A63 Castle Street Improvements, Hull
Environmental Statement

Volume 3 Appendix 12.1
GEOLOGY AND SOILS –
GROUND CONTAMINATION ASSESSMENT

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A63 Castle Street Improvements, Hull

Environmental Statement

Appendix 12.1 Ground Contamination Assessment

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1 Introduction

1.1 A63 Castle Street Improvements, Hull

1.1.1 Highways England is proposing to improve approximately 1.5 km of the A63 Castle Street between Ropery Street and the Market Place/Queen Street junctions (the Scheme). The route currently experiences congestion, particularly around the Mytongate Junction, due to the volumes of traffic and traffic signals (traffic lights).

1.1.2 This report provides an assessment on the potential ground contamination and ground gas conditions within the Scheme area[1], together with an assessment of significant pollutant linkages.

1.2 Terms of reference

1.2.1 Mott Macdonald Sweco Joint Venture (MMSJV)[2] were appointed in January 2013 under the Project Support Framework (PSF) to undertake the preliminary design of the preferred option for the Scheme.

1.2.2 This Ground Contamination Assessment presents an interpretation of the results of ground investigation works completed for the Scheme in 2013 by Geotechnics Limited (appointed through MMSJV), supplemented with the results of additional ground investigation works in 2015 by ESG (appointed through Balfour Beatty).

1.2.3 Reference should also be made to the following reports:

- Factual Ground Investigation Report compiled by Geotechnics Limited (Geotechnics, 2013)
- Addendum to Factual Report for Ground Investigation Report hereby referred to as the Addendum (Geotechnics, 2014)
- Factual Reports for ground investigations by ESG at Main Site, Princes Quay Footbridge, Trinity Burial Ground and Garrison Road (ESG 2016a to 2016d).

1.2.4 These reports include copies of the exploratory hole logs and field monitoring data. These have not been duplicated in this report.

[1] For this report, the potential sources of contamination within a 200m zone of the A63 mainline have been considered.

[2] From April 2016 Grontmij was rebranded Sweco and MMG JV become MMS JV (Mott Macdonald Sweco Joint Venture)

2 Existing information

2.1 Previous reports

2.1.1 Previous surveys and reports have been carried out and complied over the Scheme's history, which have informed the development of the current preferred option.

2.1.2 In 1994 Allied Engineering & Geotechnics (AEG) carried out a site investigation along the A63 Castle Street which was detailed in the Ground Investigation Report (AEG, 1994). The associated Geotechnical Interpretative Report for this Scheme was published in 1995 by Acer (Acer, 1995).

2.1.3 Other reports summarising the environmental information relevant to the Scheme are as follows:

- Preliminary Sources Study Report (PSSR) (PF, 2009a)
- Environmental Assessment Report (EAR) (PF, 2010)
- Environmental Statement Scoping Report (MMGJV, 2013)
- Ground Investigation Report (MMGJV, 2014a)
- Factual Report, Main Site GI (ESG, 2016a)
- Factual Report, Princes Quay (ESG, 2016b)
- Factual Report, Trinity Burial Ground (ESG, 2016c)
- Factual Report, A63 Garrison Road (ESG, 2016d)

2.1.4 An Envirocheck Report, (Landmark Information Group, 2013) was obtained in January 2013. This report confirmed that information summarised in the reports detailed above is still current.

2.1.5 The principal reports which were reviewed during the preparation of this report together with other relevant supporting information are referenced in Section 9 of this report.

2.2 Environmental setting

Geology

2.2.1 Existing information from both geological maps and historical site investigations indicates that made ground is present across the Scheme area and is likely to be present in many different forms associated with the previous industrial uses, historical structures, the docks and the burial ground.

2.2.2 Geological maps and site investigations indicate that the Scheme area is immediately underlain by made ground over superficial deposits of the Quaternary

Period. The Scheme area is underlain by a series of estuarine alluvium deposits (including peat), which are further underlain by glacial deposits.

2.2.3 Beneath the Scheme area the bedrock comprises Cretaceous Chalk of the Burnham Chalk Formation. This unit is typically in the region of 100m to 150m thick and is predominantly thinly bedded and characterised by continuous tabular and lenticular flints.

Hydrogeology & hydrology

2.2.4 The superficial deposits comprise made ground, estuarine alluvium and glacial deposits. They are classed as 'unproductive strata' (by the Environment Agency) with negligible significance for water supply or river baseflow. The underlying chalk is classed as a Principal Aquifer (strata that have a high intergranular and/or fracture permeability, meaning that they usually provide a high level of water storage and may support water supply and/or river base flow on a strategic scale).

2.2.5 The Scheme area is situated within a Groundwater Protection Zone Total Catchment Zone 3. There are four groundwater abstractions for commercial use within 4km of A63 Castle Street, two of which lie within 1km of the Scheme.

2.2.6 Groundwater monitoring from the previous site investigations (Acer, 1995) indicated that groundwater levels vary significantly from 0.2m to 13.8m below ground level (mbgl) across the Scheme area. Typically, groundwater would be expected to be present within 1.5m to 5m of the ground surface in both the chalk and superficial deposits.

2.2.7 The nearest surface watercourses are the Humber Estuary, located to the south of the Scheme area, and the River Hull to the east. Both rivers have flows which are subject to tidal influence.

2.2.8 Also within the Scheme area are the Railway Dock and Humber Dock Marina, directly south of the A63, and the Albert Docks are located to the south, adjacent to the Humber Estuary.

2.2.9 There are no surface water abstractions within the Scheme area.

River Basin Management Plan (RBMP)

2.2.10 The Environment Agency's River Basin Management Plan (RBMP, 2015) for the Humber River Basin District indicates that the Scheme area is underlain by the Hull and East Riding Chalk groundwater body, from which a significant proportion of Hull's drinking water is abstracted. The RBMP indicates that both the quantitative status and chemical status of this groundwater body are poor due to saline intrusion, and that the drinking water status is poor due to chemicals that could affect potable water supply. The predicted quantitative and chemical status for 2015 is also poor.

2.2.11 Environment Agency online data maps indicate that the Scheme lies within a Groundwater Safeguard Zone for nitrate.

2.2.12 The Middle Humber Estuary (including the River Hull) is classified as a Heavily Modified Water Body (Environment Agency, 2016) with an overall status of 'moderate' ecological potential good chemical potential.

2.3 Baseline assessment of contamination sources

2.3.1 A number of potential sources of contaminated land have been identified in and around the Scheme area.

2.3.2 There are a number of former industrial land uses within and in the vicinity of the Scheme area which have the potential to contaminate the underlying ground and/or groundwater. These include timber yards, saw mills, warehouses, Humber Works (brass and copper), lead works, pig market, railway lines, docks and various other industrial works.

2.3.3 Trinity Burial Ground also has the potential to contain elevated concentrations of contaminants including lead (from coffins), asbestos (which may have been used in coffin lining) and other contaminants associated with embalming fluids[3]. There is also the potential (albeit very small) for organisms that caused death from smallpox to be present, if human tissue has survived. Organisms that caused death from anthrax also have a potential to survive in soil.

2.3.4 Limited chemical analysis was undertaken as part of the previous investigation (AEG, 1994), however "household waste" was identified in a number of trial pits in the vicinity of Mytongate Junction and strong hydrocarbon odours and black discolouration of sub surface soils was identified north east of the burial ground.

2.4 Unexploded ordnance

2.4.1 Explosive Ordnance Threat Assessment reports were carried out by Battle Area Clearance, Training, Equipment and Consultancy International Ltd (BACTEC, 2008) to assess the risk from remaining unexploded ordnance (UXO) during bombing of the Port of Hull during World War Two.

2.4.2 The findings indicate that Hull was extensively bombed during the World War Two and there is a risk of subsurface excavations encountering UXO.

2.4.3 The available bomb census map indicates that four bombs may have fallen within the Scheme area and that an additional 16 bomb strikes were recorded within approximately 100m. There is also the possibility that there may be unexploded anti-aircraft shells in the area.

[3] e.g. creosote, arsenic, antimony, lead, mercury and copper

2.4.4 BACTEC identified areas of 'medium' risks due to potential UXO. These are located in the far west and east of the Scheme area. The remaining areas were identified as 'low' risk. Appropriate risk mitigation measures were recommended including giving Explosive Ordnance Safety and Awareness Briefings to all personnel conducting intrusive or excavation works.

3 Conceptual site model

3.1 Introduction

3.1.1 The existing desk study information was used to develop a preliminary conceptual site model (CSM). The CSM forms the basis to investigate potential contaminant linkages for the Scheme via a source-pathway-receptor model. For a **source** of contamination (or hazard) to present a risk to a **receptor** (e.g. construction worker, groundwater), they must be linked by a viable exposure **pathway**.

3.2 Potential contamination sources

3.2.1 The potential contamination sources for the Scheme include:

- Historic potentially contaminating activities within the Scheme area including: former warehousing, docks, timber yards, saw mill, metal works, the Humber works (brass and copper), Humber lead works, pig market, railway lines and the disused Trinity Burial Ground.
- Historic potentially contaminating activities within the surrounding area including: docks, dock infrastructure and warehousing, various industrial uses (e.g. chemical works, paint works, oil works), timber yards on Waterhouse Street, disused Trinity Burial Ground and various works (e.g. engineering, leather, rubber and warehousing).
- Domestic waste reported within trial pits excavated as part of the previous investigations and located in the vicinity of Commercial Road roundabout.
- Localised strong hydrocarbon odours and black discolouration of soils reported during the previous investigation, immediate north east of the burial ground.

3.3 Pathways

3.3.1 The potential pathways for the Scheme include:

- Direct contact with and ingestion of contaminated soil/soil derived dust or groundwater
- Inhalation of soil derived dust
- Inhalation of soil and groundwater vapours and ground gases
- Inhalation of asbestos fibres
- Migration and accumulation of ground gases in confined spaces

- Leaching and vertical migration of contaminants from the unsaturated made ground to the underlying superficial deposits (classed as unproductive strata but groundwater movement within these deposits is likely to occur) and Chalk (Principal Aquifer)
- Surface run-off and lateral migration via groundwater to the Humber Estuary and River Hull
- Direct contact with buried structures/services

3.4 Receptors

3.4.1 The potential receptors for the Scheme include:

- Humans – construction workers, site neighbours and end users
- Controlled Waters – shallow groundwater within the superficial deposits[4] and deeper groundwater within the Chalk (Principal Aquifer)
- Controlled Waters – Railway Docks and Humber Dock Marina to the immediate south, Humber Estuary 250m to the south of the main line and River Hull 75m to the east of the main line (all subject to tidal influence)
- Property - structures and buried services. This includes concrete structures, services and a proposed pump house constructed in the vicinity of Mytongate Junction once the ground level has been reduced
- Ecology – Trinity Burial Ground is locally designated (non-statutory) as a SNCI. Off site receptors include the Humber Estuary and the lower reaches of the River Hull, which are classified as a Ramsar site, Special Area of Conservation (SAC), Special Protection Area (SPA) and Site of Special Scientific Interest (SSSI).

[4] Superficial deposits - although classed as unproductive strata, include some permeable layers

4 Scope of investigation

4.1 Overview

4.1.1 The scope of the site investigation completed for the Scheme in 2013 (Geotechnics, 2013) and 2015 (ESG, 2016) is outlined below. Focus here is on the ground contamination and ground gas aspects of the investigation. Reference should be made to the Ground Investigation Report (MMGJV, 2014a) and ESG Factual Reports (ESG 2016a to 2016d) for information on the geotechnical aspects of the investigation.

4.1.2 Specialist Explosive Ordnance Disposal (EOD) support was provided during the 2013 investigation and is described in the Ground Investigation Report (MMGJV, 2014a). An EOD Engineer supervised the excavation of exploratory holes in areas identified with a 'medium' UXO risk. No anomalies from the magnetometer surveys carried out or suspected UXO items were identified during the ground investigation.

4.1.3 Before the commencement of the ESG (2016) intrusive works cone magnetometer penetration tests were undertaken at the exploratory hole locations to confirm the absence of detectable unexploded ordnance (ESG 2016a).

4.2 Schedule of exploratory holes

4.2.1 A number of ground investigation techniques were used during the investigation in 2013 and 2016, as outlined in Table 4.1 and Table 4.2. Exploratory holes in **bold** are located within the boundaries of the proposed road layout. All other exploratory holes are outside of these boundaries.

Table 4.1: Exploratory holes (Geotechnics, 2013)

Type	Exploratory hole number
Borehole (BH)	**BH01**, BH02, BH03, **BH04**, BH05, **BH06**, **BH07**, BH08, **BH09**, BH10, **BH11**, **BH12**, **BH13**, **BH14**, **BH15**, **BH16**, **BH16A**, BH17, **BH18**, **BH18A**, BH19, **BH19A**, BH20, BH21, BH21A, BH22, **BH23**, BH24, BH25, BH26, BH27, BH28, BH29, BH30, BH30A, BH32, BH33, BH34, BH35, **BH36**, BH37, BH38, BH39, BH40, BH40A, BH41, BH41A, BH42, BH43, BH44, BH45, BH46, BH47
Static cone penetration test (SCPT)	SCPT01, SCPT02, SCPT03, SCPT04, SCPT05, **SCPT06**, **SCPT07**, **SCPT08**, **SCPT09**, SCPT10, **SCPT11**, SCPT12, **SCPT13**, **SCPT14/1**, **SCPT14/2**, SCPT15, SCPT16, SCPT17, **SCPT18/1**, **SCPT18/2**, **SCPT19**, SCPT20, **SCPT21**, **SCPT22**, SCPT23, SCPT24A, SCPT24B, SCPT24C, **SCPT25**, SCPT26, SCPT27, SCPT28, SCPT29, **SCPT30**, SCPT31, **SCPT32**, SCPT33, SCPT34, SCPT35
Window sample (WS)	**WS01**, **WS02**, **WS03**, **WS04**, **WS05**, WS06, WS07, **WS08**, WS09, WS10, WS10A, WS11, WS12, WS12A, **WS13**, **WS14**, **WS16**, WS17, WS18, WS19, WS20, WS21, WS22, WS23, WS24, WS25, **WS26**
Trial pit (TP)	**TP04**, **TP05**, **TP05A**, **TP11**, TP13, **TP14**, TP16, TP18, TP18A

Type	Exploratory hole number
Self-boring pressuremeter test (SBP)	**SBP01**, SBP02, SBP03, **SBP04**
Archaeological SCPTs	A01, A02, A03, A04, A04A, A05, A06, A06A, A07, A08, A09, A09A, A10, A10A

Table 4.2: Exploratory holes (ESG, 2015)

Type	Exploratory hole number
Cable Percussion Borehole (BH)	BH302, BH303, BH306, BH307, BH308, BH309BH403, BH404, BH405, BH406, BH407, BH408, BH401, BH412, BH417
Cable Percussion Boring extended by Rotary Core Drilling (BHRC)	BH304, BH310, BH402, BH413, BH414, BH415, BH416, BH501, BH502, BH503
Sonic Drilling (SD)	BH301, BH305, BH411
Trial Pit (TP)	TP601, TP602, TP603, TP604
Dynamic Sampling (DS)	WS401, WS402, WS403, WS404
Road Pavement Coring (RPC)	CR2, CR3, CR4, CR5, EB3, EB4, WB1, WB2, WB3, WB4
Road Cores (RC)	PC01, PC02, PC03, PC04, PC05, PC06, PC07, PC08, PC09, PC10, PC11, PC12, CP13, PC14, DCP04

4.3 Soil analysis for potential ground contamination

4.3.1 To obtain site specific data on potential contaminated land risks in the vicinity of the Scheme area, representative soil samples were collected from exploratory holes and scheduled for chemical analysis. Soil samples were scheduled for a combination of analysis as detailed in Table 4.3.

Table 4.3: Soil analysis standard & extended suites

Analysis	Number of samples		
	Made ground (including topsoil)	Natural strata	Total
Soil Suite[A]	167	75	242
Metals Suite[B]	1	-	1
Ove Arup & Partners Suite E1, E3, E4 and E9[C]	39	18	57
Ove Arup & Partners Suite E15[D]	39	16	55
Ove Arup & Partners Suite E2[E]	19	1	20

Analysis	Number of samples		
	Made ground (including topsoil)	Natural strata	Total
Ove Arup & Partners Suite E5[F]	13	10	23
Ove Arup & Partners Suite E10[G]	7	6	13
Asbestos Screen	169	17	186
Asbestos Identification	13	-	13
Speciated Total Petroleum Hydrocarbons (TPH-CWG)	74	12	86
Banded Total Petroleum Hydrocarbons (TPH) [E]	93	63	156
Benzene, Toluene, Ethylbenzene, Xylene (BTEX)	74	12	86
Volatile Organic Compounds (VOC)	53	7	60
Semi Volatile Organic Compounds (SVOC)	53	7	60
Fraction of Organic Carbon (FOC)	32	42	74
Polychlorinated Biphenyls (PCB)	53	8	61
Waste Assessment Criteria (WAC)	27	15	42
Leachability Analysis (Suite)[F]	31	6	37

[A] Soil Suite: Moisture Content @ 40oC and 105oC, metals (As, B, Cd, Cr, Cr III, Cr VI, Cu, Pb, Hg, Ni, Se, Zn), pH, total cyanide, free cyanide, sulphate, phenols, polycyclic aromatic hydrocarbons (PAH)

[B] Metals (As, B, Cd, Cr, Cr III, Cr VI, Cu, Pb, Hg, Ni, Se, Zn)

[C] Ove Arup Suite E1, E3, E4 and E9: asbestos, total organic carbon, metals (As, Sb, Be, B, Cd, Cr, Cr VI, Cu, Pb, Mn, Hg, Mo, Ni, Se, V, Zn), pH, cyanide, phenol, PAH, BTEX, TPH split (aliphatic >C_8-C_{10}, >C_{10}-C_{12}, >C_{16}-C_{21}, >C_{21}-C_{35}, >C_{16}-C_{35}, >C_{35}-C_{44}, aromatic >C_8-C_{10}, >C_{10}-C_{12}, >C_{16}-C_{21}, >C_{21}-C_{35}, >C_{16}-C_{35}, >C_{35}-C_{44})

[D] Ove Arup Suite E15: VOC

[E] Ove Arup Suite E2: Asbestos screen and ID

[F] Ove Arup Suite E5: VOC and SVOC

[G] Ove Arup Suite E10: Speciated phenols[H] TPH split as C_8-C_{10}, C_{10}-C_{12}, C_{12}-C_{16}, C_{16}-C_{21}, C_{21}-C_{35}, C_{35}-C_{40}

[I] Leachability Suite: pH, metals (As, B, Cd, Cr, Cr III, Cr VI, Cu, Pb, Hg, Ni, Se, Zn), sulphate, sulphide, sulphur, phenols, total cyanide, free cyanide, PAH, TPH

4.3.2 All soil samples were labelled and stored in cool boxes, prior to being sent under Chain of Custody to Scientific Analysis Laboratories (SAL) for the 2013 investigation and to ESG laboratory for the 2015 investigation, both MCERTS and UKAS[5] accredited laboratory. When selecting samples for analysis, consideration was given to the need to achieve representative chemical characterisation of soil and groundwater across the Scheme area and specific assessment where visual and olfactory observations were suggestive of contamination.

[5] MCERTS is the Environment Agency's Monitoring Certification Scheme which is a designed to provide confidence in monitoring data. United Kingdom Accreditation Service (UKAS) is the national body which assesses testing laboratories against internationally agreed standards and underpins the MCERTS.

4.3.3 All results of chemical analysis of soil samples are included in Appendix A.

4.3.4 Representative soil samples were collected from exploratory holes as part of the intrusive works undertaken between 5 July and 30 August 2013 for the Geotechnics investigation and between 13 May 2015 and 25 January 2016 for the ESG investigation.

4.3.5 Soil samples[6] from the Geotechnics 2013 site investigation were screened using a Photo-Ionization Detector (PID) to assess the presence of volatile organic vapours, potentially as a result of hydrocarbon fuel or other volatile organic contaminants.

4.4 Water monitoring and analysis for potential contamination

4.4.1 As part of the investigation, groundwater and surface water monitoring rounds were completed by Geotechnics during the 2013 works, with samples scheduled for analysis as detailed in Table 4.4. **Round 1** took place between 1 and 3 October; **Round 2** between 21 and 24 October and **Round 3** between 16 and 18 December 2013. In addition, preliminary groundwater monitoring was undertaken in August and September 2013 (**Preliminary Round 1** and **2**) to provide additional water quality information in the vicinity of the pump test. During the pump test additional groundwater and surface water results were also obtained (**Pump Test**). No groundwater samples were collected as part of the 2015/6 ESG works with groundwater levels only recorded.

Table 4.4: Groundwater and surface water analysis suites

Analysis	Groundwater (superficial)	Groundwater (Chalk)	Surface water
Water Suite[A]	90	30	26
Ca, Mg, K, Na,	90	31	26
Fe (total and dissolved), Mn (total and dissolved)	87	26	12
Nitrite, nitrate, ammoniacal nitrogen, sulphide, sulphate, sulphur, chloride, TDS, EC	90	31	26
Total alkalinity	-	9	20
Banded Total Petroleum Hydrocarbons (TPH) [B]	70	25	26
Speciated Total Petroleum Hydrocarbons (TPH-CWG)	21	6	-
Benzene, Toluene, Ethylbenzene, Xylene (BTEX)	32	8	-
Volatile Organic Compounds (VOC)	15	3	-
Semi Volatile Organic Compounds (SVOC)	15	3	-

[6] Collected from all window sample boreholes, trial pits (except TP13) and selected boreholes

Analysis	Groundwater (superficial)	Groundwater (Chalk)	Surface water
Polychlorinated Biphenyls (PCB)	9	2	-

[A] Metals (As, B, Cd, Cr, Cr III, Cr VI, Cu, Pb, Hg, Ni, Se, Zn), pH, total cyanide, free cyanide, total phenols, PAH
[B] TPH split as C_8-C_{10}, C_{10}-C_{12}, C_{12}-C_{16}, C_{16}-C_{21}, C_{21}-C_{35}, C_{35}-C_{40}

4.4.2 All water samples were labelled and stored in cool boxes, prior to being sent under Chain of Custody to Scientific Analysis Laboratories (SAL), an MCERTS and UKAS accredited laboratory. All chemical analytical results for water samples are included in **Appendix A**.

4.4.3 During each full monitoring round across the Scheme, in-situ parameters including pH, Temperature, Specific Conductivity, Dissolved Oxygen (DO) and Oxygen Reduction Potential (ORP) were also measured in groundwater and surface water samples using a multimeter. Multimeter readings were not recorded during the partial monitoring rounds. Surface water samples and associated multimeter readings were only monitored during the second round. A summary of multimeter ranges recorded during the investigation are presented in Appendix B. Full records are provided in the Factual Ground Investigation Report (Geotechnics, 2013) and Addendum (Geotechnics, 2014).

4.4.4 Slight/faint sulphurous odours were noted in groundwater from BH12, BH19A, BH20, BH22, BH24-BH27, BH29, BH37, BH38, BH44, BH47, SBP02, WS01, WS03, WS10A and WS20. No other hydrocarbon sheens or odours were reported.

4.5 Ground gas monitoring and analysis

4.5.1 Ground gas monitoring was undertaken across the Scheme during the second and third Geotechnics groundwater monitoring round (21 to 24 October and 16 to 18 December 2013 respectively) following completion of the intrusive works. In addition, ground gas monitoring was undertaken throughout the intrusive works from selected wells.

5 Summary of ground conditions

5.1 Geology

5.1.1 The geology in the area of the Scheme is complex with multiple layers of superficial deposits overlying the chalk. Different units have widely varying permeability and strengths and are not exclusively continuous layers.

Made ground

5.1.2 Made ground, both granular and cohesive, has been recorded across the full extent of the Scheme area. The thickness of the made ground is variable, with thicknesses ranging from a minimum of 0.3m to a maximum of 13m.

5.1.3 Made ground is present in the most significant thicknesses adjacent to the Humber Dock Marina, although significant thicknesses are also present in the vicinity of Mytongate Junction and at Princes Quay. Trial pits have identified old walls, floors and foundations, old service pipes and an old brick culvert within the made ground between 0.5m and 2.2m depth.

Alluvium

5.1.4 Cohesive alluvium is present beneath made ground across the Scheme area and is typically described as very soft to firm slightly sandy clay and silt with some peat and organics. These deposits vary in thickness between 0.5m and 11.6m.

5.1.5 Granular alluvium is also present, mainly towards the eastern extent of the Scheme area and at the location of the Princes Quay pedestrian, cycle and disabled user bridge, beneath cohesive alluvium. These deposits are described as silty gravelly sand and sandy gravel and vary in thickness between 0.05m and 13.6m, with maximum thicknesses recorded in the area of the Humber Dock Marina.

5.1.6 Layers of relic peat, described as firm clayey pseudo-fibrous peat, and pockets of organic material have been identified within the alluvium deposits. Typically, peat was encountered in the central and western areas of the Scheme and varied in thickness between 0.1m and 5m, encountered at depths ranging from 2.5 mbgl to 22.6 mbgl.

Glacial deposits

5.1.7 Glacial till is present directly below the alluvium, and extends under the majority of the Scheme area, with the exception of the area of the Humber Dock Marina, where it is absent. The glacial till is described as firm to stiff slightly sandy gravelly clay. The till varied in thickness between 0.4m and 6.75m and was encountered at a minimum depth of 8.2 mbgl and a maximum depth of 23.5 mbgl.

5.1.8 Glaciolacustrine deposits, described as firm to stiff slightly sandy clay, were encountered typically underlying the till. These deposits were encountered at a minimum depth of 13.3 mbgl and a maximum depth of 33.6 mbgl and vary in thickness between 0.6m and 9.7m, typically thinning towards the east of the Scheme area.

5.1.9 Fluvio-glacial deposits, described as silty gravelly sand and sandy gravel, overlay the bedrock across the Scheme area, with greatest thicknesses towards the east. Deposits vary in thickness between 0.96m and 9.6m and were encountered at depths ranging from a minimum of 19.0 mbgl and a maximum of 33.6 mbgl.

Chalk

5.1.10 The underlying bedrock is the Burnham Chalk Formation, encountered at depths ranging between a minimum of 18.63 mbgl and a maximum of 33.6 mbgl. This unit is typically 100m to 150m thick. Table 5.1 summarises the general strata present beneath the Scheme area.

Table 5.1: Summary of geological strata

Stratum	Unit	Notes
Made Ground	Cohesive *Clay and ash fill*	Variable compositions across the scheme
	Granular *Gravel of brick, concrete, mixed natural rock*	
Superficial - Alluvium	Cohesive Alluvium *Clay and silt*	Continuous
	Granular Alluvium *Sand and gravel*	Not found to be present west of Mytongate Junction
	Peat & Organic Lenses	Discontinuous Lenses Typically encountered as firm consolidated material
Superficial - Glacial	Glacial Till *Sandy gravelly clay*	Continuous west of Mytongate and potentially discontinuous further east
	Glacial Lacustrine *Laminated clay and silt*	Continuous layer to the west of Mytongate, and discontinuous further east
	Fluvial Glacial *Chalk gravel with sand*	Relatively continuous
Bedrock	Chalk	Continuous, weathered in upper few meters, undulating rock head level.

5.2 Groundwater

5.2.1 Groundwater levels were monitored during the site investigations and during the subsequent monitoring rounds undertaken following completion of intrusive works (by both Geotechnics and ESG) (including during the Chalk pumping test undertaken in December 2013, refer to Pumping Test Report (MMGJV, 2014c)).

5.2.2 During drilling, groundwater was encountered at depths ranging between 2.0 mbgl and 6.5 mbgl within the made ground, between 2.4 mbgl and 25.25 mbgl in the superficial deposits and between 23.15 mbgl and 33.6 mbgl in the chalk bedrock. Groundwater within the chalk is under sub artesian conditions, and groundwater typically rose by 20m where encountered.

5.2.3 Groundwater encountered within the made ground is typically laterally discontinuous and more representative of perched pockets of groundwater resting above more cohesive material within the made ground.

5.2.4 Groundwater within the superficial deposits is typically encountered within the more granular deposits, and is generally confined by overlying cohesive deposits, which act as aquitards. The degree of leakage between aquifer units varies across the Scheme area, and depends on the thickness and permeability of the more cohesive deposits. Groundwater levels typically range between -0.5m Above Ordnance Datum[7] (AOD) and 1.5m AOD and in some units, are subject to a small tidal influence.

5.2.5 A stronger tidal influence is apparent in the granular alluvium present in the eastern part of the Scheme area. This may be because the underlying cohesive deposits are thinner than further to the west and/or possibly because of a hydraulic connection with the River Hull.

5.2.6 A strong tidal influence is also evident within the fluvio-glacial deposits at the base of the drift, with rest water levels ranging between -0.5m AOD and 2.5m AOD. This aquifer unit is in hydraulic continuity with the underlying chalk aquifer.

5.2.7 The Chalk is confined by the overlying cohesive deposits. Groundwater levels are typically between -1.5m AOD and 2.5m AOD, similar to those in the superficial aquifer units, and are subject to a strong tidal influence from the Humber Estuary. Recent groundwater level monitoring data shows that Chalk water levels have fluctuated by up to 4.0m (which coincided with the spring tide and tidal surge event on the 27 November 2013), although fluctuations are more typically around 1.5m to 2.0m. The lag time is generally between 50 and 65 minutes when related to the tides in the Humber Estuary (Albert Dock).

5.2.8 Where groundwater was encountered during drilling, this is detailed on the exploratory hole logs in the Ground Investigation Report (Geotechnics, 2013 -

[7] Refers to height above mean sea level

Appendices 4, 6 and 7) and ESG (2016a to 2016d). Details on groundwater monitored during subsequent visits are also provided in the Ground Investigation Report (Geotechnics, 2013 - Appendices 10 and 11), Addendum (Geotechnics, 2014 – Appendix 1) and ESG (2016a to 2016d – Appendix B).

5.2.9 Groundwater level monitoring data from the 2013 Geotechnics site investigation is presented and commented on in the Groundwater Report (MMGJV, 2014b) and the Pumping Test Report (MMGJV, 2014c). Aquifer property data based on permeability tests and the chalk pumping test are also provided in these reports.

5.3 Ground gas

5.3.1 The results of ground gas monitoring are summarised in Appendix C. Full field records are provided in the Ground Investigation Report (Geotechnics, 2013 – Appendix 10) and Addendum (Geotechnics, 2014 – Appendix 1). No ground gas monitoring was undertaken for the ESG (2016) investigation.

5.3.2 An overview of the key results and observations is given in Table 5.2 below.

5.3.3 Gas samples from selected boreholes were taken for bulk gas analysis by Environmental Scientifics Group (Appendix D) and isotope analysis was undertaken by RadioCarbon Dating (Appendix E) to establish the potential source of the measured methane concentrations.

5.3.4 In addition, selected groundwater samples were analysed by Environmental Scientifics Group (Appendix F) for concentrations of dissolved methane.

5.3.5 A continuous gas monitor (GasClam) was also installed in BH28 and BH30 for one week to assess potential fluctuations in methane concentrations (e.g. due to atmospheric pressure or tidal influence). This report is provided in the Addendum (Geotechnics, 2014 – Appendix 2).

Table 5.2: Key ground gas results and observations

Exploratory hole	Max CH_4 (% by volume)	Max CO_2 (% by volume)	Notes / observations
Ground gas measurements – during intrusive investigation			
BH30	30	NR	Significant gas flow rate encountered during drilling, causing groundwater to bubble. Flow rate subsided after approximately two hours and CH_4 not recorded above detection limits as the hole was cased through the alluvium.
BH30A	32.8	NR	BH30A installed to replace BH30. Significant gas flow rate was encountered at 10.7 mbgl (organic rich, sandy silt), causing groundwater to bubble. After 24hrs, CH_4 recorded at

Exploratory hole	Max CH_4 (% by volume)	Max CO_2 (% by volume)	Notes / observations
			25.7 % and bubbling of groundwater still apparent. BH30A grouted with a bentonite-grout mix
Ground gas measurements – spot monitoring during intrusive investigation			
BH05	11.9	1.1	Response zone with the Alluvium (6.0 - 10.0 mbgl)
BH06	86.8	2.2	Response zone with the Clay (17.0 - 21.0 mbgl)
BH07	2.00	0.90	Response zone with the Alluvium (4.0 - 8.0 mbgl)
BH12	35.00	1.60	Response zone with the Alluvium (5.3 - 8.3 mbgl)
BH25	78.60	8.80	Response zone with the Glacial Till (14.5 - 17.2 mbgl)
BH26	61.80	8.30	Response zone with the Alluvium (13.5 - 15.5 mbgl)
BH27	73.80	2.20	Response zone with the Alluvium (6.2 – 10.2 mbgl)
BH28	65.00	8.40	Response zone with the Glacial Till (13.5 - 17.0 mbgl)
BH30	39.70	2.60	Response zone with the Alluvium/Peat (11.8 - 14.8 mbgl)
BH33	8.30	0.50	Response zone with the Chalk (28.5 – 40.5 mbgl)
BH37	0.10	2.10	Response zone with the Alluvium (14.0 – 18.0 mbgl)
BH43	0.10	0.70	Response zone with the Sand (12.0 - 17.0 mbgl)
BH44	0.90	2.00	Response zone with the Alluvium (12.5 – 15.5 mbgl)
BH46	2.10	0.30	Response zone with the Sand & Gravel (10.8 - 13.5 mbgl)
BH47	2.80	1.40	Response zone with the Peat (12.0 – 15.0 mbgl)
WS01	2.00	0.30	Response zone with the Clay/Silt (3.0 – 5.0 mbgl)
Bulk gas analysis by Environmental Scientifics Group (ESG)			
BH26	28	2.5	Lower concentrations recorded than field measurement
BH27	8.7	0.42	Lower concentrations recorded than field measurement
BH28	8.0	4.8	Lower concentrations recorded than field measurement
BH30	5.8	1.04	Lower concentrations recorded than field measurement
SBP02	<0.02	0.04	Lower concentrations recorded than field measurement
Gas isotope analysis by RadioCarbon			
BH30	-	-	C_{14} analysis indicated that CH_4 is generated from material (e.g. peat) which is approximately 3,000 years old. The stable isotope value is characteristic of biogenically produced methane, again indicating that the peat and organic-rich alluvium deposits are the source of this methane.

Exploratory hole	Max CH_4 (% by volume)	Max CO_2 (% by volume)	Notes / observations
GasClam – continuous monitoring			
BH28	7.2	5.2	Following gas purge and recovery of the well, no significant recovery of CH_4 or CO_2 concentrations over 2 hours. The well response zone is below the water table so slow gas recovery is expected. No fluctuation in CH_4 / CO_2 concentrations evident due to barometric or tidal influence.
BH30	0.9	0	As above
Exploratory hole	**CH_4 ppm (dry air)**	**CH_4 mg/L (aqueous)**	**Notes / observations**
Groundwater - dissolved methane analysis			
BH26	8,944	10.9	-
BH27	18,952	15.1	-
BH28	11,046	13.2	-
BH30	19,994	17.7	-

Key : BH: Borehole, WS: Window Sample, SBP: Self Boring Pressuremeter, NR: Not Recorded

5.4 Field observations

5.4.1 The results of the headspace screening of soil samples using a PID are included in the exploratory hole logs in the Ground Investigation Report (Geotechnics, 2013 - Appendices 4, 5 and 6). Results ranged from <0.1 - 196 ppm and were typically recorded <0.1 ppm. Readings recorded above the detection limit (>0.1 ppm) are listed in Table 5.3.

Table 5.3: Headspace (PID) readings recorded >0.1 ppm

Exploratory hole	Depth (mbgl)	PID reading (ppm)	Lithological description
TP11	1.6	89.1	Soft to firm grey sandy CLAY (Made Ground).
TP11	2.2	32.5	Soft laminated grey slightly sandy CLAY.
WS10	1.6	5.0	Soft to firm brown slightly gravelly CLAY (Made Ground).
WS12	1.5	196	Soft to firm brown slightly sandy gravelly CLAY (Made Ground).

Exploratory hole	Depth (mbgl)	PID reading (ppm)	Lithological description
WS25	1.83	24	Soft brownish grey slightly sandy slightly gravelly CLAY (Made Ground).
WS25	2.0	68.1	Soft brownish grey slightly sandy slightly gravelly CLAY (Made Ground).
WS26	1.2	138	Firm dark brown mottled black slightly sandy CLAY (Probable Made Ground).

Key: TP: Trial Pit, WS: Window Sample

5.4.2 Olfactory (i.e. odours) and/or visual indications of contamination were observed during the site investigation in isolated locations, as summarised in Table 5.4. The contamination observed typically comprised hydrocarbon odours and staining. Free product was not identified in any of the locations.

5.4.3 Fragments of suspected asbestos tile, confirmed with laboratory analysis, were recorded in one location (TP18).

5.4.4 A pool of mercury was identified on a body in the Trinity Burial Ground.

Table 5.4: Summary of field observations and contamination

Location	Depth (mbgl)		Lithological description	Observation	PID reading (ppm)
	From	To			
BH32	1.40	1.45	White greyish brown and black slightly sandy clayey angular GRAVEL (Made Ground).	Slight hydrocarbon odour	NR
BH33	0.20	1.85	Black slightly silty slightly gravelly SAND with some ash.	Slight hydrocarbon odour	NR
BH41	8.10	9.80	Dense black sandy GRAVEL (Made Ground).	Hydrocarbon odour	NR
TP11	1.30	1.50	Stiff brown mottled grey slightly sandy to sandy slightly gravelly CLAY (Made Ground).	Slight hydrocarbon odour	<0.1
TP11	1.50	2.00	Soft to firm grey sandy CLAY (Made Ground)	Strong hydrocarbon odour	89.1
TP11	2.00	2.90	Soft laminated grey slightly sandy CLAY.	Slight hydrocarbon odour	32.5
TP11	2.90	3.60	Soft laminated dark grey slightly sandy CLAY.	Slight hydrocarbon odour	<0.1
TP18	0.25	0.70	Brown gravelly fine to medium sand with occasional ash and shell fragments (Made Ground)	Suspect asbestos tile fragments	<0.1

Location	Depth (mbgl)		Lithological description	Observation	PID reading (ppm)
	From	To			
WS25	1.83	2.80	Soft brownish grey slightly sandy slightly gravelly CLAY (Made Ground).	Strong hydrocarbon odour	68.1
WS25	3.15	3.15	Soft laminated brown slightly sandy CLAY.	Hydrocarbon odour	<0.1
WS26	1.20	1.90	Firm dark brown mottled black slightly sandy CLAY (Probable Made Ground).	Slight hydrocarbon odour	138

6 Assessment criteria

6.1 Introduction

6.1.1 To put the chemical analysis and monitoring results from the fieldworks (as detailed in Section 5) into context, the data has initially been assessed in relation to several sets of legislative guidelines currently used for the characterisation of contaminated land which relate to:

- risks to human health
- risks to controlled waters
- assessment of risks from ground gas
- classification of soils as hazardous waste

6.1.2 A full hierarchy of the criteria used is provided in Appendix G, with a summary of the screening criteria and methodologies provided in the sections below.

6.2 Human health

6.2.1 In order to put the soil chemical analysis results into context, the site investigation data has initially been assessed in relation to several sets of legislative guidelines currently used for the characterisation of contaminated land and which relate to risk to human health from soil based contaminants.

6.2.2 Generic Assessment Criteria (GAC) have been generated for five types of land use as follows:

- Residential (with and without consumption of homegrown produce)
- Allotments
- Commercial
- Public Open Space – Parks
- Public Open Space – Residential

6.2.3 The selection of screening criteria takes into consideration both the proposed or current end use and the applicable regime (planning or Part 2A) for the assessment. This hierarchy has been discussed in more detail in Appendix G.

6.2.4 The CSM for the Scheme, (refer to Section 3) has been considered to ensure that the appropriate generic screening values are being used for the initial environmental assessment.

6.2.5 The soils analysis results are compared to available GACs. Where the GACs are determined based on soil organic matter (SOM) content, the SOM utilised (2.5%) was based on the results of the soil fraction of organic carbon analysis carried out

during the investigation (average actual fraction of organic carbon (FOC) of 0.049, equivalent to 3.25% SOM). Typically, made ground contained more organic material (4.47% SOM) compared to natural strata (2.42% SOM). An assumed SOM value of 2.5% was therefore considered suitably conservative and representative of made ground and natural strata.

6.2.6 The generic screening of soil results has been undertaken using the GACs for commercial land use to reflect the nature of the current site use and future Scheme.

6.2.7 Concentrations of contaminants recorded in made ground and natural soil from across the Scheme area were also screened against published UK Water Industry Research (UKWIR) guideline values (*Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites)* to ensure that appropriate materials can be selected for pipework which prevents corrosion and will not result in contamination of a drinking water supply.

6.3 Controlled waters

6.3.1 Leachability analysis provides an indication of the potential for contaminants to be mobilised from soil through leaching and impact on groundwater quality beneath the Scheme. The results of leachability analysis will be assessed alongside the results of groundwater analysis in order to provide an assessment of any potential risks to controlled waters.

6.3.2 The impact on groundwater quality (the underlying Principal Aquifer for example) has been assessed through the use of Drinking Water Standards (DWS) which are documented in The Water Supply (Water Quality) Regulations 2016 (as amended). Where an appropriate UK DWS is not available, the World Health Organisation (WHO) guidelines for drinking water quality (2011) have been used.

6.3.3 Potential impacts through a linkage between groundwater and a nearby surface water course are assessed through comparison to the Environmental Quality Standard (EQS)[8]. Surface water features in the vicinity of the Scheme area include the Railway Dock and Humber Dock Marina to the immediate south, the River Hull approximately 75m east of the main scheme line and the Humber Estuary (River Humber) approximately 250m south of the main scheme line. Comparison to the EQS has therefore been carried out as there is the potential for impact to this receptor.

[8] The nearest surface water receptors are the River Humber and River Hull which are considered by the Environment Agency to be transitional and/or coastal waters. EQS based on transitional and coastal waters have therefore been used as presented in part 2 and 3 of schedule 3 of Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015.

6.4 Ground gas

6.4.1 Potential risks associated with the generation, migration and accumulation of potentially hazardous ground gas have been assessed with regards to potential risks to:

- site workers during construction
- site neighbours
- end users

6.4.2 This includes the planned excavation works across Mytongate Junction (at least 8m depth of material to be removed) and the proposed pump house.

6.4.3 The ground gas risk assessment has been undertaken against the Wilson and Card Classification set out in C665[9] and BS8485[10] based on a commercial/industrial end use. Risks from dissolved methane in groundwater have also been considered based on research by the British Geological Society (Gooddy and Darling[11]).

6.4.4 Note that the site investigation data indicate that the recorded elevated ground gas concentrations derive from the degradation of natural deposits and not from anthropogenic sources. The assessment of ground gas results however is included in this section (Contaminated Land) for ease of reference.

6.5 Classification of waste materials

6.5.1 Where proposed works have or may require the excavation and disposal of surplus soil/fill material, it is a legal requirement to assess any material which potentially is to be discarded i.e. waste for disposal off-site.

6.5.2 There is legislation and are guidance documents which map the way forward for the appropriate classification of waste materials. MMS has summarised the process within Appendix J (Materials Management and Waste Classification Hierarchy).

6.5.3 A waste materials assessment of the available chemical data sets has been undertaken by MMS's waste management specialists in accordance with the three stages set out in Appendix J.

6.5.4 Stage two of the assessment (Environment Agency Technical Guidance WM3[12] - Hazardous Properties Assessment) was undertaken using the industry recognised HazWasteOnline™ screening tool; a web-based software for classifying waste that

[9] CIRIA C665 (2007) Assessing risks posed by hazardous ground gases to buildings

[10] BS8485 (2007) Code of practice for the characterisation and remediation from ground gas in affected developments

[11] Gooddy and Darling (2005) The potential for methane emissions from groundwaters of the UK

[12] EA Technical Guidance WM3, Waste Classification, Guidance on the Classification and Assessment of Waste (1st edition 2015)

follows the latest Environment Agency guidance and European regulations. The assessment is detailed in Section 7.4.

6.6 Risk assessment

6.6.1 Where contaminant sources have been identified based on the above assessment criteria, a risk assessment has then been undertaken using the source-pathway-receptor model. This is considered best practice methodology to evaluate environmental risks arising from potential land contamination, according to Department for Environment, Food and Rural Affairs (DEFRA) and Environment Agency guidance documentation.

6.6.2 Further details regarding the risk assessment undertaken is provided in Appendix G.

7 Findings of risk assessment

7.1 Assessment of risks to human health

Metals, inorganics and organics

7.1.1 Soil chemical analysis results have been compared to the adopted soil screening values for commercial land use as detailed in Section 7.3.1. All chemical analysis results are presented in Appendix A and generic screening tables for soils are presented in Appendix H1. A summary of soil data exceeding the criteria is summarised in Table 7.1 and Drawings 1 and 2.

Table 7.1: Generic screening of soil results

Contaminant	Screening value (mg/kg)	Screening criteria	No. of analyses	Range of concentrations (mg/kg)		Number of samples exceeding	Location & depth of maximum
				Max	Min		
Made ground							
Lead	2,300	C4SL	225	11,000	11	2	TP11 at 0.4m
Nickel	980	S4UL	225	2,700	6.5	1	SCPT24A at 0.5m
Benzo(a)pyrene	35	S4UL	225	74	<0.08	3	BH24 at 0.2m
Benzo(b) fluoranthene	44	S4UL	225	73	<0.08	3	WS12 at 0.3m
Dibenzo(a,h) anthracene	3.5	S4UL	225	7.5	<0.08	4	BH24 at 0.2m
Vinyl chloride	0.077	S4UL	96	<0.2*	<0.001	0 (4*)	Multiple

*Laboratory detection limit is greater than generic assessment criteria

7.1.2 No exceedances of the commercial soil screening values were reported in soil samples from natural strata.

7.1.3 The plots given below (Figure 1, Figure 2 and Figure 3) illustrate the range of concentrations recorded in made ground and natural strata. The number of samples recording an exceedance of the commercial soil screening values represent <4% of the soil sample dataset.

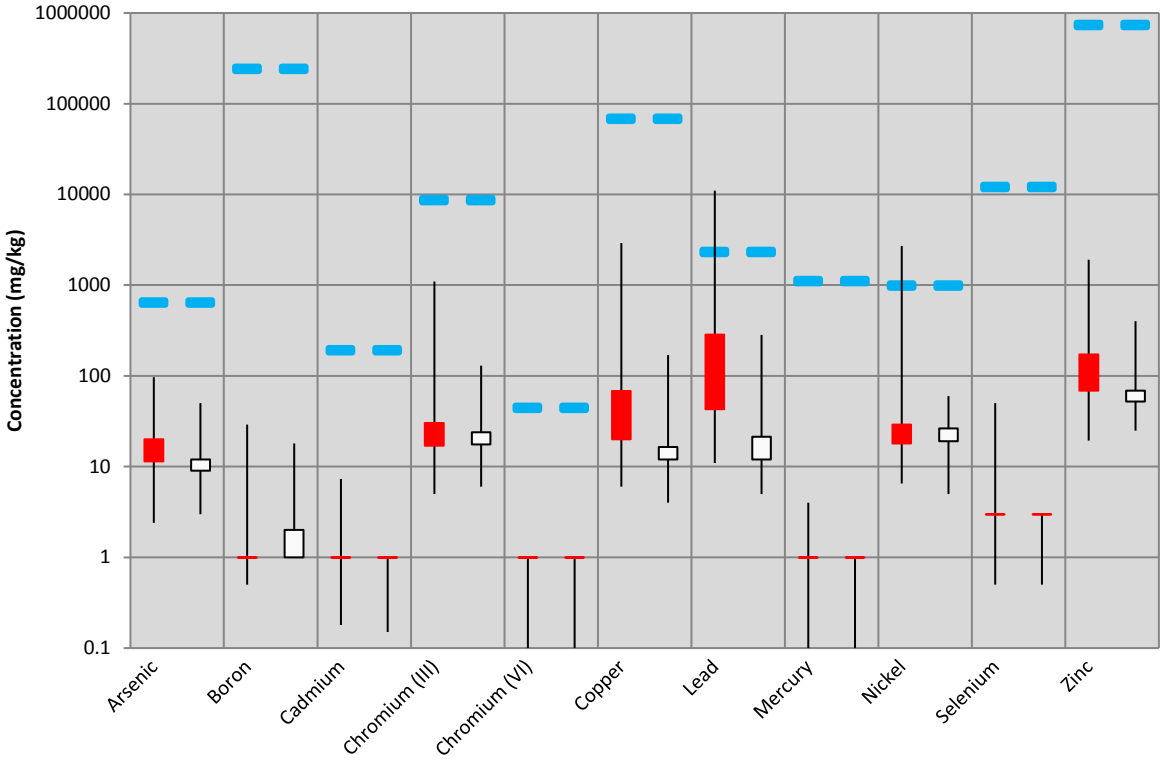
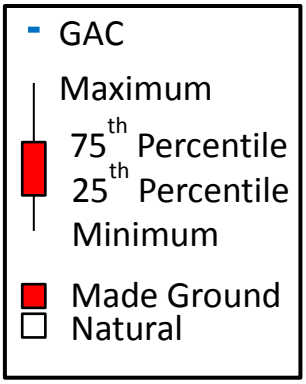


Figure 1: Range of recorded concentrations in soils (metals)



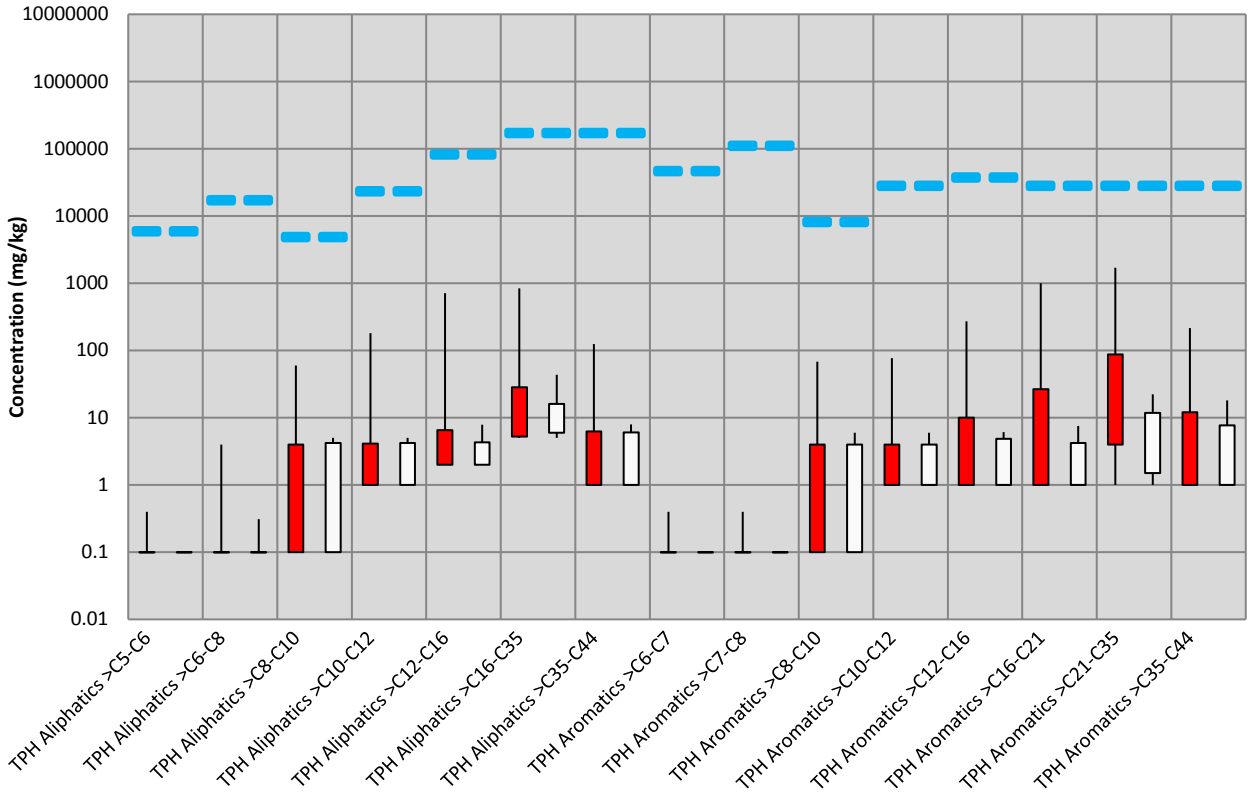


Figure 2: Range of recorded concentrations in soils (TPH)

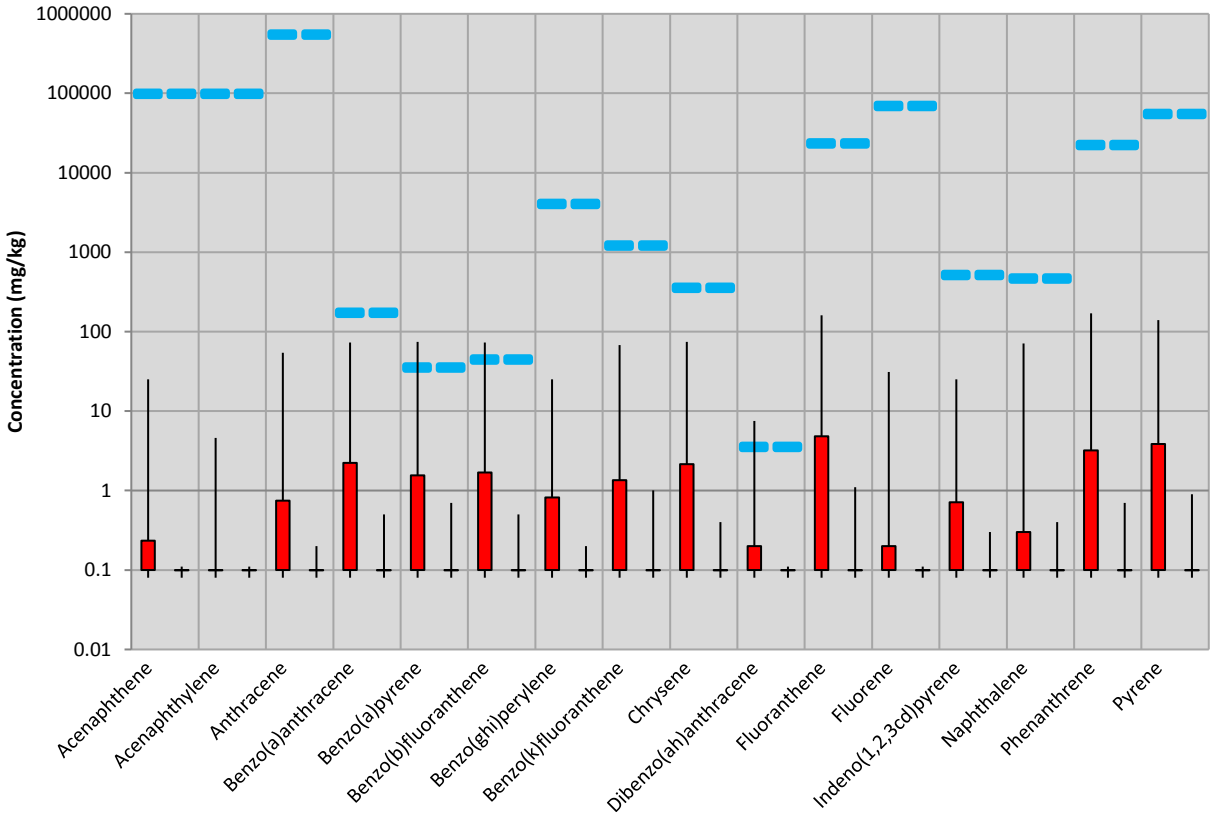


Figure 3: Range of recorded concentrations in soils (PAH)

7.1.4 Typically, exceedances of the GACs were located in the vicinity of Mytongate Junction (Drawings 1 and 2). A number of industries were historically present in the vicinity of Mytongate. Exceedances of heavy metals are reported in soil samples from shallow made ground (<1 mbgl) and are typically associated with fragments of clinker.

7.1.5 Elevated organics, (benzo(a)pyrene, benzo(b) fluoranthene and dibenzo(a,h)anthracene were reported above the commercial GACs in isolated locations. Visual and olfactory evidence of hydrocarbons was also noted (BH41, TP11, WS25) with elevated concentrations of Total Petroleum Hydrocarbons (TPHs) recorded but all below the relevant GAC.

7.1.6 Exceedances of metals (lead and nickel) were identified in SCPT15 and TP11 for lead and SCPT24A for nickel.

7.1.7 No exceedances of the GACs were identified in the results from the 2015 site investigation.

Asbestos containing materials

7.1.8 A total of 216 soil samples were screened for asbestos containing materials (ACMs). This includes 194 made ground samples and 22 samples from shallow natural strata. ACMs were identified in samples from 15 locations within made ground as illustrated on Drawings 3 and 4. The matrix and type of asbestos identified is presented in Table 7.2.

Table 7.2: Asbestos containing materials

Location	Depth (mbgl)	Material	Asbestos type	Quantification (%)	Ground cover
SCPT04	0.5	Soil, loose fibres	Chrysotile	<0.001	Grass over topsoil
BH06	2.5	Soil, loose fibres	Chrysotile	<0.001	Macadam
SCPT30	0.5	Soil, loose fibres	Chrysotile	<0.001	Grass over topsoil
WS10	0.5	Lagging	Chrysotile	**0.013**	Landscape gravel
WS12A	0.4-0.6	Soil, loose fibres	Chrysotile	**0.016**	Landscape gravel
SCPT28	0.5	Soil, loose fibres	Chrysotile	**0.022**	Grass over topsoil
WS01	1.0-1.2	Soil, loose fibres	Chrysotile	**0.013**	Grass over topsoil
SCPT14 TRENCH	0.4	Soil, loose fibres	Chrysotile	**0.042**	Grass over topsoil
TP18	0.25	Cement tile	Chrysotile	N/A	Grass over topsoil

Location	Depth (mbgl)	Material	Asbestos type	Quantification (%)	Ground cover
BH14	0.5	Soil, loose fibres	Chrysotile	<0.001	Grass over topsoil
WS20	0.25	Soil, loose fibres	Amosite	**0.018**	Grass over topsoil
BH41	3.0	Soil, loose fibres	Chrysotile	**0.033**	Grass over topsoil
BH41	9.5	Soil, loose fibres	Amosite	**0.074**	Grass over topsoil
BH46	0.5	Lagging	Chrysotile	**0.11**	Macadam
TP604	0.5	Unknown	Chrysotile	**No quantification**	Grass over topsoil

BOLD - Quantification in excess of the trigger value of 0.001 % (from research published by Institute of Occupational Medicine, 1988) or no quantification carried out.

7.1.9 Quantification was undertaken on all samples where fibres were identified in the 2014 site investigation, however no quantification was undertaken on the single sample from the 2015 site investigation where asbestos was identified. Asbestos was detected above 0.001 % fibres by mass in nine samples. The majority of positive asbestos identifications (seven) were noted in the vicinity of Mytongate Junction at depths of less than 1 mbgl.

7.1.10 Soils containing >0.1% of asbestos meet the definition of Hazardous Waste (refer to Section 7.4). This applies to BH46 (0.5m) and is also likely to apply to TP18 (0.25m) and (GR) TP604 (ES4) at 0.5m.

Drinking water supply pipes

7.1.11 Concentrations of contaminants in made ground and natural soil from across the Scheme area were screened against published UK Water Industry Research (UKWIR) guideline values (*Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites).*

7.1.12 Elevated concentrations of organics including TPH, VOCs/SVOCs and BTEX have been identified in isolated areas of made ground, exceeding the acceptable threshold for the use of polyethylene pipes.

7.1.13 Concentrations of TPH, BTEX and VOCs/SVOCs have been identified in isolated areas of natural ground, exceeding the acceptable threshold for the use of polyethylene pipes.

Human health - risk assessment summary

7.1.14 The results of the site investigation identified a number of potential risks to human health, which are summarised below:

- Elevated concentrations of heavy metals (lead and nickel) have been identified in isolated areas of shallow made ground (<1 mbgl), typically in the vicinity of Mytongate Junction
- Elevated concentrations of organics (PAH) identified in isolated areas of made ground, associated with visual and olfactory evidence of contamination
- Asbestos has been identified in localised samples of made ground
- Elevated organics within localised made ground exceed the threshold considered acceptable for the use of polyethylene water supply pipes

7.2 Assessment of risks to controlled waters

Leachability analysis

7.2.1 Leachability analysis was undertaken on 37 soil samples collected for laboratory analysis (31 from made ground and seven from natural strata). The purpose of this analysis is to assess the mobility of contaminants present within the soil, enabling the potential risk to controlled waters to be established with greater confidence.

7.2.2 The results of the leachability analysis are presented in Appendix A. The reported concentrations were compared in the first instance against DWS, as presented in the generic leachability analysis screening spreadsheet (Appendix H2a). The generic screening assessment to DWS is summarised in Table 7.3 and presented in Drawings 5 and 6.

Table 7.3: Generic screening of leachability analysis results (compared to DWS)

Contaminant	Screening value (µg/L)	Screening criteria	No. of analyses	Range of concentrations (µg/L)		Number of samples exceeding*	Location & depth of maximum
				Max	Min		
Made ground							
Arsenic	10	UK DWS	31	56	0.4	8	BH37 4.0 mbgl
Boron	1,000	UK DWS	31	1,100	<10	1	BH37 0.5 mbgl
Total Cyanide	50	UK DWS	31	4,100	<10	1	TP05 0.5-0.6 mbgl
Benzo(a)pyrene	0.01	UK DWS	31	20	<0.01	17 (26)	WS12A 0.4-0.6 mbgl
Sum of 4No. PAHs	0.1	UK DWS	31	58	<0.02	17 (18)	WS12A 0.4-0.6 mbgl
TPH (C_{10}-C_{12})	100	WHO DWS	31	150	<0.01	1	TP11 1.6 mbgl
TPH (C_{12}-C_{16})	100	WHO DWS	31	110	<0.01	1	TP11 1.6 mbgl

Contaminant	Screening value (µg/L)	Screening criteria	No. of analyses	Range of concentrations (µg/L)		Number of samples exceeding*	Location & depth of maximum
				Max	Min		
TPH (C_{16}-C_{21})	90	WHO DWS	31	280	<0.01	3	WS12A 0.4-0.6 mbgl
TPH (C_{21}-C_{35})	90	WHO DWS	31	1,200	<0.01	3	WS12A 0.4-0.6 mbgl
Natural strata							
Benzo(a)pyrene	0.01	UK DWS	6	0.41	<0.02	1 (6)	WS01 2.5-3.0 mbgl
Sum of 4No. PAHs	0.1	UK DWS	6	2.4	<0.02	1	WS01 2.5-3.0 mbgl

* Number of measurable exceedances. The number shown in brackets indicates the total number of exceedances including those recorded at laboratory detection limit that exceed the current published Generic Screening Criteria. These have not been indicated on the contaminant distribution drawing.

7.2.3 Recorded metal concentrations are typically significantly below the UK DWS, with the exception of concentrations of arsenic and boron.

7.2.4 A single marginally elevated leachable concentration (1,100 µg/l compared with the DWS of 1,000 µg/l) of boron was reported in made ground from BH37 (4.0 mbgl). Given the marginal and isolated nature, this is not considered to present a significant risk to controlled waters.

7.2.5 Elevated leachable concentrations of arsenic were reported in localised areas of made ground along the length of the scheme, although typically associated with made ground in the vicinity of Mytongate Junction.

7.2.6 Measurable, elevated leachable concentrations of hydrocarbons (PAH and TPH) were reported in made ground in localised areas. Some correlate to areas where there was evidence of hydrocarbons or elevated concentrations of hydrocarbons in soils (TP11, WS12A).

7.2.7 The majority of soil leachability exceedances recorded for benzo(a)pyrene in natural strata (refer to Table 7.3) are a result of the laboratory limit of detection exceeding the GAC. These are not considered significant and have not been considered further within the risk assessment.

7.2.8 The leachability data has also been compared to the EQS, as presented in the generic leachability analysis screening spreadsheet (Appendix H2b). The generic screening assessment to EQS is summarised in Table 7.4 and presented in Drawings 7 and 8.

Table 7.4: Generic screening of leachability analysis results (compared to EQS)

Contaminant	Screening value (µg/L)	Screening criteria	No. of analyses	Range of concentrations (µg/L)		Number of samples exceeding*	Location & depth of maximum
				Max	Min		
Made ground							
Arsenic	25	WFD 2015 Other Surface Waters	31	56	0.4	1	BH37 4.0 mbgl
Chromium VI	0.6	WFD 2015 Other Surface Waters	31	10	<3	2 (31)	TP18 0.25-0.4 mbgl
Copper	3.76	WFD 2015 Other Surface Waters	31	30	0.8	12	BH19A 1.05 mbgl
Lead	1.3	WFD 2015 Other Surface Waters	31	7	<0.3	5	SCPT20 0.5 mbgl
Mercury	0.07	WFD 2015 Other Surface Waters	31	0.17	<0.05	5	WS25 1.8-2.0 m bgl WS26 1.2-1.5 m bgl
Zinc	7.9	WFD 2015 Other Surface Waters	31	8	<2	1	SCPT18 0.6-1.0 mbgl
Total Phenols	7.7	WFD 2015 Other Surface Waters	31	12	<0.5	1	WS26 2.0-2.6 mbgl
Free Cyanide	1	WFD 2015 Other Surface Waters	31	<10	<10	1 (31)	Multiple
Anthracene	0.1	WFD 2015 Other Surface Waters	31	4.9	<0.01	6	WS12A 0.4-0.6 m bgl
Benzo(a)pyrene	0.00017	WFD 2015 Other Surface Waters	31	20	<0.01	17(31)	WS12A 0.4-0.6 m bgl
Fluoranthene	0.00063	WFD 2015 Other Surface Waters	31	31	<0.01	20 (31)	WS12A 0.4-0.6 m bgl
Natural Strata							
Chromium (VI)	0.6	WFD 2015 Other	6	<3	<3	0 (6)	Multiple

Contaminant	Screening value (µg/L)	Screening criteria	No. of analyses	Range of concentrations (µg/L)		Number of samples exceeding*	Location & depth of maximum
				Max	Min		
		Surface Waters					
Lead	1.3	WFD 2015 Other Surface Waters	6	7.9	<0.3	1	BH02 2.8 mbgl
Free Cyanide	1	WFD 2015 Other Surface Waters	6	<10	<10	0 (6)	Multiple
Anthracene	0.1	WFD 2015 Other Surface Waters	6	0.19	<0.02	1	WS01 2.5-3.0 mbgl
Benzo(a)pyrene	0.00017	WFD 2015 Other Surface Waters	6	0.41	<0.02	1 (6)	WS01 2.5-3.0 mbgl
Fluoranthene	0.00630.1	WFD 2015 Other Surface Waters	6	0.44	<0.02	2 (6)	WS01 2.5-3.0 mbgl

* Number of measurable exceedances. The number shown in brackets indicates the total number of exceedances including those recorded at laboratory detection limit that exceed the current published generic Screening Criteria. These have not been indicated on the contaminant distribution drawing.

7.2.9 Typically recorded leachable metal concentrations were below the EQS, with few exceedances. These were typically recorded in isolated locations, in made ground at depths of <1 mbgl, in the vicinity of Mytongate Junction.

7.2.10 Marginally elevated concentrations of leachable phenols (12 µg/L compared to the EQS of 7.7 µg/L) were identified in made ground from one location. Given the marginal and isolated nature, this is not considered to present a significant risk to controlled waters.

7.2.11 Elevated leachable concentrations of PAH (benzo(a)pyrene, anthracene and fluoranthene) were reported above the criteria within made ground and from two samples of natural strata. Maximum leachable concentrations of PAH were reported in made ground at the same location where elevated concentrations of benzo(a)pyrene were reported in soil (WS12A, 0.4 mbgl to 0.6 mbgl).

7.2.12 As detailed above, the limits of detection for analysis of various compounds including some PAHs, chromium VI and free cyanide exceed the screening value used for leachability analysis in samples from made ground and natural strata. These have therefore been flagged as exceeding the generic screening but are not considered significant or considered further within the risk assessment.

Groundwater analysis

7.2.13 The laboratory reports from the groundwater monitoring are included in Appendix A.

7.2.14 Groundwater samples were taken from wells installed into the underlying Principal Aquifer (Chalk) and in shallow groundwater encountered at varying depths within the superficial deposits. The results of analysis from both water bodies have been screened against DWS and EQS.

7.2.15 The generic screening tables for groundwater results in comparisons to the DWS and EQS is provided in Appendix H3a and H3b respectively. A summary of any exceedances and further discussion of these results are included in Appendix I. Recorded exceedances are shown on Drawings 9 to 16.

7.2.16 Plots given in Appendix I (Figures I.4 to I.9) also illustrate the range of concentrations of metals and inorganics in shallow groundwater within the superficial deposits and in the chalk aquifer in comparison to the EQS, DWS and average concentrations in the River Humber and River Hull (average of SW1, SW5 and SW6).

7.2.17 In addition, it is noted that the electrical conductivity of shallow groundwater exceeds 400 µS/cm[13], which may be corrosive to wrapped steel or wrapped ductile iron pipes.

Surface water analysis

7.2.18 Surface water samples were collected during the groundwater monitoring rounds. Sampling locations (SW1 – SW6) are provided as Drawings 17 and 18.

7.2.19 A summary of the generic screen of surface water results in comparison to the EQS is provided in Appendix H4 and these are also illustrated on Drawings 17 and 18.

Controlled waters - risk assessment summary

7.2.20 The results of site investigation identified a high proportion of samples exceeding the DWS and EQS assessment criteria. The key findings are summarised below:

- Elevated concentrations of PAHs and TPH recorded in shallow, perched groundwater from BH41A and SBP02. These two monitoring wells are both installed within made ground and are in areas where elevated hydrocarbons have also been identified in soils/leachability analysis (BH41A, WS12A, SCPT20)

- Copper is reported as elevated above EQS in groundwater in the majority of samples and occasionally against the DWS within the chalk and superficial

[13] microsieverts per centimetre

deposits. Comparable, elevated concentrations above the EQS have also been reported in surface water receptors in the vicinity of the Scheme

  - Leachability results suggest some localised leaching of copper from made ground in the vicinity of Mytongate Junction although this does not correspond to the locations where significantly elevated concentrations of copper were reported in groundwater

- Elevated concentrations of certain determinants have been recorded within the chalk aquifer and shallow groundwater within the superficial deposits

  - Elliot et al. (2001) and the BGS & EA[14] (2004) reported elevated concentrations of arsenic, boron, iron, manganese, sulphate and ammoniacal nitrogen across the confined Yorkshire chalk aquifer correlating with measured concentrations recorded during the investigation

  - These determinands are indicative of a reducing environment within the confined chalk aquifer and the shallow groundwater within the superficial deposits (BGS & EA, 2004). Low, negative Oxidation Reduction Potential (ORP) readings were also recorded from the groundwater in the chalk and superficial deposits (Appendix B). All ORP results are provided in Appendix 10 of the Ground Investigation Report (Geotechnics, 2013)

  - Concentrations of calcium, chromium, nickel and selenium recorded in groundwater and in surface water in the vicinity of the Scheme area are also considered to be reflective of regional concentrations of these metals (Elliot et al. (2001))

  - Ammoniacal nitrogen values were measured consistently higher within the superficial deposits than the chalk. This is likely due to the anaerobic degradation of organic material present within the superficial deposits (peat and organic-rich clay)

  - A strong tidal influence is present and saline intrusion is resulting in the mixing of fresh and saline waters. This is considered likely to account for the elevated concentrations of chloride, magnesium, sodium and sulphur across the scheme and increased electrical conductivity

- The electrical conductivity of shallow groundwater exceeds 400 µS/cm which may be corrosive to wrapped steel or wrapped ductile iron pipes. The design of any water supply pipes located beneath the water table should take this into consideration and select materials appropriately

[14] British Geological Society and the Environment Agency, Baseline Report Series: 10. The Chalk Aquifer of Yorkshire and North Humberside. Smedley, P.L., Neumann, I. & Farrell, R. 2004

7.3 Assessment of risks from ground gas

Ground gas results

7.3.1 Ground gas measurements were obtained as part of the site investigation works. Given the shallow groundwater levels across the Scheme area (typically resting at 2.0 mbgl to 3.0 mbgl), the water table generally rested above the response zone of the completed monitoring installation, where potentially gassing strata (peat and organic alluvium deposits) were targeted. This can impact ground gas measurements and may not be fully representative of actual ground gas conditions associated with the targeted strata. In addition to ground gas monitoring, measurements of dissolved methane concentrations in groundwater were therefore also recorded.

7.3.2 Elevated methane concentrations (greater than the lower explosive limit (LEL) of 5% by volume in air) were recorded from ground gas monitoring at various monitoring locations. Assuming the complete outgassing of methane from groundwater in a confined space, the methane LEL in air can theoretically be achieved from a minimum dissolved methane concentration of 1.6 mg/L (BGS, 1993[15] and Gooddy and Darling, 2005[16]). Recorded dissolved methane concentrations at the Scheme ranged from 10.9 mg/L to 17.7 mg/L. These recorded concentrations do not exceed the saturation limit[8] of 29.9 mg/L at 1 atmospheric pressure and 10°C but are in the same order of magnitude and are considered to represent appreciable concentrations of methane.

Ground gas - risk assessment summary

During construction

7.3.3 Construction activities have the potential to result in the release of hazardous ground gas which may present risks to construction site workers and site neighbours. These activities include:

- earthworks, including the removal of approximately 7.0m of confining superficial deposits within the area of Mytongate Junction
- jet grouting proposed within the superficial deposits (~ 8.0 mbgl to 11.0 mbgl) will displace a soil and grout mixture to the surface
- pumping and containment of groundwater where significant concentrations of methane and dissolved methane have been recorded
- piling through the peat and organic-rich deposits which may create pathways for ground gas to preferentially migrate to the surface.

[15] Hooker and Bannon (1993) Methane: Its Occurrence and Hazards in Construction

[16] Gooddy and Darling (2005) The Potential for Methane Emissions from Groundwaters of the UK

7.3.4 Adherence to Safe Systems of Work will be required throughout the construction works to ensure that potential risks from ground gas emissions are minimised. This will include (but not be limited to) adoption of controlled work areas, use of intrinsically safe equipment, personal protective equipment, gas monitoring and suitable siting of any mobile offices, stores or welfare units.

Post construction

7.3.5 Based on current ground gas data available from this investigation, a maximum steady state concentration of 86.8% methane (BH06) and a maximum steady state flow rate of 13.5 L/hr (WS01) was recorded. Using the modified Wilson and Card assessment criteria given in C665[17], this would represent a Characteristic Situation 4 (i.e. moderate to high risk) based on a worst case Gas Screening Value (GSV) of 11.7 L/hr. Current monitoring data indicates significant variation in ground gas conditions across the Scheme area. The maximum methane concentration and maximum flow rates were not recorded at the same location and are not generated from the same material.

7.3.6 For the maximum methane concentration reported in BH06 (86.8%), the flow rate was recorded at 8.4 L/hr (peak) which fell to <0.1 L/hr after one minute. These readings give a GSV of 0.087 L/hr which would represent a Characteristic Situation 2 (low risk). Across the Scheme area, ground gas readings typically give a GSV which would represent a Characteristic Situation 1 (very low risk) or 2 (low risk). The GSV for three locations (BH06, BH27 and BH30) were at or approached values which indicated a Characteristic Situation 3 (moderate risk).

7.3.7 The future effect on the ground gas regime due to groundwater pumping and recharging in the Mytongate Junction area is not known at this stage. There is a potential for risk to future end users (e.g. pump house maintenance staff and confined space workers) from hazardous ground gases although the current ground gas data may not reflect peak flow or future soil gas conditions.

7.3.8 The consideration of ground gas protection measures in line with current UK guidance[17, 18] is recommended for the pump house and drainage ducts/chambers where there is a potential for hazardous ground gas to accumulate within confined spaces.

7.4 Waste materials assessment

7.4.1 As detailed in Section 6.5, a waste materials assessment of the available chemical data sets has been undertaken by MMS's waste management specialists in accordance with the three stages set out in Appendix J. In summary:

[17] CIRIA Guidance C665 (2007) Assessing risks posed by hazardous ground gases to buildings

[18] BS8485 (2007) Code of practice for the characterization and remediation from ground gas in affected developments

Stage One – waste code

7.4.2 The waste materials arising from this Scheme are considered to be soil and stones. Accordingly, this waste would fall under Chapter 17 of the List of Wastes (LoW), Construction and Demolition Wastes, specifically the following Mirror Entry codes:

- 17-05-03*[19] - Soil and stones containing Hazardous substances or,
- 17-05-04 – Soil and stones other than those mentioned in 17-05-03

7.4.3 The selection of either the hazardous (17-05-03*) or Non-Hazardous (17-05-04) mirror entry code is completed at Stage Two.

Stage Two – hazardous properties

7.4.4 A total of 301 soil samples (208 made ground and 93 natural ground samples) from the 2014 and 2015 investigation were analysed for various geochemical determinands assumed appropriate for the classification of waste material (including total soil concentrations of metals, organic and inorganic contaminants).

7.4.5 All of the soil samples have been assessed in accordance with WM3 using HazWasteOnline^{tm} to determine whether the materials potentially designated for off-site disposal possess Hazardous properties or not. The assessments are provided for reference within Appendix J.

7.4.6 The samples in Table 7.5 were classified as possessing Hazardous properties following the Stage Two Hazardous property assessment:

Table 7.5: Samples identified as containing hazardous properties by WM3 assessment

Location	Depth (mbgl)	Strata	Hazard properties[#]	Relevant parameters
2014 Investigation Data				
BH24	0.2	Made Ground	HP3(i), HP7, HP11, HP14	TPH C_6-C_{40}, benzo(a)anthracene
BH33	0.5	Made Ground	HP3(i), HP7, HP11, HP14	TPH C_6-C_{40}, benzo(a)anthracene
BH36	0.45	Made Ground	HP14	Copper, zinc
BH41	8.5	Made Ground	HP3(i), HP7, HP11, HP14	TPH C_6-C_{40}, Benzo(a)anthracene
BH41	9.5	Made Ground	HP3(i), HP7, HP11	TPH C_6-C_{40}
BH46	0.5	Made Ground	HP7	Asbestos
SCPT02	0.5	Made Ground	HP14	Lead, zinc
SCPT15	0.5	Made Ground	HP14	Lead

[19] * denotes hazardous waste

Location	Depth (mbgl)	Strata	Hazard properties#	Relevant parameters
SCPT24	0.5	Made Ground	HP3(i), HP7, HP11, HP14	TPH C_6-C_{40}, benzo(a)anthracene
SCPT24A	0.5	Made Ground	HP3(i), HP7, HP11, HP14	TPH C_6-C_{40}, nickel, benzo(a)anthracene, chromium III
TP11	0.4	Made Ground	HP7, HP10, HP14	Lead
TP11	1.6	Made Ground	HP3(i), HP7, HP11	TPH C_6-C_{40}
TP18	0.25	Made Ground	Potentially HP7	Asbestos
WS09	0.5-0.9	Made Ground	HP14	Copper, lead
WS12	0.3	Made Ground	HP14	Benzo(a)anthracene
WS12a	0.4-0.6	Made Ground	HP3(i), HP7, HP11, HP14	TPH C_6-C_{40}, benzo(a)anthracene
WS21	0.5	Made Ground	HP14	Copper, lead, zinc
2015 Investigation Data				
(MS) WS402 (ES1)	0.1	Made Ground	HP8	pH
(MS) WS404 (ES1)	0.1	Made Ground	HP8	pH
(GR) TP604 (ES4)	0.5	Made Ground	Potentially HP7	Asbestos (chrysotile)

Hazard Properties (HP): HP3(i) – Flammable, HP7 – Carcinogenic, HP8 – Corrosive, HP10 – Toxic for Reproduction, HP11 – Mutagenic, HP14 – Ecotoxic

7.4.7 Stage Two (Hazardous property) assessment results indicate that the following initial classifications should apply to tested materials which become waste.

Made ground – hazardous properties

7.4.8 Twenty out of 208 made ground samples (~10%) were classified as possessing hazardous properties (refer to Table 7.5). LoW Code 17-05-03 (Hazardous) would apply to these materials for waste disposal purposes.

7.4.9 Fifteen of the made ground samples are typically from around Mytongate Junction. Sample SCPT02 is located by the junction of Porter Street, two samples from BH41, located adjacent to the Humber Dock Wall and one sample from BH46 from located near the Magistrates' Court). TP604 was taken east of the roundabout at Garrison Road (now known as Roger Millard Way).

7.4.10 The Hazardous samples were generally recovered from shallow made ground (within 0.5m of ground level). Samples from BH41 and TP11 were from deep made ground (8.5 and 9.5 mbgl within BH41 and 1.6m within TP11). The materials were in general not dissimilar to made ground described elsewhere across the Scheme area. Cohesive made ground comprised sandy gravelly clay and ash fill with gravel of chalk, flint, concrete clinker and occasional cobbles of brick. Granular made ground comprised sand and gravels with gravel of brick, concrete, mixed natural rock.

7.4.11 Made ground in the vicinity of BH46 at 0.5 mbgl has been assessed as Hazardous due to the presence of chrysotile lagging at a quantification of 0.11%, which is greater than the 0.1% HP 7 threshold. LoW Code 17-05-03 (Hazardous) would apply to these materials for the purposes of waste disposal.

7.4.12 Made ground in the vicinity of TP604 at 0.5 mbgl has been assessed as Hazardous due to the presence of chrysotile in the sample. No quantification data is available[20] for this sample therefore LoW Code 17-05-03 (Hazardous) would apply to these materials for the purposes of waste disposal.

7.4.13 ACMs were visually identified in TP18 at 0.25 mbgl (chrysotile asbestos tile). Laboratory quantification was not possible. The tile has been assessed as containing greater than 0.1% asbestos (according to HSE publication HSG 264: The Survey Guide, the asbestos content of asbestos cement is 15%[21]) which is greater than the 0.1% HP 7 threshold.

7.4.14 WM3 Guidance requires that, in the event that the waste contains identifiable pieces of asbestos (i.e. any particle of a size that can be identified as being asbestos by a competent person if examined by the naked eye), then the waste is regarded as a mixed waste and classified as Hazardous unless the visible fragments can be removed and disposed of separately (as 17-06-05) from the soil.

Made ground – non-hazardous properties

7.4.15 188 out of 208 made ground samples (~90%) taken from across the Scheme area were classified as not possessing Hazardous properties. LoW Code 17-05-04 (Non-Hazardous) would apply to these materials for the purposes of waste disposal.

Natural ground

7.4.16 All 93 natural ground (Alluvium) samples (100%) taken from across the Scheme area were classified as not possessing Hazardous properties. Accordingly, LoW Code 17-05-04 (Non-Hazardous) would apply to these materials for the purposes of waste disposal.

[20] In the absence of asbestos quantification data, an asbestos content of 0.1 % (1,000 mg/kg) has been inputted into HazWasteOnline™ to flag the materials as potentially hazardous (HP7) until demonstrated otherwise.

[21] In the absence of asbestos quantification data, an asbestos content of 15 % (150,000 mg/kg) has been inputted into HazWasteOnline™ to flag the materials as potentially hazardous (HP7) until demonstrated otherwise.

7.4.17 Based on the material descriptions and Non-Hazardous classification of the overlying Alluvial Deposits, untested superficial Glacial deposits and solid Chalk geology which are free from visual or olfactory evidence of contamination are likely to be Non-Hazardous (LoW Code 17-05-04).

Stage Three – landfill acceptability

7.4.18 Forty five WAC tests (Appendix K) representative of made ground and natural superficial deposits across the Scheme were undertaken in order to determine acceptability at appropriate landfill classes.

7.4.19 This assessment assumes disposal to landfill (where unsuitable for re-use or recovery). Should disposal to a treatment facility be proposed, all waste materials/classifications should be confirmed by the receiving landfill prior to any disposal.

Topsoil

7.4.20 Where classified as Non-Hazardous waste at Stage Two, topsoil cannot be disposed of as waste at an Inert landfill. Accordingly, topsoil requiring disposal to landfill as part of this Scheme must be disposed of to a landfill licensed to accept Non-Hazardous Waste.

Made ground – hazardous

7.4.21 Made ground represented by the 20 samples detailed in Table 7.5 have been assessed as Hazardous waste at Stage Two. Materials of this nature must be segregated and disposed of to a landfill licensed to accept Stable Non-reactive Hazardous Waste (SNRHW) or Hazardous waste[22] if disposal is required.

7.4.22 Only limited WAC analysis is available for the Hazardous samples:

- TP11 at 1.6 mbgl - Materials suitable for disposal off-site to a landfill disposal facility capable of accepting SNRHW or Hazardous waste.
- WS402 (ES1) at 0.1 mbgl - Materials suitable for disposal off-site to a landfill disposal facility capable of accepting SNRHW or Hazardous waste.
- WS404 (ES1) at 0.1 mbgl - Materials suitable for disposal off-site to a landfill disposal facility capable of accepting SNRHW or Hazardous waste.
- BH46 at 0.5 mbgl - Materials suitable for disposal off-site to a landfill disposal facility capable of accepting SNRHW or Hazardous waste.
- TP18 at 0.25 mbgl - Materials suitable for disposal off-site to a landfill disposal facility capable of accepting SNRHW or Hazardous waste.

[22] Some hazardous material may be classified as requiring pre-treatment prior to disposal (due to failing Hazardous WAC thresholds).

Made ground - non-hazardous

7.4.23 Representative WAC analysis for the Non-Hazardous made ground samples indicates that the materials do not consistently meet Inert WAC. Should landfill disposal be proposed, these materials should be disposed of to a landfill licenced to accept Non-Hazardous Waste.

Natural ground

7.4.24 Representative WAC analysis for the superficial deposit (alluvium) samples indicates that the materials do not consistently meet inert WAC. Should landfill disposal be proposed, these materials should be disposed of to a landfill licenced to accept Non-Hazardous waste.

7.4.25 Peat / organic rich materials cannot be disposed of as waste at an inert landfill. Accordingly any peat (organic rich) materials requiring disposal to landfill as part of this Scheme must be considered to be Non-Hazardous waste.

7.4.26 The European Council Decision 2003/33/EC, establishing criteria and procedures for the acceptance of waste at landfills, identifies wastes that are acceptable without testing at landfills for Inert Waste.

7.4.27 Given the physical nature of the untested superficial Glacial deposits and solid Chalk geology, it is considered likely that materials free from visual or olfactory evidence of contamination, peat or organic rich materials could be treated as Inert Waste and that Inert landfill facilities would be able to accept these materials without further testing. As detailed in 7.4.29, this should be reviewed with any receiving landfill, in line with their specific permit requirements.

Waste assessment summary

7.4.28 During construction, should material disposal (to landfill) be necessary, arisings should be treated initially through segregation into distinct material types for disposal.

Table 7.6: Samples identified as containing hazardous properties by WM3 assessment

Material type	Disposal class	LoW code	Notes
Topsoil	Non-Hazardous	17-05-04	Consider re-use or recovery operations in preference to disposal, otherwise disposal generally to Non-Hazardous landfill.
Made Ground - Hazardous	**Hazardous**	**17-05-03** **17-06-05**	Management as Hazardous waste (SNRHW or Hazardous Waste).

Material type	Disposal class	LoW code	Notes
			Material should be inspected for visible ACM fragments, and if found any fragments appropriately removed by the contractor, and disposed of separately (as 17-06-05), or bulk material including fragments treated as mixed Hazardous waste. Additional landfill acceptability testing and assessment of Hazardous materials to confirm disposal route.
Made Ground – Non-Hazardous	Non-Hazardous	17-05-04	Consider re-use or recovery operations in preference to disposal, otherwise disposal generally to Non-Hazardous landfill.
Natural Superficial Deposits (Alluvium)	Non-Hazardous	17-05-04	Consider re-use or recovery operations in preference to disposal, otherwise disposal generally to Non-Hazardous landfill.
Natural Superficial Deposits (Glacial)	Non-Hazardous	17-05-04	Consider re-use or recovery operations in preference to disposal, otherwise disposal generally to Inert landfill or exempt site.
Chalk Bedrock	Non-Hazardous	17-05-04	Consider re-use or recovery operations in preference to disposal, otherwise disposal generally to Inert landfill or exempt site.

7.4.29 Appropriate disposal routes should be identified by the waste producer and/or contractor, however they are likely to be as listed above. All waste materials/classifications should be confirmed by the receiving landfill prior to any disposal.

7.4.30 During the Construction Phase, the Principal Contractor must undertake additional testing and assessment as required to comply with UK waste regulatory framework or the requirements of the receiving landfill.

7.4.31 Deeper made ground underlying the 20 Hazardous samples was not sampled or assessed. It may be possible through further sampling, assessment and segregation to reduce the quantity of Hazardous made ground.

7.4.32 Through additional delineation of the ACMs identified in BH46, TP18 and TP604 and testing of the excavation arisings (for the presence and quantification of asbestos and to confirm its waste classification) and alongside physical separation of asbestos fragments (if a viable option), it may be possible to re-assess the

current waste assessment. This may limit volumes of materials currently designated for Hazardous disposal.

7.4.33 Shallow made ground in WS402 and WS404 were assessed as potentially Hazardous due to elevated pH. Through further sampling and specialist testing (acid/alkali reserve test) it may be possible to re-classify these materials as Non-Hazardous and reduce Hazardous made ground waste quantities.

7.4.34 It may be possible to dispose a proportion of the Non-Hazardous made ground and superficial Alluvium deposits across the site to landfill or exempt site as Inert Waste through materials segregation and additional WAC testing (as required).

7.4.35 Works including identification and segregation of materials are intended to be supervised by an appropriately qualified site engineer, who will also inspect the materials being excavated for any non-conforming wastes (e.g. asbestos, domestic, commercial wastes etc.). The removal and disposal of any non-conforming wastes would remain the responsibility of the contractor and/or waste producer.

8 Conclusions

8.1 Identified sources

8.1.1 The conceptual 'source-pathway-receptor' model outlined in Section 3 has been updated based on the findings of the site investigation. As such, the following sources of contamination have been identified:

- localised hydrocarbons in soils (TP11, WS25, BH41A, WS12A) which are leachable and impacting shallow groundwater in localised areas (BH41A, SBP02)
- heavy metals and organics in shallow made ground, some leading to potentially hazardous classification of materials
- asbestos in localised areas of made ground
- elevated concentrations of copper in groundwater
- elevated concentrations of methane occurring with a high flow rate
- concentrations of organics in localised shallow made ground exceed the thresholds considered acceptable for polyethylene pipes
- high conductivity in groundwater exceeds the threshold considered acceptable for wrapped steel or wrapped iron pipework which may be placed beneath the water table.

8.2 Risk evaluation

8.2.1 A risk evaluation has been carried out by considering the source-pathway-receptor relationship in terms of both the probability (likelihood) that a source-receptor linkage will occur and the potential consequences of the occurrence.

8.2.2 The potential environmental risks are summarised in Table 8.1. Two risk levels have been given: a) assuming no mitigation in place and b) with mitigation.

Table 8.1: Environmental risk assessment

Activity	Identified hazard	Receptor / *consequence of hazard-receptor linkage*	Pathways / *likelihood of hazard-receptor linkage*	Risk level without mitigation	Proposed mitigation measures	Risk level with mitigation
Construction – e.g. earthworks, jet grouting, dewatering, piling	Localised contaminants in Made Ground (metals, TPH, asbestos) and elevated contaminants in groundwater	Site workers and adjacent site users - *Moderate*	Direct contact, ingestion, inhalation - *Likely*	**Moderate**	Construction Environmental Management Plan (CEMP) to outline requirements for mitigation required during construction (e.g. personal protective equipment (PPE)). Additional sampling to be undertaken during earthworks in accordance with a Materials Management Plan (MMP) to establish suitability for material re-use and/or requirements for disposal.	**Moderate/ Low**
		Groundwater (Superficial deposits) - *Mild*	Vertical migration of contaminants into underlying Superficial Aquifer - *Likely*	**Moderate/ Low**	Piling methodology to be selected to minimise the potential for down-drag of contaminants. A Foundation Works Risk Assessment (FWRA) should be undertaken in accordance with EA guidance[23] to ensure appropriate foundation solutions are designed and undertaken to mitigate risks to controlled waters. CEMP to outline measures to mitigate impacts to groundwater, including during dewatering.	**Low**
		Groundwater (Chalk – Principal aquifer) - *Moderate*	Vertical migration of contaminants into underlying Principal Aquifer - *Low likelihood*	**Moderate/ Low**		
		Surface water - *Moderate*	Lateral migration of contaminants and/or surface water run-off – *Likely*	**Moderate**	Measures to be outlined in the CEMP and implemented during construction to protect surface water courses and minimise runoff.	**Low**
		Ecology - *Moderate*	Direct contact, ingestion, inhalation - *Likely*	**Moderate**	Measures to be outlined in the CEMP and implemented during construction to protect ecology and habitats.	**Low**

[23] Piling into Contaminated Sites (2002) Environment Agency
Piling and Penetrative Ground Improvement Methods on Land Affected by Contamination: Guidance on Pollution Prevention (2001) NC/99/73, Environment Agency

Activity	Identified hazard	Receptor / *consequence of hazard-receptor linkage*	Pathways / *likelihood of hazard-receptor linkage*	Risk level without mitigation	Proposed mitigation measures	Risk level with mitigation
					Ecological management plan will outline the locations of any protected species / habitats which require protection during construction	
	Hazardous ground gas	Site workers and adjacent site users - *Severe*	Migration, accumulation and potential for asphyxiation/explosion - *Likely*	**High**	Protection measures to be outlined in the CEMP and implemented during construction (e.g. PPE, personal monitors/alarms) Migration pathways to adjacent site users to be considered and mitigated, as outlined in CEMP.	**Moderate/ Low**
Post construction	Localised contaminants in Made Ground (metals, TPH, asbestos) and groundwater	End users, maintenance workers and adjacent site users - *Moderate*	Direct contact, ingestion, inhalation - *Low likelihood*	**Moderate/ Low**	Materials re-used on the Scheme to be identified as suitable for use. Appropriate cover systems to be put in place as identified within the MMP.	**Low**
		Groundwater (Superficial deposits) - *Mild*	Vertical migration of contaminants into underlying Superficial Aquifer - *Low likelihood*	**Low**	Piling methodology to be selected to minimise the potential for piles to act as a continuing vertical pathway for migration of contaminants in groundwater.	**Low**
		Groundwater (Chalk – Principal aquifer) - *Moderate*	Vertical migration of contaminants into underlying Principal Aquifer - *Low likelihood*	**Moderate/ Low**		
		Surface water - *Moderate*	Lateral migration of contaminants and/or surface water run-off – *Likely*	**Moderate**	Appropriate drainage system to be designed and implemented for the Scheme to mitigate the potential for water run-off into surface water receptors.	**Low**
		Buried structures and services - *Mild*	Direct contact with foundations/services - *Likely*	**Moderate**	Appropriate design and selection of suitable materials given ground conditions. Additional sampling and analysis of soils, as appropriate.	**Low**

Activity	Identified hazard	Receptor / *consequence of hazard-receptor linkage*	Pathways / *likelihood of hazard-receptor linkage*	Risk level without mitigation	Proposed mitigation measures	Risk level with mitigation
	Hazardous ground gas	Buried structures and services - *Mild*	Migration, accumulation and potential for explosion - *Likely*	**Moderate/ Low**	Appropriate ground gas protection measures to be implemented in accordance with current UK guidance in pump house/drainage chambers, where there is the potential for ground gas to accumulate in a confined space.	**Low**
		End users, maintenance workers and adjacent site users - *Severe*	Migration, accumulation and potential for asphyxiation/explosion - *Low*	**Moderate**		

9 References

Previous Desk Studies

Pell Frischmann	A63 Castle Street Improvements, Hull, Project Support Framework – Preliminary Sources Study Report, Report Reference W11189/VAA/02 Rev 1.	2009a

Previous Ground Investigations (General)

Allied Exploration & Geotechnics Ltd.	A63 Trunk Road Improvement, Castle Street Hull – Ground Investigation	1994

Site Specific Ground Investigations and Reports

Acer	A63 Trunk Road Improvements, Castle Street, Hull – Geotechnical Interpretative Report on Ground Investigation	1995
Landmark Information Group Services	Report Ref 166624-1-1, Envirocheck Report on Castle Street, Hull	2002
Landmark Information Group Services	Report Ref. 43865337-1, Envirocheck Report on Castle Street, Hull	2013
BACTEC	Explosive Ordnance Threat Assessment of A63, Castle Street, Hull	2008
ESG	A63 Castle Street Improvements Main Site GI. Factual Report on Ground Investigation	2016a
ESG	Princes Quay Footbridge, A63 Castle Street Improvement, Hull. Factual Report on Ground Investigation.	2016b
ESG	Trinity Burial Ground, A63 Castle Street Improvement, Hull. Factual Report on Ground Investigation.	2016c
ESG	A63 Garrison Road, Castle Street Improvement, Hull. Factual Report on Ground Investigation.	2016d
Geotechnics Ltd.	Ground Investigation at A63 Castle Street Improvement, Hull	2013
Geotechnics Ltd.	A63 Castle Street Improvement, Hull – Addendum Report	2014
GroundSure Ltd	Report ref EMS_65650_82556, Environmental Data Report	2008
Highways Agency	A63 Trunk Road Improvements – Hull, Technical Appraisal Report	2008
Mott MacDonald Grontmij Joint Venture	A63 Castle Street Improvements Hull, Environmental Statement Scoping Report	2013

Mott MacDonald Grontmij Joint Venture	A63 Castle Street Improvements Hull, Ground Investigation Report (1168-09-152-RE-001)	2014a
Mott MacDonald Grontmij Joint Venture	A63 Castle Street Improvements Hull, Groundwater Report (1168-10-223-RE-001-PD1)	2014b
Mott MacDonald Grontmij Joint Venture	A63 Castle Street Improvements Hull, Pump Test Report (1168-10-223-RE-002-PD1)	2014c
Pell Frischmann	A63 Castle Street Improvement Hull, Flood Risk Assessment	2009b
Pell Frischmann	A63 Castle Street Improvement Hull - Environmental Assessment Report (Options Selection Stage), Report Reference W11189/T13/02 Final Rev 2	2010

Reference Texts

BGS, Environment Agency	Baseline Report Series: 10. The Chalk Aquifer of Yorkshire and North Humberside. Smedley, P.L., Neumann, I. & Farrell, R	2004
BGS	Geological Map Sheet TA 12 NW, 1:10,560 scale	1980
BGS	Geological Map Sheet TA 02 NE, 1:10,560 scale	1982
BGS	Geological Map Sheet 80 Kingston upon Hull, 1:50,000 scale, Drift Edition	1983
BSI	BS5930: 2015 Code of Practice for Site Investigations,	2015
BSI	BS8485: 2015. Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings	2015
BSI	BS10175: Investigation of Potentially Contaminated Sites – Code of Practice	2011 (+A1:2013)
BSI	Eurocode 7: Geotechnical Design.	2007
CIRIA	CIRIA. Contaminated Land Risk Assessment, A Guide to Good Practice	2001
CIRIA	C665 Assessing risks posed by hazardous ground gases to buildings	2007
DEFRA	Contaminated Land Statutory Guidance	2012
DEFRA	Guidelines for Environmental Risk Assessment and Management, Revised Departmental Guidance	2011

Elliot, T., Chadha, D.S., & Younger, P.L.	Water Quality Impacts and Palaeohydrogeology in the Yorkshire Chalk Aquifer, UK. Quarterly Journal of Engineering Geology and Hydrogeology, 34(4): 385-398	2001
Environment Agency	Contaminated Land Report (CLR) 11, Model Procedures for the Management of Land Contamination	2004
Environment Agency/ SEPA	Technical Guidance WM3, Guidance on the classification and assessment of waste, 1st Edition	2015
Environment Agency	River Basin Management Plan Humber River Basin District	2015
Environment Agency	Catchment Data Explorer	2016
Gooddy and Darling	The potential for methane emissions from groundwaters of the UK	2005
Health and Safety Executive	Construction (Design and Management) Regulations 2015	2015
Hooker and Bannon	Methane: Its Occurrence and Hazards in Construction	1993
Part 2A of the Environmental Protection Act		1990
The Water Framework Directive (Standards and Classification) Directions (England and Wales)		2015
UKWIR	Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites	2010
The Water Supply (Water Quality) Regulations		2016
WHO	Guidelines for Drinking Water Quality. Fourth Edition	2011

10 Glossary

Glossary term	Description
Aquifer	Water is present almost everywhere underground, but some geological formations are impermeable – meaning that water can hardly flow through them – and some are permeable – they contain fine holes that allow water to flow. Permeable formations that contain groundwater are known as aquifers.
Area of Potential Concern	In contaminated land assessment, an Area of Potential Concern is an area of soil or groundwater which may have been contaminated from historical use e.g. soil underlying a former gas works. The assessment of looks at whether the area has been contaminated, the extent of any contamination both laterally and with depth, and whether the contamination presents a hazard to potential users of the land or the environment.
Groundwater	Groundwater is the largest available reservoir of fresh water. Water falls as rain and snow onto the land; a proportion of this rainfall soaks into the soil. Once the needs of plant roots and soil moisture have been satisfied, the remaining water continues its journey downward to rock layers beneath the soil. These underground rock layers have the capacity to let water flow through them, either through large cracks and openings in the rock, or through tiny inter-connected spaces between individual rock grains. The water contained in these rocks is groundwater; and these bodies of rock are known as aquifers.
Headspace screening	Used as a preliminary screening tool to assess the concentration of volatile organic compounds (VOC) of a soil sample using a portable photo-ionisation detector (PID). A clean jar is half filled with soil, covered with aluminium foil and sealed. The headspace is allowed to equilibrate and the PID probe then inserted through the foil to record a total VOC concentration for headspace.
Made Ground	Ground created by infilling an area with material taken from elsewhere; typically reworked soils, rubble, gravel, sand or former waste material e.g. ash.
Principal Aquifer	Strata that has high intergranular and/or fracture permeability - meaning they usually provide a high level of water storage and may support water supply and/or river base flow on a strategic scale.
Ramsar	The Convention on Wetlands of International Importance, called the Ramsar Convention, is an intergovernmental treaty that provides the framework for national action and international cooperation for the conservation and wise use of wetlands and their resources.

Glossary term	Description
Solid Geology (Bedrock)	Comprises the native consolidated rock underlying the surface soils or drift deposits.
Unproductive strata	Drift deposits with low permeability that have negligible significance for water supply or river base flow.

11 List of abbreviations

ACM	Asbestos Containing Materials
AEG	Allied Engineering & Geotechnics
APC	Areas of Potential Concern (with respect to contamination)
AWB	Artificial Water Body
BACTEC	Battle Area Clearance, Training, Equipment and Consultancy
bgl	below ground level
BGS	British Geological Society
BH	Borehole
BS	British Standard
BTEX	Benzene, Toluene, Ethylbenzene, Xylene
CEMP	Construction Environmental Management Plan
CLEA	Contaminated Land Exposure Assessment
CSM	Conceptual Site Model
DEFRA	Department for Environment Food and Rural Affairs
DO	Dissolved Oxygen
DrWPA	Drinking Water Protected Area
DWS	Drinking Water Standards
EA	Environment Agency
EAR	Environmental Assessment Report
EC	Electrical Conductivity
EOD	Explosive Ordnance Disposal
EQS	Environmental Quality Standard
ESG	Environmental Scientifics Group
ESSR	Environmental Statement Scoping Report

FOC	Fraction of Organic Carbon
GAC	Generic Assessment Criteria
GIR	Ground Investigation Report
GSV	Gas Screening Value
HA	Highways Agency
HCC	Hull City Council
LEL	Lower Explosive Limit
mAOD	Meters Above Ordnance Datum
MCERTS	Environment Agency's Monitoring Certification Scheme
MMGJV	Mott MacDonald Grontmij Joint Venture
MMP	Materials Management Plan
NR	Not Recorded
ORP	Oxygen Reduction Potential
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Poly-Chlorinated Biphenyls
PF	Pell Frischmann Consultants Ltd
PID	Photo-Ionization Detector
PPE	Personal Protective Equipment
PSSR	Preliminary Sources Study Report
PSF	Project Support Framework
RBMP	River Basin Management Plan
SAC	Special Areas of Conservation
SAL	Scientific Analysis Laboratories Ltd.
SAPs	Species Action Plans
SAR	Scheme Assessment Report
SBPT	Self-Boring Pressuremeter Test

SCPT	Static Cone Penetration Test
SDA	Strategic Development Area
SGV	Soil Guideline Values
SNCI	Site of Nature Conservation Interest
SOM	Soil Organic Matter
SPA	Special Protection Area
SSSI	Site of Special Scientific Interest
SVOC	Semi-Volatile Organic Compounds
SW	Surface Water
TDS	Total Dissolved Solids
TP	Trial Pit
TPH	Total Petroleum Hydrocarbons
TPH-CWG	Total Petroleum Hydrocarbons Controlled Working Group
UKAS	United Kingdom Accreditation Scheme
UKWIR	United Kingdom Water Industry Research
UXO	Unexploded Ordnance
VOC	Volatile Organic Compounds
WAC	Waste Assessment Criteria
WHO	World Health Organisation
WS	Window Sample

Appendix A: Chemical analyses

A1: List of Analyses

A2: Incoming Results

A1: List of Analyses

A2: Incoming Results

Appendix B: Summary of multiparameter readings

Appendix C: Summary of ground gas monitoring results

Appendix D: Bulk gas analyses

Appendix E: Isotope analyses

Appendix F: Dissolved methane analyses

Appendix G: Assessment criteria

Appendix H: Generic screening results

Appendix H1: Soil (human health)

Appendix H2a: Leachability results (controlled waters – DWS)

Appendix H2b: Leachability results (controlled waters – EQS)

Appendix H3a: Groundwater (controlled waters – DWS)

Appendix H3b: Groundwater (controlled waters – EQS)

Appendix H4: Surface Water (controlled waters – EQS)

Appendix H1: Soil (human health)

Appendix H2a: Leachability results (controlled waters – DWS)

Appendix H2b: Leachability results (controlled waters – EQS)

Appendix H3a: Groundwater (controlled waters – DWS)

Appendix H3b: Groundwater (controlled waters – EQS)

Appendix H4: Surface Water (controlled waters – EQS)

Appendix I: Controlled waters screening (discussion)

Appendix J: WM3 assessment (hazardous waste)

Appendix J1: Material Reuse and Waste Management Hierarchy

Appendix J2: Classification Report-A63 Castle Street EIA 2014 Data

Appendix J3: Classification Report-A63 Castle Street EIA 2015 Data

Appendix J1: Material Reuse and Waste Management Hierarchy

Appendix J2: Classification Report-A63 Castle Street EIA 2014 Data

Appendix J3: Classification Report-A63 Castle Street EIA 2015 Data

Appendix K: WAC analyses

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Exploratory Hole	Depth (mbgl)	Strata	Contaminant of Concern	Concentration (mg/kg)
SCPT24	0.5	Made ground	Dibenzo(ah)anthracene	4.3
SCPT24A	0.5	Made ground	Nickel	2,700
WS12	0.3	Made ground	Benzo(a)pyrene	53
			Benzo(b)fluoranthene	73
			Dibenzo(ah)anthracene	6.9
WS12A	0.4-0.6	Made ground	Benzo(a)pyrene	42
			Benzo(b)fluoranthene	53
			Dibenzo(ah)anthracene	5.9

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of Concern	Concentration (mg/kg)
SCPT17	0.5	Made ground	Pyrene	4.2
SCPT15	0.5	Made ground	Lead	2,900
BH22	0.5	Made ground	Vinyl chloride	<0.15
TP04	0.5-0.7	Made ground	Vinyl chloride	<0.15

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of Concern	Concentration (mg/kg)
BH24	0.2	Made ground	Benzo(a)pyrene	74
			Benzo(b)fluoranthene	72
			Dibenzo(ah)anthracene	7.5

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Notes

Key to symbols

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- SCPT ▲ STATIC CONE PENETRATION TEST
- SBP ◉ SELF BORING PRESSUREMETER
- BH ● ROTARY OPEN HOLE
- WS ▲ WINDOW SAMPLE
- LDBH × BOREHOLE

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CONTAMINANTS OF CONCERN

- METALS
- PAH
- VOC's

Rev	Date	Amendment Details	Drw'n	Chk'd	App'd
P02	31/07/18	FINAL ISSUE	SF	MM	LC
P01.1	22/06/18	DRAFT	SF	MM	LC

Mott MacDonald Sweco

Client: highways england

Drawing Status: SHARED

Suitability: S4

Project Title: A63 (CASTLE STREET IMPROVEMENT, HULL)

Drawing Title: CONTAMINANTS IDENTIFIED IN SOIL EXCEEDING GENERIC ASSESSMENT CRITERIA FOR HUMAN HEALTH - COMMERCIAL END USE SHEET 1 OF 2

Scale	Designed	Drawn	Checked	Approved
1:1250	May, Matthew	Flnn, Shane	May, Matthew	Cottrell, Linsey
Orignal Size A1	Date 29/11/16	Date 29/11/16	Date 29/11/16	Date 29/11/16

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Project Ref. No. 514508

Revision P02

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KEY PLAN
SCALE 1:10000

INSET A
SCALE 1:1250

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of Concern	Concentration (mg/kg)
BH37	4	Made ground	Vinyl chloride	<0.15
BH41	8.5	Made ground	Vinyl chloride	<0.20

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of Concern	Concentration (mg/kg)
BH36	0.45	Made ground	Pyrene	5.5
TP11	0.4	Made ground	Lead	11,000

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CONTAMINANTS OF CONCERN
- METALS
- PAH
- VOC's

Rev	Date	Amendment Details	Drw'n	Chk'd	App'd
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S0 - DR - LE - 000002
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Revision: P02

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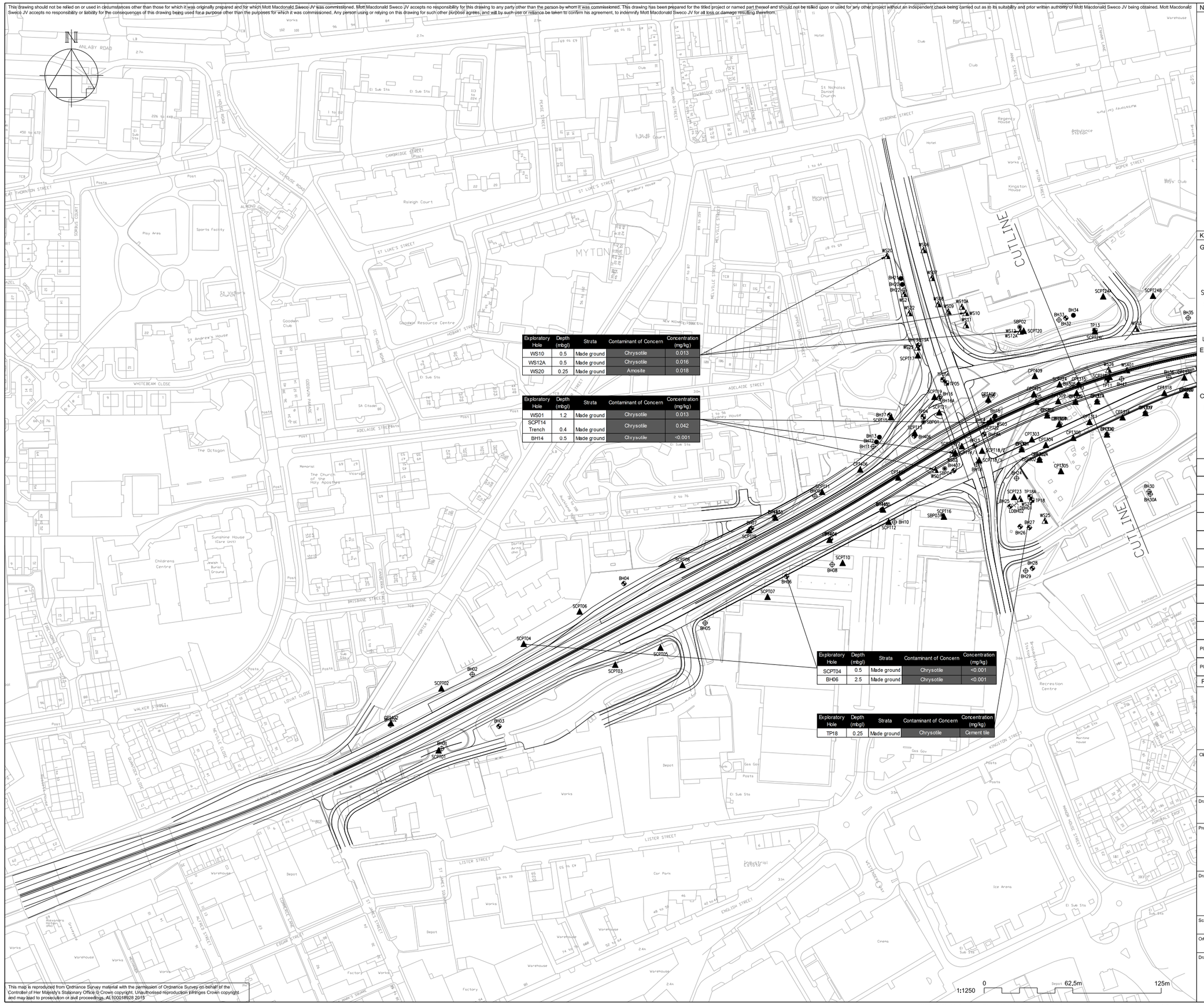

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CONTAMINANTS OF CONCERN

- ASBESTOS

Rev	Date	Amendment Details	Drw'n	Chk'd	App'd
P02	31/07/18	FINAL ISSUE	SF	MM	LC
P01.1	22/06/18	DRAFT	SF	MM	LC

Mott MacDonald Sweco

Client: highways england

Drawing Status: SHARED

Suitability: S4

Project Title: A63 (CASTLE STREET IMPROVEMENT, HULL)

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Scale	Designed	Drawn	Checked	Approved
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Orignal Size: A1	Date: 29/11/16	Date: 29/11/16	Date: 29/11/16	Date: 29/11/16

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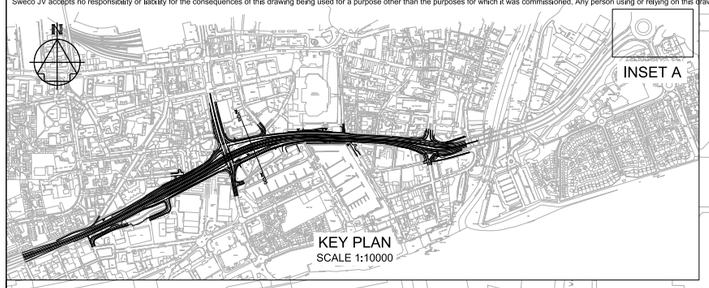

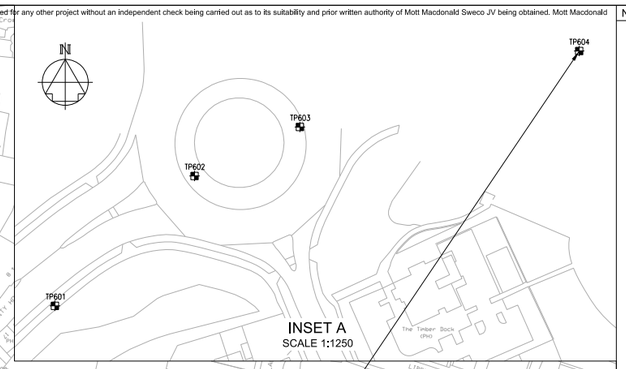

Exploratory Hole	Depth (m bgl)	Strata	Contaminant of Concern	Concentration (mg/kg)
TP604	1.5	Made ground	Chrsyotile	-

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of Concern	Concentration (mg/kg)
BH46	0.5	Made ground	Chrysotile	0.11

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of Concern	Concentration (mg/kg)
SCPT30	0.5	Made ground	Chrysotile	<0.001
SCPT28	0.5	Made ground	Chrysotile	0.022
BH41	3	Made ground	Chrysotile	0.033
	9.5	Made ground	Amosite	0.074

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- BH — CABLE PERCUSSIVE WITH ROTARY CORING
- TP — TRIAL PIT
- SCPT — STATIC CONE PENETRATION TEST
- SBP — SELF BORING PRESSUREMETER
- BH — ROTARY OPEN HOLE
- WS — WINDOW SAMPLE
- LDBH — BOREHOLE

ESG 2015 SITE INVESTIGATION
- BH — BOREHOLE
- TP — TRIAL PIT
- WS — WINDOW SAMPLE

CONTAMINANTS OF CONCERN
- ASBESTOS

Rev	Date	Amendment Details	Drw'n	Chk'd	App'd
P02	31/07/18	FINAL ISSUE	SF	MM	LC
P01.1	22/06/18	DRAFT	SF	MM	LC

Mott MacDonald Sweco

Client: highways england

Drawing Status: SHARED

Suitability: S4

Project Title: A63 (CASTLE STREET IMPROVEMENT, HULL)

Drawing Title: IDENTIFIED ASBESTOS SHEET 2 OF 2

Scale	Designed	Drawn	Checked	Approved
1:1250	May, Matthew	Flinn, Shane	May, Matthew	Cottrell, Linsey
Original Size: A1	Date: 29/11/16	Date: 29/11/16	Date: 29/11/16	Date: 29/11/16

Drawing Number: HE PIN 514508 - Originator MMSJV - Volume EGT - Location S0 - Type DR - Role LE - Number 000004

Project Ref. No.: 514508

Revision: P02

pw:\\MCCNTSI04.global.arup.com:PW_ARUP_UK_HE\Documents\A63 Castle Street Improvements\04 Mott MacDonald Limited Sweco Limited JV\LE - Landscape and environment - Environmentalist\DR - Drawing\HE514508-MMSJV-EGT-S0-DR-LE-000004

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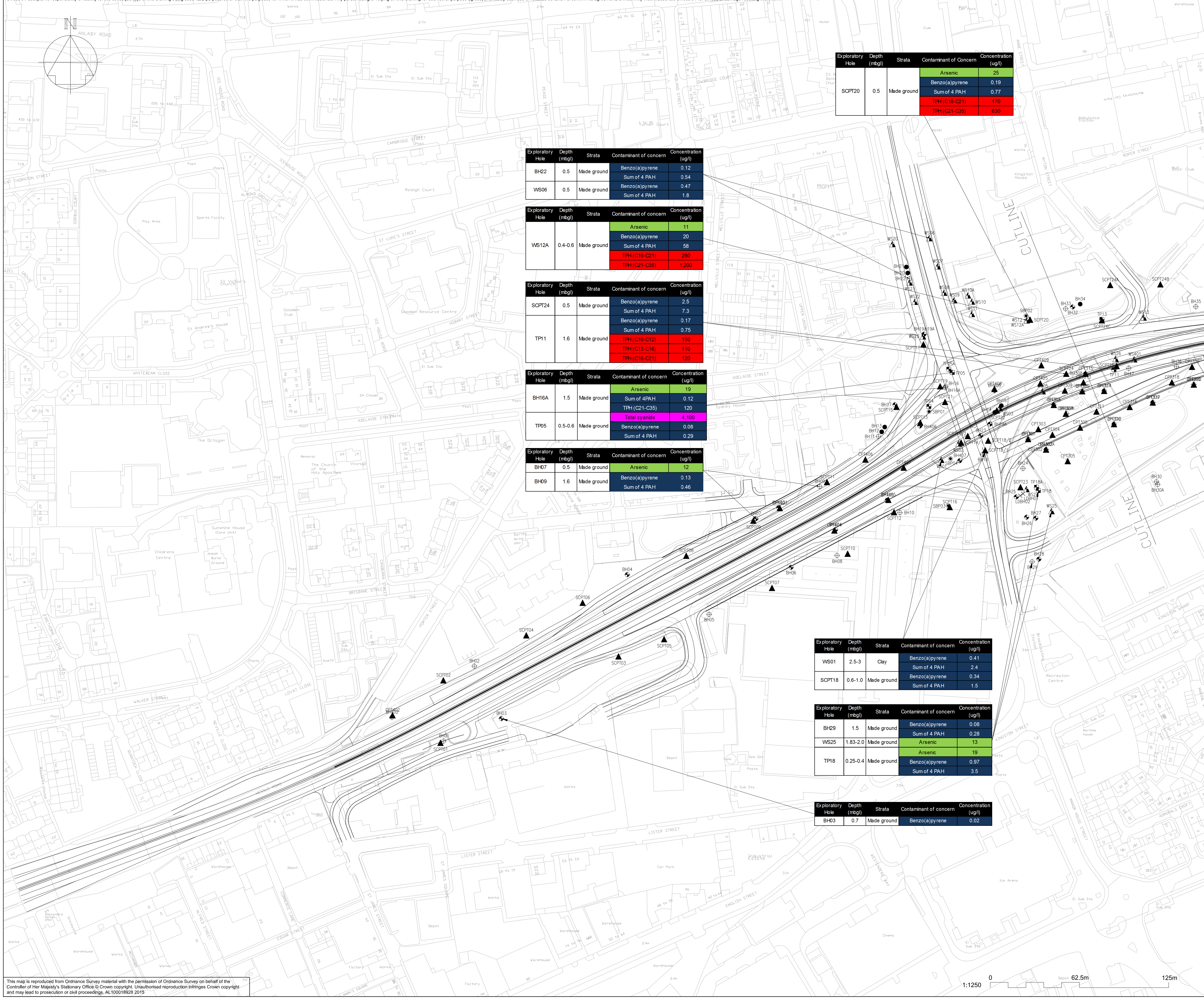

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of Concern	Concentration (ug/l)
SCPT20	0.5	Made ground	Arsenic	25
			Benzo(a)pyrene	0.19
			Sum of 4 PAH	0.77
			TPH (C16-C21)	170
			TPH (C21-C35)	630

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of concern	Concentration (ug/l)
BH22	0.5	Made ground	Benzo(a)pyrene	0.12
			Sum of 4 PAH	0.54
WS06	0.5	Made ground	Benzo(a)pyrene	0.47
			Sum of 4 PAH	1.8

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of concern	Concentration (ug/l)
WS12A	0.4-0.6	Made ground	Arsenic	11
			Benzo(a)pyrene	20
			Sum of 4 PAH	58
			TPH (C16-C21)	280
			TPH (C21-C35)	1,200

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of concern	Concentration (ug/l)
SCPT24	0.5	Made ground	Benzo(a)pyrene	2.5
			Sum of 4 PAH	7.3
TP11	1.6	Made ground	Benzo(a)pyrene	0.17
			Sum of 4 PAH	0.75
			TPH (C10-C12)	150
			TPH (C12-C16)	110
			TPH (C16-C21)	120

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of concern	Concentration (ug/l)
BH16A	1.5	Made ground	Arsenic	19
			Sum of 4PAH	0.12
			TPH (C21-C35)	120
TP05	0.5-0.6	Made ground	Total cyanide	4,100
			Benzo(a)pyrene	0.08
			Sum of 4 PAH	0.29

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of concern	Concentration (ug/l)
BH07	0.5	Made ground	Arsenic	12
BH09	1.6	Made ground	Benzo(a)pyrene	0.13
			Sum of 4 PAH	0.46

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of concern	Concentration (ug/l)
WS01	2.5-3	Clay	Benzo(a)pyrene	0.41
			Sum of 4 PAH	2.4
SCPT18	0.6-1.0	Made ground	Benzo(a)pyrene	0.34
			Sum of 4 PAH	1.5

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of concern	Concentration (ug/l)
BH29	1.5	Made ground	Benzo(a)pyrene	0.08
			Sum of 4 PAH	0.28
WS25	1.83-2.0	Made ground	Arsenic	13
TP18	0.25-0.4	Made ground	Arsenic	19
			Benzo(a)pyrene	0.97
			Sum of 4 PAH	3.5

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of concern	Concentration (ug/l)
BH03	0.7	Made ground	Benzo(a)pyrene	0.02

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Notes

1. SUM OF 4No. PAH'S IS THE SUM OF BENZO(B)FLUORANTHENE, BENZO(K)FLUORANTHENE, BENZO(GHI)PERYLENE AND INDENO(1,2,3-CD)PYRENE.

Key to symbols

GEOTECHNICS 2013 SITE INVESTIGATION

- BH — CABLE PERCUSSIVE BOREHOLE
- BH — CABLE PERCUSSIVE WITH ROTARY CORING
- TP — TRIAL PIT
- SCPT — STATIC CONE PENETRATION TEST
- SBP — SELF BORING PRESSUREMETER
- BH — ROTARY OPEN HOLE
- WS — WINDOW SAMPLE
- LDBH — BOREHOLE

ESG 2015 SITE INVESTIGATION

- BH — BOREHOLE
- TP — TRIAL PIT
- WS — WINDOW SAMPLE

CONTAMINANTS OF CONCERN

- METALS
- TPH
- PAH
- INORGANICS

Rev	Date	Amendment Details	Drw'n	Chk'd	App'd
P02	31/07/18	FINAL ISSUE	SF	MM	LC
P01.1	22/06/18	DRAFT	SF	MM	LC

Mott MacDonald Sweco

Client: highways england

Drawing Status: SHARED — Suitability: S4

Project Title: A63 (CASTLE STREET IMPROVEMENT, HULL)

Drawing Title: CONTAMINANTS IDENTIFIED IN LEACHABILITY ANALYSIS EXCEEDING GENERIC ASSESSMENT CRITERIA FOR GROUNDWATER (DRINKING WATER STANDARDS) SHEET 1 OF 2

Scale	Designed	Drawn	Checked	Approved
1:1250	May, Matthew	Finn, Shane	May, Matthew	Cottrell, Linsey
Original Size A1	Date 29/11/16	Date 29/11/16	Date 29/11/16	Date 29/11/16

Drawing Number: HE PIN 514508 - Originator MMSJV - Volume EGT - Location S0 - Type DR - Role LE - Number 000005

Project Ref. No. 514508

Revision P02

pw:\\MCCNTSI04.global.arup.com:PW_ARUP_UK_HE\Documents\A63 Castle Street Improvements\04 Mott MacDonald Limited Sweco Limited JV\LE - Landscape and environment - Environmentalist\DR - Drawing\HE514508-MMSJV-EGT-S0-DR-LE-000005

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INSET A

KEY PLAN
SCALE 1:10000

INSET A
SCALE 1:1250

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of Concern	Concentration (ug/l)
BH37	4	Made ground	Arsenic	56
			Boron	1,100
BH38	8.5	Made ground	Benzo(a)pyrene	0.06
			Sum of 4 PAH	0.19
BH40A	6.7	Made ground	Benzo(a)pyrene	0.07
			Sum of 4 PAH	0.17
			Benzo(a)pyrene	0.05
			Sum of 4 PAH	0.17

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of concern	Concentration (ug/l)
BH45	0.3	Made ground	Arsenic	11
			Benzo(a)pyrene	1.2
			Sum of 4 PAH	4.1
	2.5	Made ground	Benzo(a)pyrene	0.18
			Sum of 4 PAH	0.64

CULLINE

1:1250 0 62.5m 125m

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Notes

1. SUM OF 4No. PAH'S IS THE SUM OF BENZO(B)FLUORANTHENE, BENZO(K)FLUORANTHENE, BENZO(GHI)PERYLENE AND INDENO(1,2,3-CD)PYRENE.

Key to symbols

GEOTECHNICS 2013 SITE INVESTIGATION

- BH CABLE PERCUSSIVE BOREHOLE
- BH CABLE PERCUSSIVE WITH ROTARY CORING
- TP TRIAL PIT
- SCPT STATIC CONE PENETRATION TEST
- SBP SELF BORING PRESSUREMETER
- BH ROTARY OPEN HOLE
- WS WINDOW SAMPLE
- LDBH BOREHOLE

ESG 2015 SITE INVESTIGATION

- BH BOREHOLE
- TP TRIAL PIT
- WS WINDOW SAMPLE

CONTAMINANTS OF CONCERN

- METALS
- TPH
- PAH
- INORGANICS

Rev	Date	Amendment Details	Drw'n	Chk'd	App'd
P02	31/07/18	FINAL ISSUE	SF	MM	LC
P01.1	22/06/18	DRAFT	SF	MM	LC

Mott MacDonald Sweco

Client: highways england

Drawing Status: SHARED

Suitability: S4

Project Title: A63 (CASTLE STREET IMPROVEMENT, HULL)

Drawing Title: CONTAMINANTS IDENTIFIED IN LEACHABILITY ANALYSIS EXCEEDING GENERIC ASSESSMENT CRITERIA FOR GROUNDWATER (DRINKING WATER STANDARDS) SHEET 2 OF 2

Scale	Designed	Drawn	Checked	Approved
1:1250	May, Matthew	Flinn, Shane	May, Matthew	Cottrell, Linsey
Original Size	**Date**	**Date**	**Date**	**Date**
A1	29/11/16	29/11/16	29/11/16	29/11/16

Drawing Number: HE PIN | Originator | Volume
514508 - MMSJV - EGT -
S0 - DR - LE - 000006
Location | Type | Role | Number

Project Ref. No.: 514508

Revision: P02

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Exploratory Hole	Depth (mbgl)	Strata	Contaminant of concern	Concentration (ug/l)
WS12A	0.4-0.6	Made ground	Anthracene	4.9
			Benzo(a)pyrene	20
			Fluoranthene	31

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of Concern	Concentration (mg/l)
SCPT20	0.5	Made ground	Copper	17
			Lead	7
			Mercury	0.09
			Anthracene	0.11
			Benzo(a)pyrene	0.19
			Fluoranthene	0.26

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of concern	Concentration (ug/l)
BH22	0.5	Made ground	Copper	16
			Lead	2.2
			Benzo(a)pyrene	0.12
			Fluoranthene	0.06
WS06	0.5	Made ground	Copper	8.1
			Lead	4
			Benzo(a)pyrene	0.47
			Fluoranthene	0.35
BH19A	1.05	Made ground	Copper	30

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of concern	Concentration (ug/l)
SCPT24	0.5	Made ground	Copper	13
			Lead	1.7
			Anthracene	0.68
			Benzo(a)pyrene	2.5
			Fluoranthene	8
WS26	1.2-1.5	Made ground	Copper	4.5
			Mercury	0.17
	2-2.5		Mercury	0.16
			Total phenol	12
TP11	1.6	Made ground	Anthracene	0.58
			Benzo(a)pyrene	0.17
			Fluoranthene	0.43

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of concern	Concentration (ug/l)
BH16A	1.5	Made ground	Fluoranthene	0.1
TP05	0.5-0.6	Made ground	Benzo(a)pyrene	0.08
			Fluoranthene	0.06

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of concern	Concentration (ug/l)
BH03	0.7	Made ground	Benzo(a)pyrene	0.02
BH09	1.6	Made ground	Benzo(a)pyrene	0.13

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of concern	Concentration (ug/l)
WS01	2.5-3.0	Clay	Anthracene	0.19
			Benzo(a)pyrene	0.41
			Fluoranthene	0.44
SCPT18	0.6-1.0	Made ground	Copper	7.5
			Lead	3.5
			Zinc	8
			Benzo(a)pyrene	0.34
			Fluoranthene	0.25

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of concern	Concentration (ug/l)
BH29	1.5	Made ground	Benzo(a)pyrene	0.08
			Fluoranthene	0.06
WS25	1.83-2.0	Made ground	Chromium (VI)	7
			Mercury	0.17
TP18	0.25-0.4	Made ground	Chromium (VI)	10
			Copper	9.1
			Mercury	0.17
			Anthracene	0.12
			Benzo(a)pyrene	0.97
			Fluoranthene	0.65

1:1250 0 Depot 62.5m 125m

Notes

Key to symbols

GEOTECHNICS 2013 SITE INVESTIGATION

- BH — CABLE PERCUSSIVE BOREHOLE
- BH — CABLE PERCUSSIVE WITH ROTARY CORING
- TP — TRIAL PIT
- SCPT — STATIC CONE PENETRATION TEST
- SBP — SELF BORING PRESSUREMETER
- BH — ROTARY OPEN HOLE
- WS — WINDOW SAMPLE
- LDBH — BOREHOLE

ESG 2015 SITE INVESTIGATION

- BH — BOREHOLE
- TP — TRIAL PIT
- WS — WINDOW SAMPLE

CONTAMINANTS OF CONCERN

- METALS
- PAH
- PHENOL

Rev	Date	Amendment Details	Drw'n	Chk'd	App'd
P02	31/07/18	FINAL ISSUE	SF	MM	LC
P01.1	22/06/18	DRAFT	SF	MM	LC

Mott MacDonald Sweco

Client: highways england

Drawing Status: SHARED

Suitability: S4

Project Title: A63 (CASTLE STREET IMPROVEMENT, HULL)

Drawing Title: CONTAMINANTS IDENTIFIED IN LEACHABILITY ANALYSIS EXCEEDING GENERIC ASSESSMENT CRITERIA FOR SURFACE WATER (EQS) SHEET 1 OF 2

Scale	Designed	Drawn	Checked	Approved
1:1250	May, Matthew	Flinn, Shane	May, Matthew	Cottrell, Linsey
Orig'nal Size A1	Date 29/11/16	Date 29/11/16	Date 29/11/16	Date 29/11/16

Drawing Number: HE PIN 514508 - Originator MMSJV - Volume EGT - S0 - Location DR - Type LE - Role 000007 - Number

Project Ref. No. 514508

Revision P02

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KEY PLAN
SCALE 1:10000

INSET A
SCALE 1:1250

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of Concern	Concentration (mg/l)
BH37	4	Made ground	Arsenic	56
BH38	8.5	Made ground	Benzo(a)pyrene	0.06
BH40A	6.7	Made ground	Fluoranthene	0.03
			Benzo(a)pyrene	0.07
			Fluoranthene	0.06
			Benzo(a)pyrene	0.05
			Fluoranthene	0.08

Exploratory Hole	Depth (mbgl)	Strata	Contaminant of concern	Concentration (ug/l)
BH45	0.3	Made ground	Anthracene	0.14
			Benzo(a)pyrene	1.2
			Fluoranthene	2.4
	2.5	Made ground	Copper	4.8
			Benzo(a)pyrene	0.18
			Fluoranthene	0.06

1:1250 0 62.5m 125m

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Notes

Key to symbols

GEOTECHNICS 2013 SITE INVESTIGATION
- BH CABLE PERCUSSIVE BOREHOLE
- BH CABLE PERCUSSIVE WITH ROTARY CORING
- TP TRIAL PIT
- SCPT STATIC CONE PENETRATION TEST
- SBP SELF BORING PRESSUREMETER
- BH ROTARY OPEN HOLE
- WS WINDOW SAMPLE
- LDBH BOREHOLE

ESG 2015 SITE INVESTIGATION
- BH BOREHOLE
- TP TRIAL PIT
- WS WINDOW SAMPLE

CONTAMINANTS OF CONCERN
- METALS
- PAH
- PHENOL

Rev	Date	Amendment Details	Drw'n	Chk'd	App'd
P02	31/07/18	FINAL ISSUE	SF	MM	LC
P01.1	22/06/18	DRAFT	SF	MM	LC

Mott MacDonald Sweco

Client: highways england

Drawing Status: SHARED
Suitability: S4

Project Title: A63 (CASTLE STREET IMPROVEMENT, HULL)

Drawing Title: CONTAMINANTS IDENTIFIED IN LEACHABILITY ANALYSIS EXCEEDING GENERIC ASSESSMENT CRITERIA FOR SURFACE WATER (EQS) SHEET 2 OF 2

Scale	Designed	Drawn	Checked	Approved
1:1250	May, Matthew	Flinn, Shane	May, Matthew	Cottrell, Linsey
Orig Size: A1	Date: 29/11/16	Date: 29/11/16	Date: 29/11/16	Date: 29/11/16

Drawing Number: HE PIN 514508 - Originator MMSJV - Volume EGT - Location S0 - Type DR - Role LE - Number 000008

Project Ref. No.: 514508

Revision: P02

pw:\\MCCNTSI04.global.arup.com:PW_ARUP_UK_HE\Documents\A63 Castle Street Improvements\04 Mott MacDonald Limited Sweco Limited JV\LE - Landscape and environment - Environmental\st\DR - Drawing\HE514508-MMSJV-EGT-S0-DR-LE-000008

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1:1250 — 0 — 62.5m — 125m

Notes

Key to symbols

GEOTECHNICS 2013 SITE INVESTIGATION
- BH — CABLE PERCUSSIVE BOREHOLE
- BH — CABLE PERCUSSIVE WITH ROTARY CORING
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- SCPT — STATIC CONE PENETRATION TEST
- SBP — SELF BORING PRESSUREMETER
- BH — ROTARY OPEN HOLE
- WS — WINDOW SAMPLE
- LDBH — BOREHOLE

ESG 2015 SITE INVESTIGATION
- BH — BOREHOLE
- TP — TRIAL PIT
- WS — WINDOW SAMPLE

CONTAMINANTS OF CONCERN
- METALS
- TPH
- PAH
- INORGANICS

Rev	Date	Amendment Details	Drw'n	Chk'd	App'd
P02	31/07/18	FINAL ISSUE	SF	MM	LC
P01.1	22/06/18	DRAFT	SF	MM	LC

Mott MacDonald Sweco

Client: highways england

Drawing Status: SHARED — Suitability: S4

Project Title: A63 (CASTLE STREET IMPROVEMENT, HULL)

Drawing Title: CONTAMINANTS IDENTIFIED IN GROUNDWATER (SUPERFICIAL) EXCEEDING GENERIC ASSESSMENT CRITERIA (DWS) SHEET 1 OF 2

Scale	Designed	Drawn	Checked	Approved
1:1250	May, Matthew	Finn, Shane	May, Matthew	Cottrell, Linsey
Original Size A1	Date 29/11/16	Date 29/11/16	Date 29/11/16	Date 29/11/16

Drawing Number: 514508 (HE PIN) - MMSJV (Originator) - EGT (Volume) - S0 (Location) - DR (Type) - LE (Role) - 000009 (Number)

Project Ref. No. 514508

Revision P02

pw:\\MCCNTSI04.global.arup.com:PW_ARUP_UK_HE\Documents\A63 Castle Street Improvements\04 Mott MacDonald Limited Sweco Limited JV\LE - Landscape and environment - Environmentalist\DR - Drawing\HE514508-MMSJV-EGT-S0-DR-LE-000009

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INSET A

KEY PLAN
SCALE 1:10000

INSET A
SCALE 1:1250

CUTLINE

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1:1250 0 62.5m 125m

Notes

Key to symbols

GEOTECHNICS 2013 SITE INVESTIGATION

- BH — CABLE PERCUSSIVE BOREHOLE
- BH — CABLE PERCUSSIVE WITH ROTARY CORING
- TP — TRIAL PIT
- SCPT — STATIC CONE PENETRATION TEST
- SBP — SELF BORING PRESSUREMETER
- BH — ROTARY OPEN HOLE
- WS — WINDOW SAMPLE
- LDBH — BOREHOLE

ESG 2015 SITE INVESTIGATION

- BH — BOREHOLE
- TP — TRIAL PIT
- WS — WINDOW SAMPLE

CONTAMINANTS OF CONCERN

- METALS
- TPH
- PAH
- INORGANICS

Rev	Date	Amendment Details	Drw'n	Chk'd	App'd
P02	31/07/18	FINAL ISSUE	SF	MM	LC
P01.1	22/06/18	DRAFT	SF	MM	LC

Mott MacDonald Sweco

Client: highways england

Drawing Status: SHARED

Suitability: S4

Project Title: A63 (CASTLE STREET IMPROVEMENT, HULL)

Drawing Title: CONTAMINANTS IDENTIFIED IN GROUNDWATER (SUPERFICIAL) EXCEEDING GENERIC ASSESSMENT CRITERIA (DWS) SHEET 2 OF 2

Scale	Designed	Drawn	Checked	Approved
1:1250	May, Matthew	Flinn, Shane	May, Matthew	Cottrell, Linsey
Original Size	**Date**	**Date**	**Date**	**Date**
A1	29/11/16	29/11/16	29/11/16	29/11/16

Drawing Number: HE PIN 514508 - Originator MMSJV - Volume EGT - Location S0 - Type DR - Role LE - Number 000010

Project Ref. No.: 514508

Revision: P02

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Notes

Key to symbols

GEOTECHNICS 2013 SITE INVESTIGATION
- BH — CABLE PERCUSSIVE BOREHOLE
- BH — CABLE PERCUSSIVE WITH ROTARY CORING
- TP — TRIAL PIT
- SCPT — STATIC CONE PENETRATION TEST
- SBP — SELF BORING PRESSUREMETER
- BH — ROTARY OPEN HOLE
- WS — WINDOW SAMPLE
- LDBH — BOREHOLE

ESG 2015 SITE INVESTIGATION
- BH — BOREHOLE
- TP — TRIAL PIT
- WS — WINDOW SAMPLE

CONTAMINANTS OF CONCERN
- METALS
- TPH
- PAH
- INORGANICS

Rev	Date	Amendment Details	Drw'n	Chk'd	App'd
P02	31/07/18	FINAL ISSUE	SF	MM	LC
P01.1	22/06/18	DRAFT	SF	MM	LC

Mott MacDonald Sweco

Client: highways england

Drawing Status: SHARED

Suitability: S4

Project Title: A63 (CASTLE STREET IMPROVEMENT, HULL)

Drawing Title: CONTAMINANTS IDENTIFIED IN GROUNDWATER (CHALK) EXCEEDING GENERIC ASSESSMENT CRITERIA (DWS) SHEET 1 OF 2

Scale	Designed	Drawn	Checked	Approved
1:1250	May, Matthew	Finn, Shane	May, Matthew	Cottrell, Linsey
Original Size: A1	Date: 29/11/16	Date: 29/11/16	Date: 29/11/16	Date: 29/11/16

Drawing Number: HE PIN 514508 - Originator MMSJV - Volume EGT - Location S0 - Type DR - Role LE - Number 000011

Project Ref. No. 514508

Revision P02

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INSET A

KEY PLAN
SCALE 1:10000

INSET A
SCALE 1:1250

CUTLINE

1:1250 0 62.5m 125m

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Notes

Key to symbols

GEOTECHNICS 2013 SITE INVESTIGATION

- BH — CABLE PERCUSSIVE BOREHOLE
- BH — CABLE PERCUSSIVE WITH ROTARY CORING
- TP — TRIAL PIT
- SCPT — STATIC CONE PENETRATION TEST
- SBP — SELF BORING PRESSUREMETER
- BH — ROTARY OPEN HOLE
- WS — WINDOW SAMPLE
- LDBH — BOREHOLE

ESG 2015 SITE INVESTIGATION

- BH — BOREHOLE
- TP — TRIAL PIT
- WS — WINDOW SAMPLE

CONTAMINANTS OF CONCERN

- METALS
- TPH
- PAH
- INORGANICS

Rev	Date	Amendment Details	Drw'n	Chk'd	App'd
P02	31/07/18	FINAL ISSUE	SF	MM	LC
P01.1	22/06/18	DRAFT	SF	MM	LC

Mott MacDonald Sweco

Client: highways england

Drawing Status: SHARED

Suitability: S4

Project Title: A63 (CASTLE STREET IMPROVEMENT, HULL)

Drawing Title: CONTAMINANTS IDENTIFIED IN GROUNDWATER (CHALK) EXCEEDING GENERIC ASSESSMENT CRITERIA (DWS) SHEET 2 OF 2

Scale	Designed	Drawn	Checked	Approved
1:1250	May, Matthew	Flinn, Shane	May, Matthew	Cottrell, Linsey
Original Size	**Date**	**Date**	**Date**	**Date**
A1	29/11/16	29/11/16	29/11/16	29/11/16

Drawing Number: HE PIN 514508 - Originator MMSJV - Volume EGT - Location S0 - Type DR - Role LE - Number 000012

Project Ref. No.: 514508

Revision: P02

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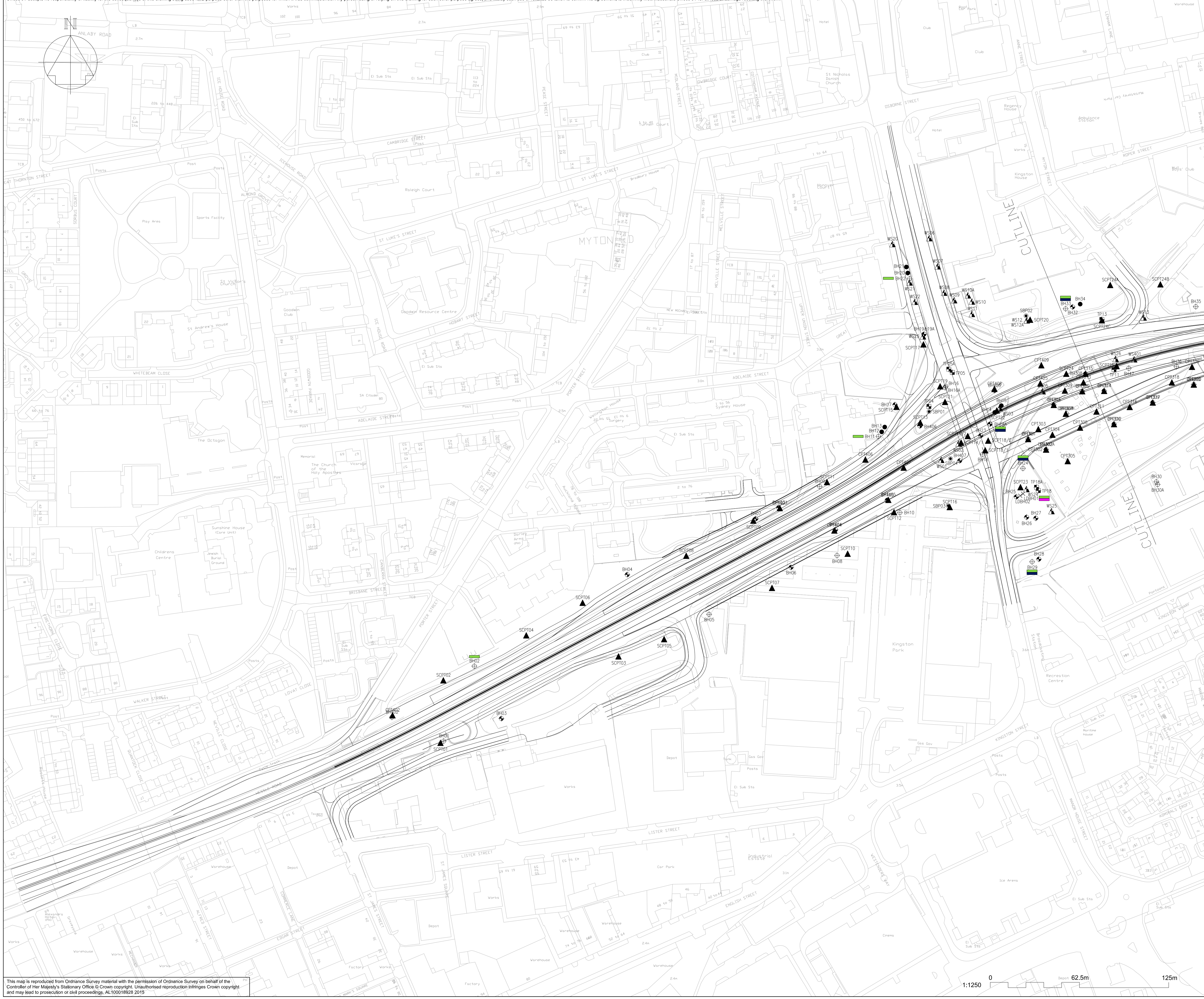

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Notes

Key to symbols

GEOTECHNICS 2013 SITE INVESTIGATION

- BH — CABLE PERCUSSIVE BOREHOLE
- BH — CABLE PERCUSSIVE WITH ROTARY CORING
- TP — TRIAL PIT
- SCPT — STATIC CONE PENETRATION TEST
- SBP — SELF BORING PRESSUREMETER
- BH — ROTARY OPEN HOLE
- WS — WINDOW SAMPLE
- LDBH — BOREHOLE

ESG 2015 SITE INVESTIGATION

- BH — BOREHOLE
- TP — TRIAL PIT
- WS — WINDOW SAMPLE

CONTAMINANTS OF CONCERN

- METALS
- PAH
- INORGANICS

Rev	Date	Amendment Details	Drw'n	Chk'd	App'd
P02	31/07/18	FINAL ISSUE	SF	MM	LC
P01.1	22/06/18	DRAFT	SF	MM	LC

Mott MacDonald Sweco

Client: highways england

Drawing Status: SHARED	Suitability: S4
Project Title: A63 (CASTLE STREET IMPROVEMENT, HULL)	
Drawing Title: CONTAMINANTS IDENTIFIED IN GROUNDWATER (CHALK) EXCEEDING GENERIC ASSESSMENT CRITERIA (EQS) SHEET 1 OF 2	

Scale	Designed	Drawn	Checked	Approved
1:1250	May, Matthew	Finn, Shane	May, Matthew	Cottrell, Linsey
Original Size	Date	Date	Date	Date
A1	29/11/16	29/11/16	29/11/16	29/11/16

Drawing Number: HE PIN 514508 - Originator MMSJV - Volume EGT - Location S0 - Type DR - Role LE - Number 000013

Project Ref. No. 514508

Revision P02

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INSET A

KEY PLAN
SCALE 1:10000

INSET A
SCALE 1:1250

CUTLINE

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1:1250 0 62.5m 125m

Notes

Key to symbols

GEOTECHNICS 2013 SITE INVESTIGATION

- BH — CABLE PERCUSSIVE BOREHOLE
- BH — CABLE PERCUSSIVE WITH ROTARY CORING
- TP — TRIAL PIT
- SCPT — STATIC CONE PENETRATION TEST
- SBP — SELF BORING PRESSUREMETER
- BH — ROTARY OPEN HOLE
- WS — WINDOW SAMPLE
- LDBH — BOREHOLE

ESG 2015 SITE INVESTIGATION

- BH — BOREHOLE
- TP — TRIAL PIT
- WS — WINDOW SAMPLE

CONTAMINANTS OF CONCERN

- METALS
- PAH
- INORGANICS

Rev	Date	Amendment Details	Drw'n	Chk'd	App'd
P02	31/07/18	FINAL ISSUE	SF	MM	LC
P01.1	22/06/18	DRAFT	SF	MM	LC

Mott MacDonald Sweco

Client: highways england

Drawing Status: SHARED

Suitability: S4

Project Title: A63 (CASTLE STREET IMPROVEMENT, HULL)

Drawing Title: CONTAMINANTS IDENTIFIED IN GROUNDWATER (CHALK) EXCEEDING GENERIC ASSESSMENT CRITERIA (EQS) SHEET 2 OF 2

Scale	Designed	Drawn	Checked	Approved
1:1250	May, Matthew	Flinn, Shane	May, Matthew	Cottrell, Linsey
Original Size: A1	Date: 29/11/16	Date: 29/11/16	Date: 29/11/16	Date: 29/11/16

Drawing Number: HE PIN 514508 - Originator MMSJV - Volume EGT - Location S0 - Type DR - Role LE - Number 000014

Project Ref. No.: 514508

Revision: P02

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Notes

Key to symbols

GEOTECHNICS 2013 SITE INVESTIGATION

- BH — CABLE PERCUSSIVE BOREHOLE
- BH — CABLE PERCUSSIVE WITH ROTARY CORING
- TP — TRIAL PIT
- SCPT — STATIC CONE PENETRATION TEST
- SBP — SELF BORING PRESSUREMETER
- BH — ROTARY OPEN HOLE
- WS — WINDOW SAMPLE
- LDBH — BOREHOLE

ESG 2015 SITE INVESTIGATION

- BH — BOREHOLE
- TP — TRIAL PIT
- WS — WINDOW SAMPLE

CONTAMINANTS OF CONCERN

- METALS
- PAH
- PHENOL

Rev	Date	Amendment Details	Drw'n	Chk'd	App'd
P02	31/07/18	FINAL ISSUE	SF	MM	LC
P01.1	22/06/18	DRAFT	SF	MM	LC

Mott MacDonald Sweco

Client: highways england

Drawing Status: SHARED

Suitability: S4

Project Title: A63 (CASTLE STREET IMPROVEMENT, HULL)

Drawing Title: CONTAMINANTS IDENTIFIED IN GROUNDWATER (SUPERFICIAL) EXCEEDING GENERIC ASSESSMENT CRITERIA (EQS) SHEET 1 OF 2

Scale	Designed	Drawn	Checked	Approved
1:1250	May, Matthew	Finn, Shane	May, Matthew	Cottrell, Linsey
Original Size	Date	Date	Date	Date
A1	29/11/16	29/11/16	29/11/16	29/11/16

Drawing Number: HE PIN | Originator | Volume — 514508 - MMSJV - EGT -

Location | Type | Role | Number — S0 - DR - LE - 000015

Project Ref. No.: 514508

Revision: P02

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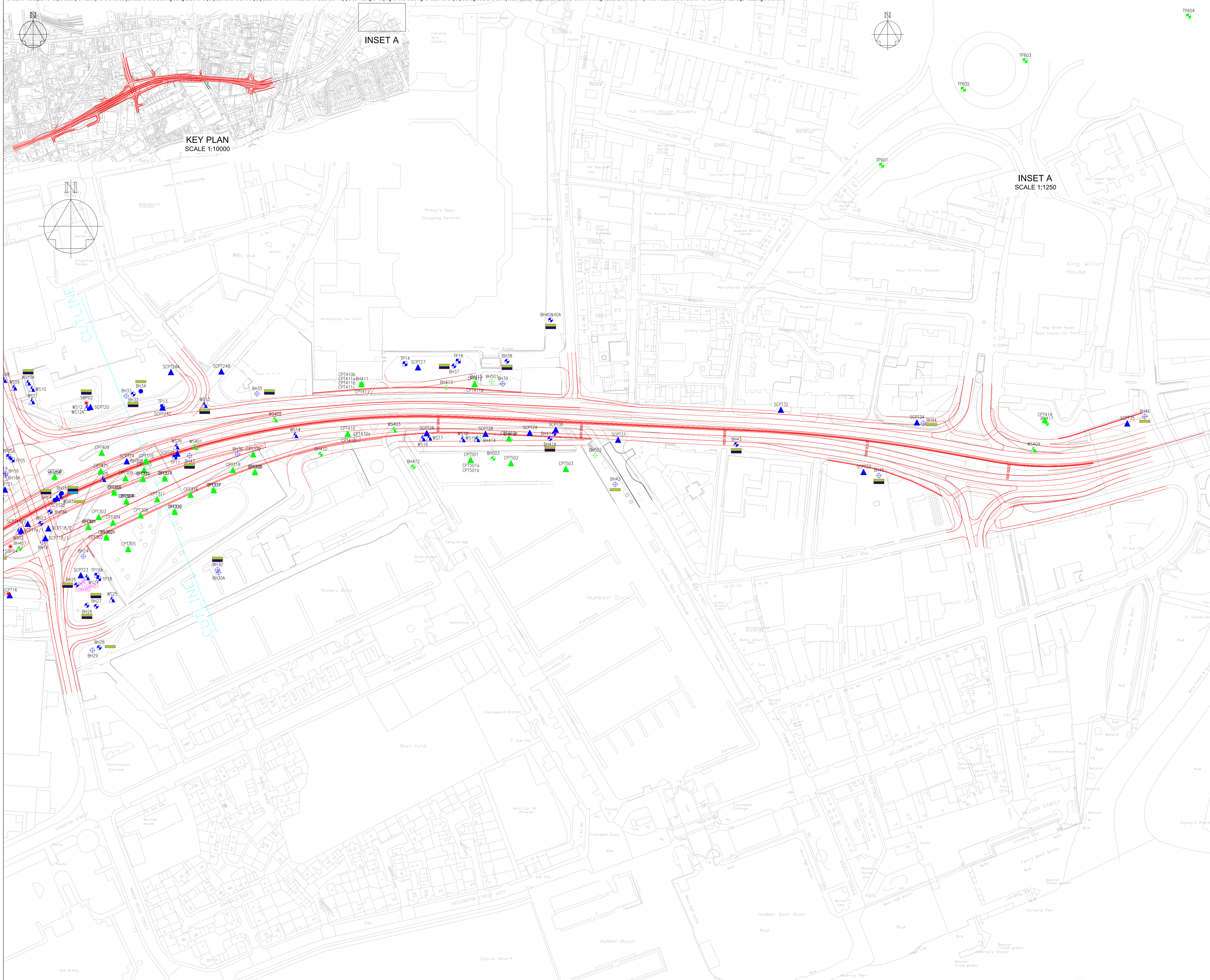

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Notes

1. GENERIC SCREEN TO EQS (ENVIRONMENTAL QUALITY STANDARDS) PROTECTIVE OF SURFACE WATER.

Key to symbols

GEOTECHNICS 2013 SITE INVESTIGATION

BH	CABLE PERCUSSIVE BOREHOLE
BH	CABLE PERCUSSIVE WITH ROTARY CORING
TP	TRIAL PIT
SCPT	STATIC CONE PENETRATION TEST
SBP	SELF BORING PRESSUREMETER
BH	ROTARY OPEN HOLE
WS	WINDOW SAMPLE
LDBH	BOREHOLE

ESG 2015 SITE INVESTIGATION

BH	BOREHOLE
TP	TRIAL PIT
WS	WINDOW SAMPLE

CONTAMINANTS OF CONCERN

- METALS
- PAH
- PHENOL

Rev	Date	Amendment Details	Drw'n	Chk'd	App'd
P02	31/07/18	FINAL ISSUE	SF	MM	LC
P01.1	22/06/18	DRAFT	SF	MM	LC

Mott MacDonald Sweco

Client: highways england

Drawing Status: SHARED

Suitability: S4

Project Title: A63 (CASTLE STREET IMPROVEMENT, HULL)

Drawing Title: CONTAMINANTS IDENTIFIED IN GROUNDWATER (SUPERFICIAL) EXCEEDING GENERIC ASSESSMENT CRITERIA (EQS) SHEET 2 OF 2

Scale	Designed	Drawn	Checked	Approved
1:1250	May, Matthew	Finn, Shane	May, Matthew	Cottrell, Linsey
Original Size	Date	Date	Date	Date
A1	29/11/16	29/11/16	29/11/16	29/11/16

Drawing Number: HE PIN | Originator | Volume: 514508 - MMSJV - EGT - S0 - DR - LE - 000016 (Location | Type | Role | Number)

Project Ref. No. 514508

Revision P02

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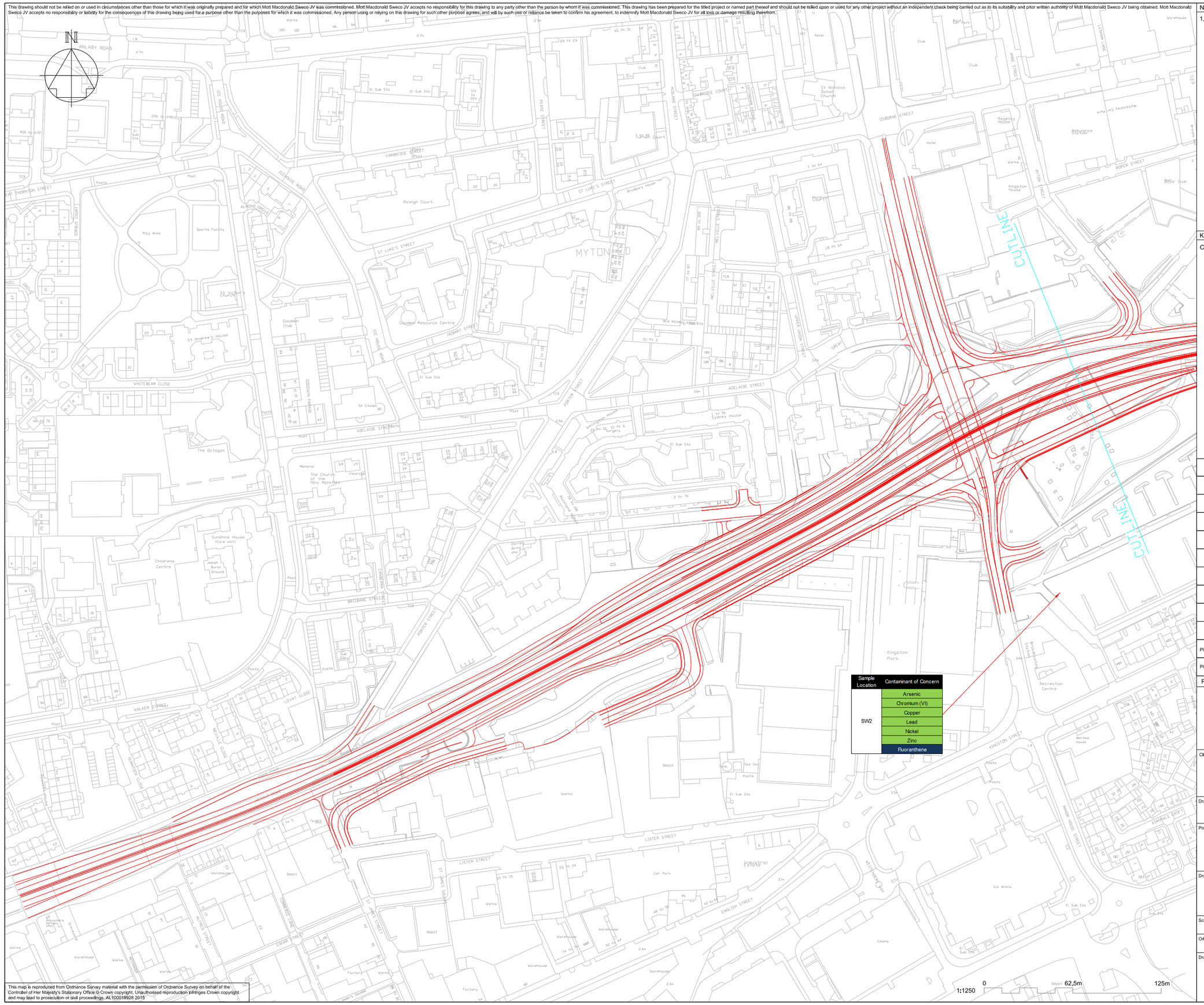

Notes

1. GENERIC SCREEN TO EQS (ENVIRONMENTAL QUALITY STANDARDS) PROTECTIVE OF SURFACE WATER.

Key to symbols

CONTAMINANTS OF CONCERN

- METALS
- PAH

Rev	Date	Amendment Details	Drw'n	Chk'd	App'd
P02	31/07/18	FINAL ISSUE	SF	MM	LC
P01.1	22/06/18	DRAFT	SF	MM	LC

Mott MacDonald Sweco

Client: highways england

Drawing Status	Suitability
SHARED	S4

Project Title: A63 CASTLE STREET IMPROVEMENTS, HULL

Drawing Title: CONTAMINANTS IDENTIFIED IN SURFACE WATER EXCEEDING GENERIC ASSESSMENT CRITERIA (EQS) SHEET 1 OF 2

Scale	Designed	Drawn	Checked	Approved
1:1250	May, Matthew	Flnn, Shane	May, Matthew	Cottrell, Linsey
Orlginal Size A1	Date 29/11/16	Date 29/11/16	Date 29/11/16	Date 29/11/16

Drawing Number: HE PIN 514508 - Originator MMSJV - Volume EGT - S0 - Location DR - Type LE - Role 000017 - Number

Project Ref. No. 514508

Revision P02

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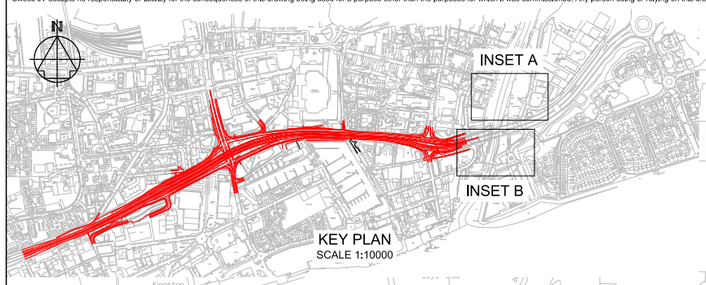

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Notes

1. GENERIC SCREEN TO EQS (ENVIRONMENTAL QUALITY STANDARDS) PROTECTIVE OF SURFACE WATER.

Key to symbols

CONTAMINANTS OF CONCERN

- METALS
- PAH

Rev	Date	Amendment Details	Drw'n	Chk'd	App'd
P02	31/07/18	FINAL ISSUE	SF	MM	LC
P01.1	22/06/18	DRAFT	SF	MM	LC

Mott MacDonald Sweco

Client: highways england

Drawing Status	Suitability
SHARED	S4

Project Title: A63 CASTLE STREET IMPROVEMENTS, HULL

Drawing Title: CONTAMINANTS IDENTIFIED IN SURFACE WATER EXCEEDING GENERIC ASSESSMENT CRITERIA (EQS) SHEET 2 OF 2

Scale	Designed	Drawn	Checked	Approved
1:1250	May, Matthew	Flnn, Shane	May, Matthew	Cottrell, Linsey
Original Size: A1	Date: 29/11/16	Date: 29/11/16	Date: 29/11/16	Date: 29/11/16

Drawing Number: 514508 - MMSJV - EGT - S0 - DR - LE - 000018
(HE PIN | Originator | Volume | Location | Type | Role | Number)

Project Ref. No.: 514508

Revision: P02

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Appendix A: Chemical analyses

A1: List of Analyses

A2: Incoming Results

A1: List of Analyses

Schedule Number	Sample Name	Report Number	Report Date	Soil Suite	Soil Suite - no asbes	TPH-CWG	BTEX/MTBE	foc	PCB	SVOC/VOC	Leachate Suite	Water Suite	Asbestos Screen	Asbestos ID/Quan	WAC	Fe - Total & Dissolved	Mn - Total & Dissolved
				183	**60**	**114**	**121**	**74**	**53**	**77**	**36**	**158**	**8**	**3**	**20**	**131**	**131**
1	BH35	339494-1	23/07/2013	✓													
2	BH35	Supplement to 340007-1	27/08/2013	✓		✓	✓										
	BH35			✓				✓									
	BH36			✓		✓	✓			✓							
	BH36			✓													
	BH36			✓				✓									
	SCPT25			✓		✓	✓			✓							
3	SCPT17	Supplement to 340007-1	27/08/2013	✓		✓	✓	✓									
4	BH19A	Supplement to 340957-2	27/08/2013	✓		✓	✓		✓	✓	✓						
	BH19A			✓		✓	✓			✓							
	BH19A				✓			✓									
	BH19A				✓			✓									
	BH19A				✓			✓									
	BH39			✓							✓						
5	BH39	Supplement to 340957-2	27/08/2013	✓		✓	✓										
	BH39			✓				✓									
	SCPT20			✓		✓	✓		✓	✓	✓						
6	BH39	341304-1	01/08/2013	✓				✓									
	SCPT11			✓		✓	✓	✓	✓	✓							
	SCPT15			✓				✓									
7	SCPT08	341304-1	01/08/2013	✓													
8	BH33	342275-2	07/08/2013	✓		✓	✓				✓						
	BH33			✓													
	SCPT09			✓		✓	✓	✓									
9	BH33	342275-2	07/08/2013		✓												
	BH33				✓												
	SCPT4			✓		✓	✓	✓									
	SCPT6			✓													
10	BH11	342322-3	07/08/2013	✓		✓	✓	✓									
	BH37			✓													
	BH37				✓					✓							
	BH37			✓		✓	✓	✓									
	BH37			✓		✓	✓	✓	✓	✓	✓						
	BH22			✓		✓	✓	✓		✓	✓						
	BH22			✓													
	BH22			✓													
	SCPT02			✓													
	BH04			✓													
	BH04			✓													
	BH02			✓													
	BH02			✓													
11	BH11	342322-3	07/08/2013		✓												
	BH11			✓				✓									
12	BH02	342710-2	14/08/2013	✓		✓	✓	✓			✓						
	BH02				✓												
13	BH40A	Supplement to 343384-1	19/08/2013	✓													
14	BH40A	Supplement to 343384-1	19/08/2013	✓		✓	✓				✓						
	BH40A			✓				✓									
15	BH03	Supplement to 343384-1	19/08/2013	✓				✓									
	MC03			✓													
	SCPT1			✓		✓	✓	✓		✓	✓						
	SCPT3c			✓													
	BH01			✓				✓									
	SCPT5B			✓													

Schedule Number	16		17	18			19		20		21	22	23		24			25				26		27					28	29				30					31		32				33			
Sample Name	BH04	BH04	BH40A	BH07	BH07	BH07	BH3	BH3	BH38	BH38	BH38	none	SCPT27	SCPT27	BH01	SCPT24	SCPT24	BH09	BH09	BH09	BH09	BH45	BH45	SCPT33	BH08	BH08	SCPT07	BH06	SCPT10	BH17	BH17	BH17	SBP03	BH06	BH06	BH43	BH43	BH43	BH43	BH05	BH05	BH05	SCPT30	BH42	BH42	SCPT29	BH29	BH29	BH24	SCPT23	BH29	BH10
Report Number	Supplement to 343384-1		344267-1	344267-1			344267-1		344267-1		344267-1	344267-1	345249-1		344267-1			345249-1				345249-1		345430-1					346303-1	345430-1				345430-1					345667-1				345667-1					345915-1			
Report Date	19/08/2013		22/08/2013	22/08/2013			22/08/2013		22/08/2013		22/08/2013	22/08/2013	27/08/2013		22/08/2013			27/08/2013				27/08/2013		28/08/2013					28/08/2013	28/08/2013				28/08/2013					30/08/2013				30/08/2013					30/08/2013			
Soil Suite	✓		✓	✓			✓		✓		✓		✓	✓		✓			✓				✓		✓					✓	✓				✓					✓				✓					✓	✓		✓
Soil Suite - no asbes			✓					✓									✓			✓			✓								✓				✓					✓												
TPH-CWG													✓							✓					✓					✓				✓					✓										✓		
BTEX/MTBE													✓							✓					✓					✓				✓					✓										✓		
foc				✓				✓							✓					✓			✓		✓					✓				✓					✓												
PCB					✓					✓					✓					✓					✓					✓				✓					✓												
SVOC/VOC					✓					✓					✓					✓					✓					✓				✓					✓												
Leachate Suite						✓					✓										✓					✓					✓				✓					✓												
Water Suite																																																			
Asbestos Screen																																																			
Asbestos ID/Quan																																																			
WAC																																																			
Fe - Total & Dissolved																																																		
Mn - Total & Dissolved																																																		

Schedule Number	Sample Name	Report Number	Report Date	Soil Suite	Soil Suite - no asbes	TPH-CWG	BTEX/MTBE	foc	PCB	SVOC/VOC	Leachate Suite	Water Suite	Asbestos Screen	Asbestos ID/Quan	WAC	Fe - Total & Dissolved	Mn - Total & Dissolved
34	BH10	Supplement to 346570-1	06/11/2013	✓	✓												
	BH26			✓													
	BH25			✓		✓	✓	✓	✓	✓							
	TP09			✓													
	TP10			✓				✓									
	BH27			✓		✓	✓		✓	✓							
35	BH29	Supplement to 346570-1	06/11/2013														
	SCPT13			✓							✓						
	SCPT19			✓		✓	✓		✓	✓							
36	SCPT21B	Supplement to 346570-1	06/11/2013	✓		✓	✓										
	WS18			✓		✓	✓										
	WS19			✓				✓									
	SW2																
	SW4																
	SW3																
	WS08			✓		✓	✓		✓	✓							
	WS06			✓		✓	✓				✓						
	WS06			✓													
	WS11			✓		✓	✓		✓	✓							
	WS10			✓		✓	✓		✓	✓							
	WS07			✓				✓									
	WS06			✓		✓	✓		✓	✓							
37	BH24	347221-1	09/09/2013	✓													
	BH24				✓			✓									
	BH24																
	BH24				✓			✓									
	WS08			✓													
	WS07				✓			✓									
	WS12			✓		✓	✓		✓	✓							
	WS12A			✓		✓	✓		✓	✓							
	SW6																
	SW5																
	BH16A			✓		✓	✓		✓	✓							
	BH16A			✓													
	BH16A			✓	✓												
	BH16A																
-	SCPT30	348289-1	10/09/2013														
	BH06																
	SCPT04																
	BH06																
38	WS10	347607-1	10/09/2013	✓													
	WS10			✓	✓	✓	✓	✓									
	WS09			✓		✓	✓										
	SCPT21			✓	✓	✓			✓	✓							
39	BH25	348078-1	10/09/2013	✓													
	BH25			✓													
	BH25				✓												
	BH18			✓		✓	✓		✓	✓							
	SCPT14			✓													
	BH30			✓				✓									
	BH30			✓	✓	✓	✓										
	WS12A				✓												
	SCPT28			✓													
	SCPT22			✓													
	TP05A			✓													
	TP05A			✓		✓	✓										
	TP04			✓		✓	✓										

Schedule Number	Sample Name	Report Number	Report Date	Soil Suite	Soil Suite - no asbes	TPH-CWG	BTEX/MTBE	foc	PCB	SVOC/VOC	Leachate Suite	Water Suite	Asbestos Screen	Asbestos ID/Quan	WAC	Fe - Total & Dissolved	Mn - Total & Dissolved
40	TP04	348302-1	16/09/2013	METALS													
	TP04			✓													
	WS09			✓				✓									
	WS18			✓		✓	✓										
	WS19			✓													
	WS19			✓		✓	✓	✓									
	BH30											✓					
	WS01			✓		✓	✓		✓	✓							
	WS01			✓													
	WS01				✓			✓			✓						
	WS02			✓													
	WS02				✓												
	SCPT14 TRENCH			✓		✓	✓		✓	✓							
	SCPT18			✓		✓	✓		✓	✓	✓						
41	BH30A	348302-1	16/09/2013		✓	✓	✓	✓		✓							
	BH30A				✓	✓	✓	✓		✓							
	BH27			✓				✓									
	BH27				✓			✓									
	BH44			✓													
	BH44			✓		✓	✓		✓	✓							
	SCPT26			✓													
	SCPT26			✓													
	SCPT34			✓		✓	✓										
	WS03			✓													
42	WS03	348302-1	16/09/2013		✓			✓									
	WS26			✓		✓	✓		✓								
	WS10A			✓		✓	✓			✓							
	WS10A			✓													
	WS10A				✓			✓									
	SCPT31			✓													
	WS24			✓													
	WS24				✓			✓									
	WS25			✓		✓	✓			✓	✓						
	WS25			✓		✓	✓			✓							
	WS25				✓	✓	✓	✓									
	WS26			✓		✓	✓			✓	✓						
	WS26			✓		✓	✓			✓							
	WS26			✓		✓	✓			✓	✓						
	WS26				✓	✓	✓										
43	BH47	349049-1	20/09/2013		✓			✓									
	BH47				✓	✓	✓	✓									
	TP18			✓		✓	✓		✓	✓	✓						
	TP18												✓				
	TP18			✓													
	TP18A			✓													
	TP18A				✓												
	BH23			✓		✓	✓		✓	✓							
	BH23				✓			✓							✓		
	BH14			✓													
	BH14				✓			✓									
	BH14														✓		
	WS12			✓		✓	✓										
44	WS11	349263-1	19/09/2013		✓			✓							✓		
	WS22			✓											✓		
	SCPT32			✓													

Schedule Number	Sample Name	Report Number	Report Date	Soil Suite	Soil Suite - no asbes	TPH-CWG	BTEX/MTBE	foc	PCB	SVOC/VOC	Leachate Suite	Water Suite	Asbestos Screen	Asbestos ID/Quan	WAC	Fe - Total & Dissolved	Mn - Total & Dissolved
WAC	BH17	349285-1	19/09/2013														
	WS01																
	WS03																
	TP05A																
	TP04																
	BH16A																
	BH25																
	BH10																
	WS26																
	BH09																
	BH01																
45	BH46	Supplement to 350010-1	14/10/2013	✓		✓	✓										
	BH46				✓												
	WS23			✓		✓	✓										
	WS13			✓	✓												
	TP16			✓													
	TP16			✓													
	TP16			✓		✓	✓										
	WS22			✓	✓												
	WS21			✓													
	WS21			✓	✓												
	TP14			✓		✓	✓										
	TP14			✓													
	TP14			✓													
45W	SW2	Supplement to 349248-1	16/09/2013														
	SW3																
	BH26																
	BH27																
	BH24																
	BH25																
46	BH41	Supplement to 350010-1	14/10/2013	✓													
	WS20			✓	✓			✓									
	WS20			✓		✓	✓		✓	✓							
	WS20			✓				✓									
47	BH41	Supplement to 350010-1	14/10/2013	✓													
	BH41			✓		✓	✓		✓	✓							
	BH44			✓													
	BH44			✓	✓			✓									
	BH44			✓													
	BH44			✓													
	SCPT24A			✓													
	WS17			✓													
	WS16			✓													
	WS05			✓													
	WS14			✓													
48	TP11	Supplement to 350010-1	14/10/2013	✓		✓	✓		✓	✓	✓						
	TP11			✓													
	TP11			✓		✓	✓		✓	✓							
	TP11			✓													
	TP11			✓		✓	✓		✓	✓							
	BH41A				✓												
49	SCPT35	350456-1	26/09/2013	✓													
	WS05			✓		✓	✓		✓	✓			✓		✓		
	WS05				✓			✓									
	WS14			✓		✓	✓		✓	✓			✓		✓		

Schedule Number	Sample Name	Report Number	Report Date	Soil Suite	Soil Suite - no asbes	TPH-CWG	BTEX/MTBE	foc	PCB	SVOC/VOC	Leachate Suite	Water Suite	Asbestos Screen	Asbestos ID/Quan	WAC	Fe - Total & Dissolved	Mn - Total & Dissolved
50	WS14	350456-1	26/09/2013														
	WS14				✓			✓									
51	BH24	Supplement 350954-1	25/09/2013									✓					
	BH18A											✓					
	BH29											✓					
Alkalinity	SW1	350510-1	23/09/2013									CaCO3					
	SW2											CaCO3					
	SW3											CaCO3					
	SW4											CaCO3					
	SW5											CaCO3					
	SW6											CaCO3					
	SW2											CaCO3					
	SW3											CaCO3					
52	BH02	353522-1	15/10/2013									✓				✓	✓
	BH04											✓				✓	✓
	BH07											✓				✓	✓
	BH12											✓				✓	✓
	BH11											✓				✓	✓
	BH13											✓				✓	✓
	BH19											✓				✓	✓
	BH22											✓				✓	✓
	BH20											✓				✓	✓
	BH32											✓				✓	✓
	BH33											✓				✓	✓
	BH34											✓				✓	✓
53	BH37	353722-1	18/10/2013									✓				✓	✓
	BH38											✓				✓	✓
	BH40A											✓				✓	✓
	BH44											✓				✓	✓
	BH46											✓				✓	✓
	BH45											✓				✓	✓
	BH43											✓				✓	✓
	BH41A											✓				✓	✓
	BH25											✓				✓	✓
	BH27											✓				✓	✓
	BH28											✓				✓	✓
	D1											✓				✓	✓
54	BH01	354130-1	21/10/2013									✓				✓	✓
	BH-3											✓				✓	✓
	BH05											✓				✓	✓
	BH06											✓				✓	✓
	BH18A											✓				✓	✓
	BH15											✓				✓	✓
	BH24											✓				✓	✓
	BH26											✓				✓	✓
	BH21											✓				✓	✓
	BH14											✓				✓	✓
	BH47											✓				✓	✓
	BH42											✓				✓	✓
	BH30											✓				✓	✓
	H35 SHALLC											✓				✓	✓
	BH35 DEEP											✓				✓	✓
	BH02											✓				✓	✓
	BH04											✓				✓	✓
	BH07					✓	✓		✓	✓		✓				✓	✓
	BH11											✓				✓	✓
	BH12											✓				✓	✓

Schedule Number	Sample Name	Report Number	Report Date	Soil Suite	Soil Suite - no asbes	TPH-CWG	BTEX/MTBE	foc	PCB	SVOC/VOC	Leachate Suite	Water Suite	Asbestos Screen	Asbestos ID/Quan	WAC	Fe - Total & Dissolved	Mn - Total & Dissolved
55	BH13	357426-2	06/11/2013									✓				✓	✓
	BH19A					✓	✓		✓	✓		✓				✓	✓
	BH20					✓	✓		✓	✓		✓				✓	✓
	BH21					✓	✓		✓	✓		✓				✓	✓
	WS10A											✓				✓	✓
	BH34											✓				✓	✓
	BH32											✓				✓	✓
	BH33											✓				✓	✓
	D3											✓				✓	✓
56	WS13	357426-2	06/11/2013			✓	✓			✓		✓				✓	✓
	BH37									✓		✓				✓	✓
	BH40A					✓	✓					✓				✓	✓
	3H35 (DEEP					✓	✓			✓		✓				✓	✓
	35 (SHALLC					✓	✓			✓		✓				✓	✓
	BH38								✓			✓				✓	✓
	BH44											✓				✓	✓
	BH46											✓				✓	✓
	D4											✓				✓	✓
57	SW1	Second supplement to 358157-1	22/11/2013				✓					CaCO3				✓	✓
	SW2						✓					CaCO3				✓	✓
	SW3						✓					CaCO3				✓	✓
	SW5						✓					CaCO3				✓	✓
	SW6						✓					CaCO3				✓	✓
	SW4						✓					CaCO3				✓	✓
	BH43						✓					✓				✓	✓
	BH42						✓					✓				✓	✓
58	BH45	Second supplement to 358157-1	22/11/2013									✓				✓	✓
	BH41A						✓		✓	✓		✓				✓	✓
	BH47											✓				✓	✓
	D5											✓				✓	✓
	BH29					✓	✓			✓		✓				✓	✓
	BH24					✓	✓		✓	✓		✓				✓	✓
	BH25								✓			✓				✓	✓
	BH26					✓	✓			✓		✓				✓	✓
	BH27											✓				✓	✓
	BH06								✓			✓				✓	✓
	BH05					✓	✓			✓		✓				✓	✓
	BH03											✓				✓	✓
	BH01					✓	✓			✓		✓				✓	✓
	WS20								✓			✓				✓	✓
	SBP02											✓				✓	✓
59	WS01	Second supplement to 358157-1	22/11/2013									✓				✓	✓
	WS03											✓				✓	✓
	BH14					✓	✓			✓		✓				✓	✓
	BH15					✓	✓			✓		✓				✓	✓
	BH18A					✓	✓		✓	✓		✓				✓	✓
	D6											✓				✓	✓
60	LDBH_01 (A	363724-1	04/12/2013									CaCO3				✓	✓
	LDBH_01 (B											CaCO3				✓	✓
61	BH24	Supplement to 363949-2	05/12/2013									CaCO3				✓	✓
	BH29											CaCO3				✓	✓
62	SW2	365243-1	18/12/2013									✓					
	SW3											✓					
63	LDBH_01	365963-1	20/12/2013														
	SW2																

Schedule Number	Sample Name	Report Number	Report Date	Soil Suite	Soil Suite - no asbes	TPH-CWG	BTEX/MTBE	foc	PCB	SVOC/VOC	Leachate Suite	Water Suite	Asbestos Screen	Asbestos ID/Quan	WAC	Fe - Total & Dissolved	Mn - Total & Dissolved
	SW3																
64	LDBH_01	365970-1	23/12/2013									CaCO3				✓	✓
65	LDBH_01	366180-1	23/12/2013									CaCO3				✓	✓
	SW2											✓				✓	✓
	SW3											✓				✓	✓
66	LDBH_01	366484-1	19/12/2013									CaCO3					
67	BH02	367591-1										✓				✓	✓
	BH04						✓					✓				✓	✓
	BH12						✓					✓				✓	✓
	BH13						✓					✓				✓	✓
68	BH07	367591-1				✓						✓				✓	✓
	BH21											✓				✓	✓
	BH20											✓				✓	✓
	BH22					✓	✓					✓				✓	✓
	BH33						✓					✓				✓	✓
	SBP02					✓	✓			✓		✓				✓	✓
	WS10A					✓	✓					✓				✓	✓
	BH35 DEEP					✓						✓				✓	✓
	BH30					✓	✓					✓				✓	✓
	BH28						✓					✓				✓	✓
	BH29					✓						✓				✓	✓
	SW5											CaCO3				✓	✓
	SW6											CaCO3				✓	✓
	SW4											CaCO3				✓	✓
	SW3											CaCO3				✓	✓
	SW2											CaCO3				✓	✓
	SW1											CaCO3				✓	✓
	BH41A					✓						✓				✓	✓
69	BH05	368394-1				✓						✓				✓	✓
	BH03						✓					✓				✓	✓
	BH24					✓						✓				✓	✓
	BH25						✓					✓				✓	✓
	BH26											✓				✓	✓
	LBH01						✓					CaCO3				✓	✓
	BH15					✓						✓				✓	✓
	BH14											✓				✓	✓
	BH18A											✓				✓	✓
	WS01						✓					✓				✓	✓

✓ **Water Sample**

✓ **Soil Sample**

A2: Incoming Results

Scientific Analysis Laboratories is a
limited company registered in England and
Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 339494-1

Date of Report: 23-Jul-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Zoe Miller

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 01
Date Job Received at SAL: 06-Jul-2013
Date Analysis Started: 11-Jul-2013
Date Analysis Completed: 22-Jul-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

[redacted]

SAL Reference: 339494
Project Site: A63 Castle St - 01
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

SAL Reference	**339494 002**
Customer Sample Reference	**BH35 0.5 ES3**
Date Sampled	**05-JUL-2013**
Top Depth	**0.5**
Type	**Sandy Soil**

Determinand	Method	Test Sample	LOD	Units	
Moisture @ 105 C	T162	AR	0.1	%	**24**
Moisture	T277	AR	0.1	%	**22**
Asbestos ID	T27	AR			N.D.
pH	T7	AR			**8.7**
Arsenic	T6	M40	2	mg/kg	**18**
Boron (water-soluble)	T6	AR	1	mg/kg	<1
Cadmium	T6	M40	1	mg/kg	<1
Chromium	T6	M40	1	mg/kg	**11**
Chromium (trivalent)	T85	AR	2	mg/kg	**11**
Chromium VI	T6	AR	1	mg/kg	<1
Copper	T6	M40	1	mg/kg	**47**
Lead	T6	M40	1	mg/kg	**250**
Mercury	T6	M40	1	mg/kg	<1
Nickel	T6	M40	1	mg/kg	**12**
Selenium	T6	M40	3	mg/kg	<3
Zinc	T6	M40	1	mg/kg	**65**
Cyanide(Total)	T546	AR	1	mg/kg	<1
Cyanide(free)	T546	AR	1	mg/kg	<1
SO4(Total)	T6	M40	0.01	%	**0.29**
Total Phenols	T149	AR	0.01	mg/kg	<0.01
Acenaphthene	T207	M105	0.1	mg/kg	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1
Chrysene	T207	M105	0.1	mg/kg	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1
PAH(total)	T207	M105	0.1	mg/kg	<0.1
TPH (C8-C10)	T8	M105	1	mg/kg	(3) <10
TPH (C10-C12)	T206	M105	1	mg/kg	(3) <10
TPH (C12-C16)	T206	M105	1	mg/kg	(3) <10
TPH (C16-C21)	T206	M105	1	mg/kg	(3) <10
TPH (C21-C35)	T206	M105	1	mg/kg	(3) <10
TPH (C35-C40)	T8	M105	1	mg/kg	(3) <10
TPH (C8 - C40)	T85	M105	1	mg/kg	(3) <10

Index to symbols used in 339494-1

Value	Description
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
AR	As Received

N.D.	Not Detected
3	LOD Raised Due to Elevated Blank
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T8	GC/FID
T207	GC/MS(MCERTS)
T27	PLM
T7	Probe
T277	Grav (1 Dec) (40 C)
T162	Grav (1 Dec) (105 C)
T546	Colorimetry (CF)
T85	Calc
T206	GC/FID (MCERTS)
T6	ICP/OES
T149	GC/MS (SIR)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture @ 105 C	T162	AR	0.1	%	N	002
Moisture	T277	AR	0.1	%	N	002
Asbestos ID	T27	AR			SU	002
pH	T7	AR			M	002
Arsenic	T6	M40	2	mg/kg	M	002
Boron (water-soluble)	T6	AR	1	mg/kg	N	002
Cadmium	T6	M40	1	mg/kg	M	002
Chromium	T6	M40	1	mg/kg	M	002
Chromium (trivalent)	T85	AR	2	mg/kg	N	002
Chromium VI	T6	AR	1	mg/kg	N	002
Copper	T6	M40	1	mg/kg	M	002
Lead	T6	M40	1	mg/kg	M	002
Mercury	T6	M40	1	mg/kg	M	002
Nickel	T6	M40	1	mg/kg	M	002
Selenium	T6	M40	3	mg/kg	M	002
Zinc	T6	M40	1	mg/kg	M	002
Cyanide(Total)	T546	AR	1	mg/kg	M	002
Cyanide(free)	T546	AR	1	mg/kg	M	002
SO4(Total)	T6	M40	0.01	%	N	002
Total Phenols	T149	AR	0.01	mg/kg	U	002
Acenaphthene	T207	M105	0.1	mg/kg	M	002
Acenaphthylene	T207	M105	0.1	mg/kg	U	002
Anthracene	T207	M105	0.1	mg/kg	U	002
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	002
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	002
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	002
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	002
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	002
Chrysene	T207	M105	0.1	mg/kg	M	002
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	002
Fluoranthene	T207	M105	0.1	mg/kg	M	002
Fluorene	T207	M105	0.1	mg/kg	M	002
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	002
Naphthalene	T207	M105	0.1	mg/kg	M	002
Phenanthrene	T207	M105	0.1	mg/kg	M	002
Pyrene	T207	M105	0.1	mg/kg	M	002
PAH(total)	T207	M105	0.1	mg/kg	U	002
TPH (C8-C10)	T8	M105	1	mg/kg	N	002
TPH (C10-C12)	T206	M105	1	mg/kg	M	002
TPH (C12-C16)	T206	M105	1	mg/kg	M	002
TPH (C16-C21)	T206	M105	1	mg/kg	M	002
TPH (C21-C35)	T206	M105	1	mg/kg	M	002
TPH (C35-C40)	T8	M105	1	mg/kg	N	002
TPH (C8 - C40)	T85	M105	1	mg/kg	N	002

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: Supplement to 340007-1

Date of Report: 27-Aug-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 02 and 03
Date Job Received at SAL: 10-Jul-2013
Date Analysis Started: 15-Jul-2013
Date Analysis Completed: 24-Jul-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Lianne Bromiley
Project Manager

Issued by :
Lianne Bromiley
Project Manager

[redacted]

SAL Reference: 340007
Project Site: A63 Castle St - 02 and 03
Customer Reference: 112630

Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**340007 001**	**340007 005**	**340007 012**	**340007 013**	**340007 014**	**340007 023**	**340007 030**
				Customer Sample Reference	**BH35 1.8 ES 007**	**BH35 5.8 ES 027**	**SCPT25 1.1 ES 002**	**BH36 0.45 ES 001**	**BH36 1 ES 002**	**BH36 7.1 ES 011**	**SCPT17 0.5 ES 001**
				Date Sampled	**08-JUL-2013**	**08-JUL-2013**	**08-JUL-2013**	**08-JUL-2013**	**08-JUL-2013**	**08-JUL-2013**	**09-JUL-2013**
				Top Depth	**1.8**	**5.8**	**1.1**	**0.45**	**1**	**7.1**	**0.5**
				Type	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Moisture @ 105 C	T162	AR	0.1	%	**32**	**29**	**20**	**7.9**	**22**	**32**	**16**
Moisture	T277	AR	0.1	%	**26**	**22**	**17**	**9.2**	**20**	**27**	**14**
Asbestos ID	T27	AR			N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
pH	T7	AR			**7.8**	**8.2**	**7.9**	**7.6**	**7.9**	**7.9**	**8.5**
Mass Fraction of organic carbon	T286	M40			-	**0.014**	-	-	-	**0.013**	**0.020**
Arsenic	T6	M40	2	mg/kg	**20**	**11**	**18**	**28**	**13**	**14**	**23**
Boron (water-soluble)	T6	M40	1	mg/kg	<1	<1	<1	**2**	**29**	**18**	**3**
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	**3**	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**52**	**33**	**39**	**33**	**41**	**31**	**17**
Chromium (trivalent)	T85	AR	2	mg/kg	**52**	**33**	**39**	**33**	**41**	**31**	**17**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**31**	**13**	**42**	**2900**	**150**	**14**	**49**
Lead	T6	M40	1	mg/kg	**100**	**16**	**260**	**970**	**60**	**15**	**760**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	**1**	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**34**	**23**	**29**	**58**	**30**	**22**	**12**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**110**	**61**	**83**	**1900**	**160**	**59**	**91**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.15**	**0.61**	**0.14**	**0.20**	**0.57**	**0.97**	**0.29**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	**0.22**	<0.01	<0.01	**0.77**
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.6**	<0.1	<0.1	**0.4**
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**1.5**	<0.1	<0.1	**0.7**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**3.2**	<0.1	<0.1	**2.0**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**2.1**	<0.1	<0.1	**1.5**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**2.1**	<0.1	<0.1	**1.5**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**1.4**	<0.1	<0.1	**0.9**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**1.8**	<0.1	<0.1	**1.6**
Chrysene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**3.0**	<0.1	<0.1	**1.9**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.3**	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**6.6**	<0.1	<0.1	**5.0**
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.5**	<0.1	<0.1	**0.3**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**1.1**	<0.1	<0.1	**0.7**
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.3**	<0.1	<0.1	**0.5**
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**5.6**	<0.1	<0.1	**3.3**
Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**5.5**	<0.1	<0.1	**4.2**
PAH(total)	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**36**	<0.1	<0.1	**25**
TPH (C8-C10)	T8	M105	1	mg/kg	-	<1	-	-	<1	<1	-
TPH (C10-C12)	T206	M105	1	mg/kg	-	<1	-	-	<1	<1	-
TPH (C12-C16)	T206	M105	1	mg/kg	-	<1	-	-	**3**	<1	-
TPH (C16-C21)	T206	M105	1	mg/kg	-	<1	-	-	<1	<1	-
TPH (C21-C35)	T206	M105	1	mg/kg	-	<1	-	-	**2**	<1	-
TPH (C35-C40)	T8	M105	1	mg/kg	-	<1	-	-	<1	<1	-
TPH (C8 - C40)	T85	M105	1	mg/kg	-	<1	-	-	**5**	<1	-
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	<0.100	-	<0.100	<0.100	-	-	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	<0.10	-	<0.10	<0.10	-	-	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	<0.10	-	<0.10	<0.10	-	-	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	<1	-	<1	<1	-	-	<1
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	<2	-	<2	<2	-	-	<2
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	<1	-	**1**	**9**	-	-	**2**
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	<4	-	**13**	**41**	-	-	**6**
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	<1	-	**4**	**5**	-	-	<1
TPH (Aliphatic) total	T85	M105		mg/kg	N.D.	-	**18**	**55**	-	-	**8.0**

SAL Reference: 340007
Project Site: A63 Castle St - 02 and 03
Customer Reference: 112630

Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**340007 001**	**340007 005**	**340007 012**	**340007 013**	**340007 014**	**340007 023**	**340007 030**
				Customer Sample Reference	**BH35 1.8 ES 007**	**BH35 5.8 ES 027**	**SCPT25 1.1 ES 002**	**BH36 0.45 ES 001**	**BH36 1 ES 002**	**BH36 7.1 ES 011**	**SCPT17 0.5 ES 001**
				Date Sampled	**08-JUL-2013**	**08-JUL-2013**	**08-JUL-2013**	**08-JUL-2013**	**08-JUL-2013**	**08-JUL-2013**	**09-JUL-2013**
				Top Depth	**1.8**	**5.8**	**1.1**	**0.45**	**1**	**7.1**	**0.5**
				Type	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
TPH (C6-C7 aromatic)	T209	M105	0.100	mg/kg	<0.100	-	<0.100	<0.100	-	-	<0.100
TPH (C7-C8 aromatic)	T209	M105	0.100	mg/kg	<0.100	-	<0.100	<0.100	-	-	<0.100
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	<0.10	-	<0.10	<0.10	-	-	<0.10
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	<1	-	<1	<1	-	-	<1
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	<1	-	<1	**4**	-	-	**4**
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	<1	-	<1	**32**	-	-	**26**
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	<1	-	**11**	**78**	-	-	**82**
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	<1	-	**5**	**16**	-	-	**22**
TPH (Aromatic) total	T85	M105		mg/kg	N.D.	-	**16**	**130**	-	-	**130**
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N.D.	-	**34**	**190**	-	-	**140**
Benzene	T209	M105	0.010	mg/kg	<0.010	-	<0.010	<0.010	-	-	<0.010
Toluene	T209	M105	0.010	mg/kg	<0.010	-	<0.010	<0.010	-	-	<0.010
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	-	<0.010	<0.010	-	-	<0.010
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	<0.010	-	<0.010	<0.010	-	-	<0.010
O Xylene	T209	M105	0.010	mg/kg	<0.010	-	<0.010	<0.010	-	-	<0.010
M/P Xylene	T209	M105	0.010	mg/kg	<0.010	-	<0.010	<0.010	-	-	<0.010

SAL Reference: 340007
Project Site: A63 Castle St - 02 and 03
Customer Reference: 112630

Soil Analysed as Soil

Volatile Organic Compounds (USEPA 624) (MCERTS)

				SAL Reference	**340007 012**	**340007 013**
				Customer Sample Reference	**SCPT25 1.1 ES 002**	**BH36 0.45 ES 001**
				Date Sampled	**08-JUL-2013**	**08-JUL-2013**
				Top Depth	**1.1**	**0.45**
				Type	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,1-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	<0.050
1,1-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
1,2-dibromoethane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
1,2-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
1,3-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
2,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050
2-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	<0.050
4-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	<0.050
Benzene	T209	M105	0.010	mg/kg	<0.010	<0.010
Bromobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
Bromochloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Bromodichloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Bromoform	T209	M105	0.050	mg/kg	<0.050	<0.050
Bromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Carbon tetrachloride	T209	M105	0.050	mg/kg	<0.050	<0.050
Chlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
Chlorodibromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Chloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Chloroform	T209	M105	0.050	mg/kg	<0.050	<0.050
Chloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	<0.050
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050
Dibromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Dichloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	<0.010
Isopropyl benzene	T209	M105	0.050	mg/kg	<0.050	<0.050
M/P Xylene	T209	M105	0.010	mg/kg	<0.010	<0.010
n-Propylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
O Xylene	T209	M105	0.010	mg/kg	<0.010	<0.010
p-Isopropyltoluene	T209	M105	0.050	mg/kg	<0.050	<0.050
S-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
Styrene	T209	M105	0.050	mg/kg	<0.050	<0.050
T-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
Tetrachloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050
Toluene	T209	M105	0.010	mg/kg	<0.010	<0.010
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050
Trichloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050
Trichlorofluoromethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Vinyl chloride	T209	M105	0.050	mg/kg	<0.050	<0.050

SAL Reference: 340007
Project Site: A63 Castle St - 02 and 03
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

SAL Reference	**340007 012**	**340007 013**
Customer Sample Reference	**SCPT25 1.1 ES 002**	**BH36 0.45 ES 001**
Date Sampled	**08-JUL-2013**	**08-JUL-2013**
Top Depth	**1.1**	**0.45**
Type	**Sandy Soil**	**Sandy Soil**

Determinand	Method	Test Sample	LOD	Units		
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	<0.1	**1.0**
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1
4-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	**0.6**
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	**1.5**
Azobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	**3.2**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**2.1**
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**17**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**1.4**
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	<0.1	**0.5**
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1
Carbazole	T207	M105	0.1	mg/kg	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	<0.1	**3.0**
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.3**
Dibenzofuran	T207	M105	0.1	mg/kg	<0.1	**2.0**
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**6.6**
Fluorene	T207	M105	0.1	mg/kg	<0.1	**0.5**
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**1.1**
Isophorone	T207	M105	0.1	mg/kg	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	**0.3**
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**5.6**

SAL Reference: 340007
Project Site: A63 Castle St - 02 and 03
Customer Reference: 112630

Soil Analysed as Soil
Semi-Volatile Organic Compounds (USEPA 625)

				SAL Reference	**340007 012**	**340007 013**
				Customer Sample Reference	**SCPT25 1.1 ES 002**	**BH36 0.45 ES 001**
				Date Sampled	**08-JUL-2013**	**08-JUL-2013**
				Top Depth	**1.1**	**0.45**
				Type	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Phenol	T207	M105	0.1	mg/kg	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	**5.5**

Index to symbols used in Supplement to 340007-1

Value	Description
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
AR	As Received
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
N.D.	Not Detected
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Supplemental report issued to amend the depth for sample 12

Method Index

Value	Description
T6	ICP/OES
T149	GC/MS (SIR)
T286	Calc TOC/100
T206	GC/FID (MCERTS)
T546	Colorimetry (CF)
T207	GC/MS(MCERTS)
T8	GC/FID
T209	GC/MS(Head Space)(MCERTS)
T7	Probe
T27	PLM
T85	Calc
T162	Grav (1 Dec) (105 C)
T277	Grav (1 Dec) (40 C)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture @ 105 C	T162	AR	0.1	%	N	001,005,012-014,023,030
Moisture	T277	AR	0.1	%	N	001,005,012-014,023,030
Asbestos ID	T27	AR			SU	001,005,012-014,023,030
pH	T7	AR			M	001,005,012-014,023,030
Mass Fraction of organic carbon	T286	M40			N	005,023,030
Arsenic	T6	M40	2	mg/kg	M	001,005,012-014,023,030
Boron (water-soluble)	T6	M40	1	mg/kg	N	001,005,012-014,023,030
Cadmium	T6	M40	1	mg/kg	M	001,005,012-014,023,030
Chromium	T6	M40	1	mg/kg	M	001,005,012-014,023,030
Chromium (trivalent)	T85	AR	2	mg/kg	N	001,005,012-014,023,030

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Chromium VI	T6	AR	1	mg/kg	N	001,005,012-014,023,030
Copper	T6	M40	1	mg/kg	M	001,005,012-014,023,030
Lead	T6	M40	1	mg/kg	M	001,005,012-014,023,030
Mercury	T6	M40	1	mg/kg	M	001,005,012-014,023,030
Nickel	T6	M40	1	mg/kg	M	001,005,012-014,023,030
Selenium	T6	M40	3	mg/kg	M	001,005,012-014,023,030
Zinc	T6	M40	1	mg/kg	M	001,005,012-014,023,030
Cyanide(Total)	T546	AR	1	mg/kg	M	001,005,012-014,023,030
Cyanide(free)	T546	AR	1	mg/kg	M	001,005,012-014,023,030
SO4(Total)	T6	M40	0.01	%	N	001,005,012-014,023,030
Total Phenols	T149	AR	0.01	mg/kg	U	001,005,012-014,023,030
Acenaphthene	T207	M105	0.1	mg/kg	M	001,005,012-014,023,030
Acenaphthylene	T207	M105	0.1	mg/kg	U	001,005,012-014,023,030
Anthracene	T207	M105	0.1	mg/kg	U	001,005,012-014,023,030
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	001,005,012-014,023,030
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	001,005,012-014,023,030
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	001,005,012-014,023,030
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	001,005,012-014,023,030
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	001,005,012-014,023,030
Chrysene	T207	M105	0.1	mg/kg	M	001,005,012-014,023,030
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	001,005,012-014,023,030
Fluoranthene	T207	M105	0.1	mg/kg	M	001,005,012-014,023,030
Fluorene	T207	M105	0.1	mg/kg	M	001,005,012-014,023,030
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	001,005,012-014,023,030
Naphthalene	T207	M105	0.1	mg/kg	M	001,005,012-014,023,030
Phenanthrene	T207	M105	0.1	mg/kg	M	001,005,012-014,023,030
Pyrene	T207	M105	0.1	mg/kg	M	001,005,012-014,023,030
PAH(total)	T207	M105	0.1	mg/kg	U	001,005,012-014,023,030
TPH (C8-C10)	T8	M105	1	mg/kg	N	005,014,023
TPH (C10-C12)	T206	M105	1	mg/kg	M	005,014,023
TPH (C12-C16)	T206	M105	1	mg/kg	M	005,014,023
TPH (C16-C21)	T206	M105	1	mg/kg	M	005,014,023
TPH (C21-C35)	T206	M105	1	mg/kg	M	005,014,023
TPH (C35-C40)	T8	M105	1	mg/kg	N	005,014,023
TPH (C8 - C40)	T85	M105	1	mg/kg	N	005,014,023
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	N	001,012-013,030
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	N	001,012-013,030
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	N	001,012-013,030
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	M	001,012-013,030
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	M	001,012-013,030
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	M	001,012-013,030
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	M	001,012-013,030
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	N	001,012-013,030
TPH (Aliphatic) total	T85	M105		mg/kg	N	001,012-013,030
TPH (C6-C7 aromatic)	T209	M105	0.100	mg/kg	N	001,012-013,030
TPH (C7-C8 aromatic)	T209	M105	0.100	mg/kg	N	001,012-013,030
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	N	001,012-013,030
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	M	001,012-013,030
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	M	001,012-013,030
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	M	001,012-013,030
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	M	001,012-013,030
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	N	001,012-013,030
TPH (Aromatic) total	T85	M105		mg/kg	N	001,012-013,030
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N	001,012-013,030
Benzene	T209	M105	0.010	mg/kg	M	001,012-013,030
Toluene	T209	M105	0.010	mg/kg	M	001,012-013,030
EthylBenzene	T209	M105	0.010	mg/kg	M	001,012-013,030
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	M	001,012-013,030
O Xylene	T209	M105	0.010	mg/kg	M	001,012-013,030
M/P Xylene	T209	M105	0.010	mg/kg	M	001,012-013,030
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	012-013
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	012-013
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	012-013
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	012-013
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	012-013
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	012-013
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	012-013
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	012-013
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	U	012-013
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	012-013

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	012-013
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	012-013
2-Chlorophenol	T207	M105	0.1	mg/kg	M	012-013
2-methyl phenol	T207	M105	0.1	mg/kg	M	012-013
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	012-013
2-Nitroaniline	T207	M105	0.1	mg/kg	M	012-013
2-Nitrophenol	T207	M105	0.1	mg/kg	U	012-013
3-Nitroaniline	T207	M105	0.1	mg/kg	U	012-013
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	012-013
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	012-013
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	012-013
4-Chloroaniline	T207	M105	0.1	mg/kg	U	012-013
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	012-013
4-Nitroaniline	T207	M105	0.1	mg/kg	U	012-013
4-Nitrophenol	T207	M105	0.1	mg/kg	U	012-013
Azobenzene	T207	M105	0.1	mg/kg	M	012-013
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	012-013
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	012-013
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	012-013
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	012-013
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	012-013
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	012-013
Carbazole	T207	M105	0.1	mg/kg	U	012-013
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	012-013
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	012-013
Dibenzofuran	T207	M105	0.1	mg/kg	M	012-013
Diethyl phthalate	T207	M105	0.1	mg/kg	U	012-013
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	012-013
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	012-013
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	012-013
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	012-013
Hexachloroethane	T207	M105	0.1	mg/kg	U	012-013
Isophorone	T207	M105	0.1	mg/kg	U	012-013
Nitrobenzene	T207	M105	0.1	mg/kg	M	012-013
Pentachlorophenol	T207	M105	0.1	mg/kg	U	012-013
Phenol	T207	M105	0.1	mg/kg	M	012-013
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	M	012-013
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	M	012-013
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	U	012-013
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	M	012-013
1,1-Dichloroethane	T209	M105	0.050	mg/kg	M	012-013
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	M	012-013
1,1-Dichloropropene	T209	M105	0.050	mg/kg	M	012-013
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	U	012-013
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	M	012-013
1,2-dibromoethane	T209	M105	0.050	mg/kg	M	012-013
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	M	012-013
1,2-Dichloroethane	T209	M105	0.050	mg/kg	M	012-013
1,2-Dichloropropane	T209	M105	0.050	mg/kg	M	012-013
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	M	012-013
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	M	012-013
1,3-Dichloropropane	T209	M105	0.050	mg/kg	M	012-013
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	M	012-013
2,2-Dichloropropane	T209	M105	0.050	mg/kg	U	012-013
2-Chlorotoluene	T209	M105	0.050	mg/kg	U	012-013
4-Chlorotoluene	T209	M105	0.050	mg/kg	U	012-013
Bromobenzene	T209	M105	0.050	mg/kg	M	012-013
Bromochloromethane	T209	M105	0.050	mg/kg	M	012-013
Bromodichloromethane	T209	M105	0.050	mg/kg	M	012-013
Bromoform	T209	M105	0.050	mg/kg	M	012-013
Bromomethane	T209	M105	0.050	mg/kg	U	012-013
Carbon tetrachloride	T209	M105	0.050	mg/kg	M	012-013
Chlorobenzene	T209	M105	0.050	mg/kg	M	012-013
Chlorodibromomethane	T209	M105	0.050	mg/kg	M	012-013
Chloroethane	T209	M105	0.050	mg/kg	M	012-013
Chloroform	T209	M105	0.050	mg/kg	M	012-013
Chloromethane	T209	M105	0.050	mg/kg	U	012-013
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	M	012-013
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	012-013
Dibromomethane	T209	M105	0.050	mg/kg	M	012-013

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	M	012-013
Dichloromethane	T209	M105	0.050	mg/kg	U	012-013
Isopropyl benzene	T209	M105	0.050	mg/kg	M	012-013
n-Propylbenzene	T209	M105	0.050	mg/kg	M	012-013
p-Isopropyltoluene	T209	M105	0.050	mg/kg	M	012-013
S-Butylbenzene	T209	M105	0.050	mg/kg	M	012-013
Styrene	T209	M105	0.050	mg/kg	U	012-013
T-Butylbenzene	T209	M105	0.050	mg/kg	M	012-013
Tetrachloroethene	T209	M105	0.050	mg/kg	M	012-013
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	M	012-013
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	012-013
Trichloroethene	T209	M105	0.050	mg/kg	M	012-013
Trichlorofluoromethane	T209	M105	0.050	mg/kg	M	012-013
Vinyl chloride	T209	M105	0.050	mg/kg	M	012-013

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: Supplement to 340957-2

Date of Report: 27-Aug-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 04 and 05
Date Job Received at SAL: 16-Jul-2013
Date Analysis Started: 19-Jul-2013
Date Analysis Completed: 05-Aug-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Annie Hennis
Project Manager

Issued by :
Annie Hennis
Project Manager

[redacted]

SAL Reference: 340957
Project Site: A63 Castle St - 04 and 05
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**340957 002**	**340957 005**	**340957 007**	**340957 011**	**340957 012**	**340957 018**	**340957 024**	**340957 025**
				Customer Sample Reference	**BH19A 1.05 ES001**	**BH19A 2.3 ES004**	**BH19A 4.2 ES006**	**BH19A 8.2 ES010**	**BH39 0.5 ES001**	**BH39 3 ES007**	**BH39 6.5 ES022**	**SCPT20 0.5 ES001**
				Date Sampled	**17-JUL-2013**	**17-JUL-2013**	**17-JUL-2013**	**17-JUL-2013**	**17-JUL-2013**	**17-JUL-2013**	**17-JUL-2013**	**17-JUL-2013**
				Top Depth	**1.05**	**2.3**	**4.2**	**8.2**	**0.2**	**3**	**6.5**	**0.5**
				Type	**Sandy Soil**	**Clay**	**Clay**	**Clay**	**Sandy Soil**	**Clay**	**Clay**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
Moisture @ 105 C	T162	AR	0.1	%	**26**	**29**	**29**	**31**	**4.0**	**23**	**25**	**14**
Moisture	T277	AR	0.1	%	**21**	**32**	**26**	**30**	**4.1**	**17**	**25**	**12**
Asbestos ID	T27	AR			N.D.	N.D.	-	-	N.D.	N.D.	N.D.	N.D.
pH	T7	AR			**9.9**	**7.7**	**8.0**	**8.4**	**8.7**	**8.4**	**8.9**	**8.3**
Mass Fraction of organic carbon	T286	M40			-	-	**0.012**	**0.0088**	-	-	**0.014**	-
Arsenic	T6	M40	2	mg/kg	**17**	**11**	**10**	**15**	**9**	**12**	**12**	**17**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	**1**	<1	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**21**	**29**	**22**	**19**	**8**	**23**	**24**	**30**
Chromium (trivalent)	T85	AR	2	mg/kg	**21**	**29**	**22**	**19**	**8**	**23**	**24**	**30**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**40**	**26**	**14**	**12**	**15**	**20**	**14**	**57**
Lead	T6	M40	1	mg/kg	**300**	**43**	**15**	**12**	**45**	**64**	**20**	**360**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**15**	**27**	**23**	**20**	**9**	**21**	**23**	**21**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**96**	**110**	**62**	**55**	**120**	**86**	**62**	**170**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.28**	**1.4**	**1.1**	**1.1**	**0.17**	**0.22**	**0.89**	**0.37**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	T207	M105	0.1	mg/kg	**0.1**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**1.6**
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.7**
Anthracene	T207	M105	0.1	mg/kg	**0.3**	<0.1	<0.1	<0.1	<0.1	**0.1**	<0.1	**3.9**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.5**	<0.1	<0.1	<0.1	<0.1	**0.3**	<0.1	**15**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**0.5**	<0.1	<0.1	<0.1	<0.1	**0.2**	<0.1	**11**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**0.6**	<0.1	<0.1	<0.1	<0.1	**0.2**	<0.1	**11**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**0.3**	<0.1	<0.1	<0.1	<0.1	**0.1**	<0.1	**5.9**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**0.4**	<0.1	<0.1	<0.1	<0.1	**0.3**	<0.1	**11**
Chrysene	T207	M105	0.1	mg/kg	**0.6**	<0.1	<0.1	<0.1	<0.1	**0.3**	<0.1	**14**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**2.2**
Fluoranthene	T207	M105	0.1	mg/kg	**1.4**	<0.1	<0.1	<0.1	**0.2**	**0.9**	<0.1	**30**
Fluorene	T207	M105	0.1	mg/kg	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**1.6**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**0.3**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**6.0**
Naphthalene	T207	M105	0.1	mg/kg	**0.4**	<0.1	<0.1	<0.1	<0.1	**0.1**	<0.1	**1.1**
Phenanthrene	T207	M105	0.1	mg/kg	**1.1**	<0.1	<0.1	<0.1	**0.1**	**0.6**	<0.1	**13**
Pyrene	T207	M105	0.1	mg/kg	**1.1**	<0.1	<0.1	<0.1	**0.2**	**0.7**	<0.1	**27**
PAH(total)	T207	M105	0.1	mg/kg	**7.8**	<0.1	<0.1	<0.1	**0.5**	**3.8**	<0.1	**160**
TPH (C8-C10)	T8	M105	1	mg/kg	-	-	<1	<1	<1	-	<1	-
TPH (C10-C12)	T206	M105	1	mg/kg	-	-	<1	<1	<1	-	<1	-
TPH (C12-C16)	T206	M105	1	mg/kg	-	-	<1	**2**	<1	-	<1	-
TPH (C16-C21)	T206	M105	1	mg/kg	-	-	<1	**7**	**1**	-	<1	-
TPH (C21-C35)	T206	M105	1	mg/kg	-	-	<1	**6**	**4**	-	<1	-
TPH (C35-C40)	T8	M105	1	mg/kg	-	-	<1	<1	<1	-	<1	-
TPH (C8 - C40)	T85	M105	1	mg/kg	-	-	<1	**15**	**5**	-	<1	-
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	<0.100	<0.100	-	-	-	<0.100	-	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	-	-	-	<0.10	-	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	-	-	-	**2.7**	-	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	<1	<1	-	-	-	<1	-	<1
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	<2	<2	-	-	-	<2	-	**10**
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	<1	<1	-	-	-	<1	-	**24**
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	<4	<4	-	-	-	**8**	-	**130**
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	<1	<1	-	-	-	**1**	-	**34**
TPH (Aliphatic) total	T85	M105		mg/kg	N.D.	N.D.	-	-	-	**12**	-	**200**

SAL Reference: 340957
Project Site: A63 Castle St - 04 and 05
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

	SAL Reference	340957 002	340957 005	340957 007	340957 011	340957 012	340957 018	340957 024	340957 025
	Customer Sample Reference	BH19A 1.05 ES001	BH19A 2.3 ES004	BH19A 4.2 ES006	BH19A 8.2 ES010	BH39 0.5 ES001	BH39 3 ES007	BH39 6.5 ES022	SCPT20 0.5 ES001
	Date Sampled	17-JUL-2013	17-JUL-2013	17-JUL-2013	17-JUL-2013	17-JUL-2013	17-JUL-2013	17-JUL-2013	17-JUL-2013
	Top Depth	1.05	2.3	4.2	8.2	0.2	3	6.5	0.5
	Type	Sandy Soil	Clay	Clay	Clay	Sandy Soil	Clay	Clay	Sandy Soil
Determinand	**Method** / **Test Sample** / **LOD** / **Units**								
TPH (C6-C7 aromatic)	T209 / M105 / 0.10 / mg/kg	<0.10	<0.10	-	-	-	<0.10	-	<0.10
TPH (C7-C8 aromatic)	T209 / M105 / 0.10 / mg/kg	<0.10	<0.10	-	-	-	<0.10	-	<0.10
TPH (C8-C10 aromatic)	T209 / M105 / 0.10 / mg/kg	<0.10	<0.10	-	-	-	**1.5**	-	<0.10
TPH (C10-C12 aromatic)	T206 / M105 / 1 / mg/kg	<1	<1	-	-	-	<1	-	<1
TPH (C12-C16 aromatic)	T206 / M105 / 1 / mg/kg	<1	<1	-	-	-	<1	-	**12**
TPH (C16-C21 aromatic)	T206 / M105 / 1 / mg/kg	**1**	<1	-	-	-	**2**	-	**84**
TPH (C21-C35 aromatic)	T206 / M105 / 1 / mg/kg	**4**	<1	-	-	-	**5**	-	**270**
TPH (C35-C44 aromatic)	T8 / M105 / 1 / mg/kg	<1	<1	-	-	-	**1**	-	**59**
TPH (Aromatic) total	T85 / M105 / / mg/kg	**5.0**	N.D.	-	-	-	**9.5**	-	**430**
TPH (Aliphatic+Aromatic) (sum)	T85 / M105 / / mg/kg	**5.0**	N.D.	-	-	-	**21**	-	**630**
Benzene	T209 / M105 / 0.010 / mg/kg	<0.010	<0.010	-	-	-	<0.010	-	<0.010
Toluene	T209 / M105 / 0.010 / mg/kg	<0.010	<0.010	-	-	-	<0.010	-	<0.010
EthylBenzene	T209 / M105 / 0.010 / mg/kg	<0.010	<0.010	-	-	-	<0.010	-	<0.010
Methyl tert-Butyl Ether	T209 / M105 / 0.010 / mg/kg	<0.010	<0.010	-	-	-	<0.010	-	<0.010
O Xylene	T209 / M105 / 0.010 / mg/kg	<0.010	<0.010	-	-	-	**0.029**	-	<0.010
M/P Xylene	T209 / M105 / 0.010 / mg/kg	<0.010	<0.010	-	-	-	<0.010	-	<0.010
PCB BZ#101	T1 / M105 / 0.00005 / mg/kg	<0.00005	-	-	-	-	-	-	(9) <0.00050
PCB BZ#118	T1 / M105 / 0.00005 / mg/kg	<0.00005	-	-	-	-	-	-	(9) <0.00050
PCB BZ#138	T1 / M105 / 0.00005 / mg/kg	<0.00005	-	-	-	-	-	-	(9) <0.00050
PCB BZ#153	T1 / M105 / 0.00005 / mg/kg	<0.00005	-	-	-	-	-	-	**0.00070**
PCB BZ#180	T1 / M105 / 0.00005 / mg/kg	<0.00005	-	-	-	-	-	-	**0.00080**
PCB BZ#28	T1 / M105 / 0.00005 / mg/kg	<0.00005	-	-	-	-	-	-	(9) <0.00050
PCB BZ#52	T1 / M105 / 0.00005 / mg/kg	<0.00005	-	-	-	-	-	-	(9) <0.00050

SAL Reference: 340957
Project Site: A63 Castle St - 04 and 05
Customer Reference: 112630

Soil Analysed as Soil

Volatile Organic Compounds (USEPA 624) (MCERTS)

				SAL Reference	**340957 002**	**340957 005**	**340957 025**
				Customer Sample Reference	**BH19A 1.05 ES001**	**BH19A 2.3 ES004**	**SCPT20 0.5 ES001**
				Date Sampled	**17-JUL-2013**	**17-JUL-2013**	**17-JUL-2013**
				Top Depth	**1.05**	**2.3**	**0.5**
				Type	**Sandy Soil**	**Clay**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2-dibromoethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,3-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
2,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
2-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
4-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Benzene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010
Bromobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Bromochloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Bromodichloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Bromoform	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Bromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Carbon tetrachloride	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Chlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Chlorodibromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Chloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Chloroform	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Chloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Dibromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Dichloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010
Isopropyl benzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
M/P Xylene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010
n-Propylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
O Xylene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010
p-Isopropyltoluene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
S-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Styrene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
T-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Tetrachloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Toluene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Trichloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Trichlorofluoromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Vinyl chloride	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050

SAL Reference: 340957
Project Site: A63 Castle St - 04 and 05
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

				SAL Reference	**340957 002**	**340957 005**	**340957 025**
				Customer Sample Reference	**BH19A 1.05 ES001**	**BH19A 2.3 ES004**	**SCPT20 0.5 ES001**
				Date Sampled	**17-JUL-2013**	**17-JUL-2013**	**17-JUL-2013**
				Top Depth	**1.05**	**2.3**	**0.5**
				Type	**Sandy Soil**	**Clay**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	**0.2**	<0.1	**0.4**
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	**0.1**	<0.1	**1.6**
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.7**
Anthracene	T207	M105	0.1	mg/kg	**0.3**	<0.1	**3.9**
Azobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.5**	<0.1	**15**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**0.5**	<0.1	**11**
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	**0.9**	<0.1	**21**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**0.3**	<0.1	**5.9**
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	**2.8**	<0.1	**0.7**
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Carbazole	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.7**
Chrysene	T207	M105	0.1	mg/kg	**0.6**	<0.1	**14**
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**2.2**
Dibenzofuran	T207	M105	0.1	mg/kg	**0.2**	<0.1	**1.0**
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**1.4**	<0.1	**30**
Fluorene	T207	M105	0.1	mg/kg	**0.2**	<0.1	**1.6**
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**0.3**	<0.1	**6.0**
Isophorone	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	**0.4**	<0.1	**1.1**
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**1.1**	<0.1	**13**

SAL Reference: 340957
Project Site: A63 Castle St - 04 and 05
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

				SAL Reference	**340957 002**	**340957 005**	**340957 025**
				Customer Sample Reference	**BH19A 1.05 ES001**	**BH19A 2.3 ES004**	**SCPT20 0.5 ES001**
				Date Sampled	**17-JUL-2013**	**17-JUL-2013**	**17-JUL-2013**
				Top Depth	**1.05**	**2.3**	**0.5**
				Type	**Sandy Soil**	**Clay**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	**1.1**	<0.1	**27**

SAL Reference: 340957
Project Site: A63 Castle St - 04 and 05
Customer Reference: 112630

Leachate to BS EN 12457-2 (10:1) Analysed as Water
Grontmij A63 Hull Leachate Suite

				SAL Reference	**340957 002**	**340957 012**	**340957 025**
				Customer Sample Reference	**BH19A 1.05 ES001**	**BH39 0.5 ES001**	**SCPT20 0.5 ES001**
				Date Sampled	**17-JUL-2013**	**17-JUL-2013**	**17-JUL-2013**
				Top Depth	**1.05**	**0.2**	**0.5**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
pH	T7	10:1			**9.4**	**9.1**	**8.8**
As (Dissolved)	T281	10:1	0.2	µg/l	**4.6**	**3.5**	**25**
Boron	T6	10:1	10	µg/l	**150**	**83**	**200**
Cd (Dissolved)	T281	10:1	0.02	µg/l	<0.02	<0.02	<0.02
Cr (Dissolved)	T281	10:1	1	µg/l	**2**	<1	<1
Chromium (trivalent)	T85	10:1	3	µg/l	<3	<3	<3
Chromium VI	T686	10:1	3	µg/l	<3	<3	<3
Cu (Dissolved)	T281	10:1	0.5	µg/l	**30**	**1.2**	**17**
Pb (Dissolved)	T281	10:1	0.3	µg/l	<0.3	<0.3	**7.0**
Hg (Dissolved)	T281	10:1	0.05	µg/l	<0.05	<0.05	**0.09**
Ni (Dissolved)	T281	10:1	1	µg/l	**3**	<1	**3**
Se (Dissolved)	T281	10:1	0.5	µg/l	**0.6**	<0.5	**1.0**
Zn (Dissolved)	T281	10:1	2	µg/l	<2	**4**	**5**
Sulphate	T686	10:1	0.5	mg/l	**24**	**1.2**	**69**
Sulphide	T4	10:1	0.05	mg/l	<0.05	<0.05	<0.05
Sulphur (total)	T65	10:1	0.01	mg/l	**9.4**	**0.41**	**24**
Total Phenols	T16	10:1	0.5	µg/l	(110) <5.0	(110) <5.0	(110) <5.0
Cyanide(Total)	T220	10:1	10	µg/l	<10	<10	<10
Cyanide(free)	T220	10:1	10	µg/l	<10	<10	<10
Acenaphthene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	**0.34**
Acenaphthylene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	**0.07**
Anthracene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	**0.11**
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	**0.17**
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	**0.19**
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	**0.24**
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	**0.22**
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	**1.2**
Chrysene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	**0.15**
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	**0.09**
Fluoranthene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	**0.26**
Fluorene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	**0.06**
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	**0.19**
Naphthalene	T149	10:1	0.01	µg/l	**0.38**	**0.31**	**0.31**
Phenanthrene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	**0.09**
Pyrene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	**0.22**
PAH(total)	T149	10:1	0.01	µg/l	**0.38**	**0.31**	**2.5**
PAH (sum of 4)	T85	10:1		µg/l	(100) <0.02	(100) <0.02	**0.77**
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	**1.4**
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	(100) <0.02	(100) <0.02	**0.41**
TPH (C8-C10) DW	T81	10:1	10	µg/l	<10	<10	<10
TPH (C10-C12) DW	T81	10:1	10	µg/l	<10	<10	<10
TPH (C12-C16) DW	T81	10:1	10	µg/l	<10	<10	**42**
TPH (C16-C21) DW	T81	10:1	10	µg/l	<10	<10	**170**
TPH (C21-C35) DW	T81	10:1	10	µg/l	<10	<10	**630**
TPH (C35-C40)	T81	10:1	10	µg/l	<10	<10	**160**
TPH (C8 - C40)	T85	10:1	10	µg/l	<10	<10	**1000**

Index to symbols used in Supplement to 340957-2

Value	Description
10:1	Leachate to BS EN 12457-2 (10:1)
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C

M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
AR	As Received
N.D.	Not Detected
9	LOD raised due to dilution of sample
100	LOD determined by sample aliquot used for analysis
110	LOD raised due to low internal standard recovery.
W	Analysis was performed at another SAL laboratory
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Supplemental report issued to amend the sample reference for sample 25

Method Index

Value	Description
T7	Probe
T1	GC/MS (HR)
T65	ICP/OES (Preconc.)
T81	GC/FID (LV)
T207	GC/MS(MCERTS)
T206	GC/FID (MCERTS)
T85	Calc
T8	GC/FID
T286	Calc TOC/100
T281	ICP/MS (Filtered)
T686	Discrete Analyser
T209	GC/MS(Head Space)(MCERTS)
T546	Colorimetry (CF)
T277	Grav (1 Dec) (40 C)
T6	ICP/OES
T149	GC/MS (SIR)
T162	Grav (1 Dec) (105 C)
T16	GC/MS
T220	Colorimetry (SD)
T27	PLM
T4	Colorimetry

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture @ 105 C	T162	AR	0.1	%	N	002,005,007,011-012,018,024-025
Moisture	T277	AR	0.1	%	N	002,005,007,011-012,018,024-025
Asbestos ID	T27	AR			SU	002,005,012,018,024-025
pH	T7	AR			M	002,005,007,011-012,018,024-025
Mass Fraction of organic carbon	T286	M40			N	007,011,024
Arsenic	T6	M40	2	mg/kg	M	002,005,007,011-012,018,024-025
Boron (water-soluble)	T6	AR	1	mg/kg	N	002,005,007,011-012,018,024-025
Cadmium	T6	M40	1	mg/kg	M	002,005,007,011-012,018,024-025
Chromium	T6	M40	1	mg/kg	M	002,005,007,011-012,018,024-025
Chromium (trivalent)	T85	AR	2	mg/kg	N	002,005,007,011-012,018,024-025
Chromium VI	T6	AR	1	mg/kg	N	002,005,007,011-012,018,024-025
Copper	T6	M40	1	mg/kg	M	002,005,007,011-012,018,024-025
Lead	T6	M40	1	mg/kg	M	002,005,007,011-012,018,024-025
Mercury	T6	M40	1	mg/kg	M	002,005,007,011-012,018,024-025
Nickel	T6	M40	1	mg/kg	M	002,005,007,011-012,018,024-025
Selenium	T6	M40	3	mg/kg	M	002,005,007,011-012,018,024-025
Zinc	T6	M40	1	mg/kg	M	002,005,007,011-012,018,024-025
Cyanide(Total)	T546	AR	1	mg/kg	M	002,005,007,011-012,018,024-025
Cyanide(free)	T546	AR	1	mg/kg	M	002,005,007,011-012,018,024-025
SO4(Total)	T6	M40	0.01	%	N	002,005,007,011-012,018,024-025
Total Phenols	T149	AR	0.01	mg/kg	U	002,005,007,011-012,018,024-025
Acenaphthylene	T207	M105	0.1	mg/kg	U	002,005,007,011-012,018,024-025
Anthracene	T207	M105	0.1	mg/kg	U	002,005,007,011-012,018,024-025
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	002,005,007,011-012,018,024-025

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	002,005,007,011-012,018,024-025
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	002,005,007,011-012,018,024-025
Chrysene	T207	M105	0.1	mg/kg	M	002,005,007,011-012,018,024-025
Fluoranthene	T207	M105	0.1	mg/kg	M	002,005,007,011-012,018,024-025
Fluorene	T207	M105	0.1	mg/kg	M	002,005,007,011-012,018,024-025
Naphthalene	T207	M105	0.1	mg/kg	M	002,005,007,011-012,018,024-025
PAH(total)	T207	M105	0.1	mg/kg	U	002,005,007,011-012,018,024-025
TPH (C8-C10)	T8	M105	1	mg/kg	N	007,011-012,024
TPH (C10-C12)	T206	M105	1	mg/kg	M	007,011-012,024
TPH (C12-C16)	T206	M105	1	mg/kg	M	007,011-012,024
TPH (C16-C21)	T206	M105	1	mg/kg	M	007,011-012,024
TPH (C21-C35)	T206	M105	1	mg/kg	M	007,011-012,024
TPH (C35-C40)	T8	M105	1	mg/kg	N	007,011-012,024
TPH (C8 - C40)	T85	M105	1	mg/kg	N	007,011-012,024
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	N	002,005,018,025
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	N	002,005,018,025
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	N	002,005,018,025
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	M	002,005,018,025
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	M	002,005,018,025
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	M	002,005,018,025
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	M	002,005,018,025
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	N	002,005,018,025
TPH (Aliphatic) total	T85	M105		mg/kg	N	002,005,018,025
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	N	002,005,018,025
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	N	002,005,018,025
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	N	002,005,018,025
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	M	002,005,018,025
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	M	002,005,018,025
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	M	002,005,018,025
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	M	002,005,018,025
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	N	002,005,018,025
TPH (Aromatic) total	T85	M105		mg/kg	N	002,005,018,025
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N	002,005,018,025
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	M	002,005,018,025
PCB BZ#101	T1	M105	0.00005	mg/kg	M	002,025
PCB BZ#118	T1	M105	0.00005	mg/kg	M	002,025
PCB BZ#138	T1	M105	0.00005	mg/kg	M	002,025
PCB BZ#153	T1	M105	0.00005	mg/kg	M	002,025
PCB BZ#180	T1	M105	0.00005	mg/kg	M	002,025
PCB BZ#28	T1	M105	0.00005	mg/kg	M	002,025
PCB BZ#52	T1	M105	0.00005	mg/kg	M	002,025
pH	T7	10:1			U	002,012,025
As (Dissolved)	T281	10:1	0.2	µg/l	U	002,012,025
Boron	T6	10:1	10	µg/l	N	002,012,025
Cd (Dissolved)	T281	10:1	0.02	µg/l	U	002,012,025
Cr (Dissolved)	T281	10:1	1	µg/l	U	002,012,025
Chromium (trivalent)	T85	10:1	3	µg/l	N	002,012,025
Chromium VI	T686	10:1	3	µg/l	U	002,012,025
Cu (Dissolved)	T281	10:1	0.5	µg/l	U	002,012,025
Pb (Dissolved)	T281	10:1	0.3	µg/l	U	002,012,025
Hg (Dissolved)	T281	10:1	0.05	µg/l	U	002,012,025
Ni (Dissolved)	T281	10:1	1	µg/l	U	002,012,025
Se (Dissolved)	T281	10:1	0.5	µg/l	U	002,012,025
Zn (Dissolved)	T281	10:1	2	µg/l	U	002,012,025
Sulphate	T686	10:1	0.5	mg/l	U	002,012,025
Sulphide	T4	10:1	0.05	mg/l	N	002,012,025
Sulphur (total)	T65	10:1	0.01	mg/l	N	002,012,025
Total Phenols	T16	10:1	0.5	µg/l	U	002,012,025
Cyanide(Total)	T220	10:1	10	µg/l	WU	002,012,025
Cyanide(free)	T220	10:1	10	µg/l	WN	002,012,025
Acenaphthene	T149	10:1	0.01	µg/l	U	002,012,025
Acenaphthylene	T149	10:1	0.01	µg/l	U	002,012,025
Anthracene	T149	10:1	0.01	µg/l	U	002,012,025
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	U	002,012,025
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	U	002,012,025
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	U	002,012,025
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	U	002,012,025
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	U	002,012,025
Chrysene	T149	10:1	0.01	µg/l	U	002,012,025
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	U	002,012,025

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Fluoranthene	T149	10:1	0.01	µg/l	U	002,012,025
Fluorene	T149	10:1	0.01	µg/l	U	002,012,025
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	U	002,012,025
Naphthalene	T149	10:1	0.01	µg/l	U	002,012,025
Phenanthrene	T149	10:1	0.01	µg/l	U	002,012,025
Pyrene	T149	10:1	0.01	µg/l	U	002,012,025
PAH(total)	T149	10:1	0.01	µg/l	U	002,012,025
PAH (sum of 4)	T85	10:1		µg/l	N	002,012,025
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	U	002,012,025
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	N	002,012,025
TPH (C8-C10) DW	T81	10:1	10	µg/l	U	002,012,025
TPH (C10-C12) DW	T81	10:1	10	µg/l	U	002,012,025
TPH (C12-C16) DW	T81	10:1	10	µg/l	U	002,012,025
TPH (C16-C21) DW	T81	10:1	10	µg/l	U	002,012,025
TPH (C21-C35) DW	T81	10:1	10	µg/l	U	002,012,025
TPH (C35-C40)	T81	10:1	10	µg/l	N	002,012,025
TPH (C8 - C40)	T85	10:1	10	µg/l	N	002,012,025
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	002,005,025
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	002,005,025
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	002,005,025
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	002,005,025
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	002,005,025
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	002,005,025
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	002,005,025
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	002,005,025
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	U	002,005,025
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	002,005,025
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	002,005,025
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	002,005,025
2-Chlorophenol	T207	M105	0.1	mg/kg	M	002,005,025
2-methyl phenol	T207	M105	0.1	mg/kg	M	002,005,025
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	002,005,025
2-Nitroaniline	T207	M105	0.1	mg/kg	M	002,005,025
2-Nitrophenol	T207	M105	0.1	mg/kg	U	002,005,025
3-Nitroaniline	T207	M105	0.1	mg/kg	U	002,005,025
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	002,005,025
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	002,005,025
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	002,005,025
4-Chloroaniline	T207	M105	0.1	mg/kg	U	002,005,025
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	002,005,025
4-Nitroaniline	T207	M105	0.1	mg/kg	U	002,005,025
4-Nitrophenol	T207	M105	0.1	mg/kg	U	002,005,025
Acenaphthene	T207	M105	0.1	mg/kg	M	002,005,007,011-012,018,024-025
Azobenzene	T207	M105	0.1	mg/kg	M	002,005,025
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	002,005,007,011-012,018,024-025
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	002,005,007,011-012,018,024-025
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	002,005,025
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	002,005,025
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	002,005,025
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	002,005,025
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	002,005,025
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	002,005,025
Carbazole	T207	M105	0.1	mg/kg	U	002,005,025
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	002,005,025
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	002,005,025
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	002,005,007,011-012,018,024-025
Dibenzofuran	T207	M105	0.1	mg/kg	M	002,005,025
Diethyl phthalate	T207	M105	0.1	mg/kg	U	002,005,025
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	002,005,025
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	002,005,025
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	002,005,025
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	002,005,025
Hexachloroethane	T207	M105	0.1	mg/kg	U	002,005,025
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	002,005,007,011-012,018,024-025
Isophorone	T207	M105	0.1	mg/kg	U	002,005,025
Nitrobenzene	T207	M105	0.1	mg/kg	M	002,005,025
Pentachlorophenol	T207	M105	0.1	mg/kg	U	002,005,025
Phenanthrene	T207	M105	0.1	mg/kg	M	002,005,007,011-012,018,024-025
Phenol	T207	M105	0.1	mg/kg	M	002,005,025
Pyrene	T207	M105	0.1	mg/kg	M	002,005,007,011-012,018,024-025

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	M	002,005,025
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	M	002,005,025
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	U	002,005,025
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	M	002,005,025
1,1-Dichloroethane	T209	M105	0.050	mg/kg	M	002,005,025
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	M	002,005,025
1,1-Dichloropropene	T209	M105	0.050	mg/kg	M	002,005,025
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	U	002,005,025
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	M	002,005,025
1,2-dibromoethane	T209	M105	0.050	mg/kg	M	002,005,025
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	M	002,005,025
1,2-Dichloroethane	T209	M105	0.050	mg/kg	M	002,005,025
1,2-Dichloropropane	T209	M105	0.050	mg/kg	M	002,005,025
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	M	002,005,025
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	M	002,005,025
1,3-Dichloropropane	T209	M105	0.050	mg/kg	M	002,005,025
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	M	002,005,025
2,2-Dichloropropane	T209	M105	0.050	mg/kg	U	002,005,025
2-Chlorotoluene	T209	M105	0.050	mg/kg	U	002,005,025
4-Chlorotoluene	T209	M105	0.050	mg/kg	U	002,005,025
Benzene	T209	M105	0.010	mg/kg	M	002,005,018,025
Bromobenzene	T209	M105	0.050	mg/kg	M	002,005,025
Bromochloromethane	T209	M105	0.050	mg/kg	M	002,005,025
Bromodichloromethane	T209	M105	0.050	mg/kg	M	002,005,025
Bromoform	T209	M105	0.050	mg/kg	M	002,005,025
Bromomethane	T209	M105	0.050	mg/kg	U	002,005,025
Carbon tetrachloride	T209	M105	0.050	mg/kg	M	002,005,025
Chlorobenzene	T209	M105	0.050	mg/kg	M	002,005,025
Chlorodibromomethane	T209	M105	0.050	mg/kg	M	002,005,025
Chloroethane	T209	M105	0.050	mg/kg	M	002,005,025
Chloroform	T209	M105	0.050	mg/kg	M	002,005,025
Chloromethane	T209	M105	0.050	mg/kg	U	002,005,025
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	M	002,005,025
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	002,005,025
Dibromomethane	T209	M105	0.050	mg/kg	M	002,005,025
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	M	002,005,025
Dichloromethane	T209	M105	0.050	mg/kg	U	002,005,025
EthylBenzene	T209	M105	0.010	mg/kg	M	002,005,018,025
Isopropyl benzene	T209	M105	0.050	mg/kg	M	002,005,025
M/P Xylene	T209	M105	0.010	mg/kg	M	002,005,018,025
n-Propylbenzene	T209	M105	0.050	mg/kg	M	002,005,025
O Xylene	T209	M105	0.010	mg/kg	M	002,005,018,025
p-Isopropyltoluene	T209	M105	0.050	mg/kg	M	002,005,025
S-Butylbenzene	T209	M105	0.050	mg/kg	M	002,005,025
Styrene	T209	M105	0.050	mg/kg	U	002,005,025
T-Butylbenzene	T209	M105	0.050	mg/kg	M	002,005,025
Tetrachloroethene	T209	M105	0.050	mg/kg	M	002,005,025
Toluene	T209	M105	0.010	mg/kg	M	002,005,018,025
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	M	002,005,025
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	002,005,025
Trichloroethene	T209	M105	0.050	mg/kg	M	002,005,025
Trichlorofluoromethane	T209	M105	0.050	mg/kg	M	002,005,025
Vinyl chloride	T209	M105	0.050	mg/kg	M	002,005,025

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 341304-1

Date of Report: 01-Aug-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 06 and 07
Date Job Received at SAL: 17-Jul-2013
Date Analysis Started: 23-Jul-2013
Date Analysis Completed: 01-Aug-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

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1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

[redacted]

SAL Reference: 341304
Project Site: A63 Castle St - 06 and 07
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**341304 001**	**341304 002**	**341304 004**	**341304 005**
				Customer Sample Reference	**SCPT08 ES 001 0.5**	**BH39 ES 026 7.5**	**SCPT11 ES 001 0.5**	**SCPT15 ES 001 0.5**
				Date Sampled	**16-JUL-2013**	**16-JUL-2013**	**16-JUL-2013**	**16-JUL-2013**
				Depth	**0.5**	**7.5**	**0.5**	**0.5**
				Type	**Fill**	**Clay**	**Sandy Soil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Moisture @ 105 C	T162	AR	0.1	%	**13**	**27**	**11**	**2.6**
Moisture	T277	AR	0.1	%	**16**	**23**	**12**	**4.5**
Asbestos ID	T27	AR			N.D.	N.D.	N.D.	N.D.
pH	T7	AR			**8.1**	**9.1**	**9.0**	**8.1**
Mass Fraction of organic carbon	T286	M40			-	**0.0062**	**0.012**	**0.029**
Arsenic	T6	M40	2.0	mg/kg	**22**	**11**	**15**	**25**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	**6**
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**17**	**23**	**30**	**34**
Chromium (trivalent)	T85	AR	2	mg/kg	**17**	**23**	**30**	**34**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**32**	**13**	**38**	**140**
Lead	T6	M40	1	mg/kg	**1700**	**19**	**160**	**2900**
Mercury	T6	M40	1	mg/kg	**1**	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**13**	**22**	**25**	**24**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**180**	**59**	**110**	**460**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.28**	**0.67**	**0.11**	**0.19**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	**0.1**	<0.1	**0.2**	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.6**	<0.1	**0.9**	**0.5**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**0.5**	<0.1	**0.8**	**0.5**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**0.4**	<0.1	**0.6**	**0.4**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**0.6**	<0.1	**0.4**	**0.5**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**0.3**	<0.1	**1.0**	**0.4**
Chrysene	T207	M105	0.1	mg/kg	**0.7**	<0.1	**0.9**	**0.5**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.1**	**0.1**
Fluoranthene	T207	M105	0.1	mg/kg	**1.1**	<0.1	**2.1**	**0.7**
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**0.4**	<0.1	**0.3**	**0.3**
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.1**	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**0.7**	<0.1	**0.9**	**0.4**
Pyrene	T207	M105	0.1	mg/kg	**1.0**	<0.1	**1.9**	**0.6**
PAH(total)	T207	M105	0.1	mg/kg	**6.4**	<0.1	**10**	**4.9**
TPH (C8-C10)	T8	M105	1	mg/kg	<1	<1	-	<1
TPH (C10-C12)	T206	M105	1	mg/kg	<1	<1	-	<1
TPH (C12-C16)	T206	M105	1	mg/kg	<1	<1	-	<1
TPH (C16-C21)	T206	M105	1	mg/kg	<1	<1	-	<1
TPH (C21-C35)	T206	M105	1	mg/kg	<1	<1	-	<1
TPH (C35-C40)	T8	M105	1	mg/kg	<1	<1	-	<1
TPH (C8 - C40)	T85	M105	1	mg/kg	<1	<1	-	<1
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	-	-	<0.100	-
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	-	-	<0.10	-
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	-	-	<0.10	-
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	-	-	<1	-
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	-	-	<2	-
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	-	-	<1	-
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	-	-	<4	-
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	-	-	<1	-
TPH (Aliphatic) total	T85	M105		mg/kg	-	-	**1.0**	-
TPH (C6-C7 aromatic)	T209	M105	0.100	mg/kg	-	-	<0.100	-

SAL Reference: 341304
Project Site: A63 Castle St - 06 and 07
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**341304 001**	**341304 002**	**341304 004**	**341304 005**
				Customer Sample Reference	**SCPT08 ES 001 0.5**	**BH39 ES 026 7.5**	**SCPT11 ES 001 0.5**	**SCPT15 ES 001 0.5**
				Date Sampled	**16-JUL-2013**	**16-JUL-2013**	**16-JUL-2013**	**16-JUL-2013**
				Depth	**0.5**	**7.5**	**0.5**	**0.5**
				Type	**Fill**	**Clay**	**Sandy Soil**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
TPH (C7-C8 aromatic)	T209	M105	0.100	mg/kg	-	-	<0.100	-
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	-	-	<0.10	-
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	-	-	<1	-
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	-	-	<1	-
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	-	-	**1**	-
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	-	-	**4**	-
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	-	-	**1**	-
TPH (Aromatic) total	T85	M105		mg/kg	-	-	**5.0**	-
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	-	-	**6.0**	-
Benzene	T209	M105	0.010	mg/kg	-	-	<0.010	-
Toluene	T209	M105	0.010	mg/kg	-	-	<0.010	-
EthylBenzene	T209	M105	0.010	mg/kg	-	-	<0.010	-
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	-	-	<0.010	-
O Xylene	T209	M105	0.010	mg/kg	-	-	<0.010	-
M/P Xylene	T209	M105	0.010	mg/kg	-	-	<0.010	-
PCB BZ#101	T1	M105	0.00005	mg/kg	-	-	<0.00005	-
PCB BZ#118	T1	M105	0.00005	mg/kg	-	-	<0.00005	-
PCB BZ#138	T1	M105	0.00005	mg/kg	-	-	**0.00008**	-
PCB BZ#153	T1	M105	0.00005	mg/kg	-	-	**0.00007**	-
PCB BZ#180	T1	M105	0.00005	mg/kg	-	-	**0.00011**	-
PCB BZ#28	T1	M105	0.00005	mg/kg	-	-	<0.00005	-
PCB BZ#52	T1	M105	0.00005	mg/kg	-	-	<0.00005	-

SAL Reference: 341304
Project Site: A63 Castle St - 06 and 07
Customer Reference: 112630

Soil Analysed as Soil

Volatile Organic Compounds (USEPA 624) (MCERTS)

SAL Reference	**341304 004**
Customer Sample Reference	**SCPT11 ES 001 0.5**
Date Sampled	**16-JUL-2013**
Depth	**0.5**
Type	**Sandy Soil**

Determinand	Method	Test Sample	LOD	Units	
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	<0.050
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	<0.050
1,1-Dichloroethane	T209	M105	0.050	mg/kg	<0.050
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050
1,1-Dichloropropene	T209	M105	0.050	mg/kg	<0.050
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	<0.050
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050
1,2-dibromoethane	T209	M105	0.050	mg/kg	<0.050
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050
1,2-Dichloroethane	T209	M105	0.050	mg/kg	<0.050
1,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050
1,3-Dichloropropane	T209	M105	0.050	mg/kg	<0.050
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050
2,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050
2-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050
4-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050
Benzene	T209	M105	0.010	mg/kg	<0.010
Bromobenzene	T209	M105	0.050	mg/kg	<0.050
Bromochloromethane	T209	M105	0.050	mg/kg	<0.050
Bromodichloromethane	T209	M105	0.050	mg/kg	<0.050
Bromoform	T209	M105	0.050	mg/kg	<0.050
Bromomethane	T209	M105	0.050	mg/kg	<0.050
Carbon tetrachloride	T209	M105	0.050	mg/kg	<0.050
Chlorobenzene	T209	M105	0.050	mg/kg	<0.050
Chlorodibromomethane	T209	M105	0.050	mg/kg	<0.050
Chloroethane	T209	M105	0.050	mg/kg	<0.050
Chloroform	T209	M105	0.050	mg/kg	<0.050
Chloromethane	T209	M105	0.050	mg/kg	<0.050
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050
Dibromomethane	T209	M105	0.050	mg/kg	<0.050
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	<0.050
Dichloromethane	T209	M105	0.050	mg/kg	<0.050
EthylBenzene	T209	M105	0.010	mg/kg	<0.010
Isopropyl benzene	T209	M105	0.050	mg/kg	<0.050
M/P Xylene	T209	M105	0.010	mg/kg	<0.010
n-Propylbenzene	T209	M105	0.050	mg/kg	<0.050
O Xylene	T209	M105	0.010	mg/kg	<0.010
p-Isopropyltoluene	T209	M105	0.050	mg/kg	<0.050
S-Butylbenzene	T209	M105	0.050	mg/kg	<0.050
Styrene	T209	M105	0.050	mg/kg	<0.050
T-Butylbenzene	T209	M105	0.050	mg/kg	<0.050
Tetrachloroethene	T209	M105	0.050	mg/kg	<0.050
Toluene	T209	M105	0.010	mg/kg	<0.010
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	<0.050
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050
Trichloroethene	T209	M105	0.050	mg/kg	<0.050
Trichlorofluoromethane	T209	M105	0.050	mg/kg	<0.050
Vinyl chloride	T209	M105	0.050	mg/kg	<0.050

SAL Reference: 341304
Project Site: A63 Castle St - 06 and 07
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

SAL Reference	**341304 004**
Customer Sample Reference	**SCPT11 ES 001 0.5**
Date Sampled	**16-JUL-2013**
Depth	**0.5**
Type	**Sandy Soil**

Determinand	Method	Test Sample	LOD	Units	
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	<0.1
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	<0.1
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	<0.1
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1
4-Nitrophenol	T207	M105	0.1	mg/kg	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1
Anthracene	T207	M105	0.1	mg/kg	**0.2**
Azobenzene	T207	M105	0.1	mg/kg	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.9**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**0.8**
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	**1.5**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**0.4**
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	<0.1
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1
Carbazole	T207	M105	0.1	mg/kg	<0.1
Chrysene	T207	M105	0.1	mg/kg	**0.9**
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	**0.1**
Dibenzofuran	T207	M105	0.1	mg/kg	<0.1
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**2.1**
Fluorene	T207	M105	0.1	mg/kg	<0.1
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**0.3**
Isophorone	T207	M105	0.1	mg/kg	<0.1
Naphthalene	T207	M105	0.1	mg/kg	**0.1**
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**0.9**

SAL Reference: 341304
Project Site: A63 Castle St - 06 and 07
Customer Reference: 112630

Soil Analysed as Soil
Semi-Volatile Organic Compounds (USEPA 625)

SAL Reference	**341304 004**
Customer Sample Reference	**SCPT11 ES 001 0.5**
Date Sampled	**16-JUL-2013**
Depth	**0.5**
Type	**Sandy Soil**

Determinand	Method	Test Sample	LOD	Units	
Phenol	T207	M105	0.1	mg/kg	<0.1
Pyrene	T207	M105	0.1	mg/kg	**1.9**

Index to symbols used in 341304-1

Value	Description
AR	As Received
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
N.D.	Not Detected
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

"Fill" samples are outside the scope of our MCERTS accreditation. Results are UKAS only

Method Index

Value	Description
T162	Grav (1 Dec) (105 C)
T286	Calc TOC/100
T209	GC/MS(Head Space)(MCERTS)
T207	GC/MS(MCERTS)
T277	Grav (1 Dec) (40 C)
T546	Colorimetry (CF)
T7	Probe
T206	GC/FID (MCERTS)
T8	GC/FID
T85	Calc
T6	ICP/OES
T1	GC/MS (HR)
T149	GC/MS (SIR)
T27	PLM

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture @ 105 C	T162	AR	0.1	%	N	001-002,004-005
Moisture	T277	AR	0.1	%	N	001-002,004-005
Asbestos ID	T27	AR			SU	001-002,004-005
pH	T7	AR			U	001
pH	T7	AR			M	002,004-005
Mass Fraction of organic carbon	T286	M40			N	002,004-005
Arsenic	T6	M40	2.0	mg/kg	U	001
Arsenic	T6	M40	2	mg/kg	M	002,004-005
Boron (water-soluble)	T6	AR	1	mg/kg	N	001-002,004-005

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Cadmium	T6	M40	1	mg/kg	U	001
Cadmium	T6	M40	1	mg/kg	M	002,004-005
Chromium	T6	M40	1	mg/kg	U	001
Chromium	T6	M40	1	mg/kg	M	002,004-005
Chromium (trivalent)	T85	AR	2	mg/kg	N	001-002,004-005
Chromium VI	T6	AR	1	mg/kg	N	001-002,004-005
Copper	T6	M40	1	mg/kg	U	001
Copper	T6	M40	1	mg/kg	M	002,004-005
Lead	T6	M40	1	mg/kg	U	001
Lead	T6	M40	1	mg/kg	M	002,004-005
Mercury	T6	M40	1	mg/kg	U	001
Mercury	T6	M40	1	mg/kg	M	002,004-005
Nickel	T6	M40	1	mg/kg	U	001
Nickel	T6	M40	1	mg/kg	M	002,004-005
Selenium	T6	M40	3	mg/kg	U	001
Selenium	T6	M40	3	mg/kg	M	002,004-005
Zinc	T6	M40	1	mg/kg	U	001
Zinc	T6	M40	1	mg/kg	M	002,004-005
Cyanide(Total)	T546	AR	1	mg/kg	U	001
Cyanide(Total)	T546	AR	1	mg/kg	M	002,004-005
Cyanide(free)	T546	AR	1	mg/kg	U	001
Cyanide(free)	T546	AR	1	mg/kg	M	002,004-005
SO4(Total)	T6	M40	0.01	%	N	001-002,004-005
Total Phenols	T149	AR	0.01	mg/kg	U	001-002,004-005
Acenaphthene	T207	M105	0.1	mg/kg	U	001
Acenaphthene	T207	M105	0.1	mg/kg	M	002,004-005
Acenaphthylene	T207	M105	0.1	mg/kg	U	001-002,004-005
Anthracene	T207	M105	0.1	mg/kg	U	001-002,004-005
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	U	001
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	002,004-005
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	U	001
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	002,004-005
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	U	001
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	002,004-005
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	U	001
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	002,004-005
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	U	001
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	002,004-005
Chrysene	T207	M105	0.1	mg/kg	U	001
Chrysene	T207	M105	0.1	mg/kg	M	002,004-005
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	U	001
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	002,004-005
Fluoranthene	T207	M105	0.1	mg/kg	U	001
Fluoranthene	T207	M105	0.1	mg/kg	M	002,004-005
Fluorene	T207	M105	0.1	mg/kg	U	001
Fluorene	T207	M105	0.1	mg/kg	M	002,004-005
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	U	001
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	002,004-005
Naphthalene	T207	M105	0.1	mg/kg	U	001
Naphthalene	T207	M105	0.1	mg/kg	M	002,004-005
Phenanthrene	T207	M105	0.1	mg/kg	U	001
Phenanthrene	T207	M105	0.1	mg/kg	M	002,004-005
Pyrene	T207	M105	0.1	mg/kg	U	001
Pyrene	T207	M105	0.1	mg/kg	M	002,004-005
PAH(total)	T207	M105	0.1	mg/kg	U	001-002,004-005
TPH (C8-C10)	T8	M105	1	mg/kg	N	001-002,005
TPH (C10-C12)	T206	M105	1	mg/kg	U	001
TPH (C10-C12)	T206	M105	1	mg/kg	M	002,005
TPH (C12-C16)	T206	M105	1	mg/kg	U	001
TPH (C12-C16)	T206	M105	1	mg/kg	M	002,005
TPH (C16-C21)	T206	M105	1	mg/kg	U	001
TPH (C16-C21)	T206	M105	1	mg/kg	M	002,005
TPH (C21-C35)	T206	M105	1	mg/kg	U	001
TPH (C21-C35)	T206	M105	1	mg/kg	M	002,005
TPH (C35-C40)	T8	M105	1	mg/kg	N	001-002,005
TPH (C8 - C40)	T85	M105	1	mg/kg	N	001-002,005
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	N	004
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	N	004
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	N	004
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	M	004

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	M	004
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	M	004
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	M	004
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	N	004
TPH (Aliphatic) total	T85	M105		mg/kg	N	004
TPH (C6-C7 aromatic)	T209	M105	0.100	mg/kg	N	004
TPH (C7-C8 aromatic)	T209	M105	0.100	mg/kg	N	004
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	N	004
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	M	004
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	M	004
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	M	004
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	M	004
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	N	004
TPH (Aromatic) total	T85	M105		mg/kg	N	004
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N	004
Benzene	T209	M105	0.010	mg/kg	M	004
Toluene	T209	M105	0.010	mg/kg	M	004
EthylBenzene	T209	M105	0.010	mg/kg	M	004
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	M	004
O Xylene	T209	M105	0.010	mg/kg	M	004
PCB BZ#101	T1	M105	0.00005	mg/kg	M	004
PCB BZ#118	T1	M105	0.00005	mg/kg	M	004
PCB BZ#138	T1	M105	0.00005	mg/kg	M	004
PCB BZ#153	T1	M105	0.00005	mg/kg	M	004
PCB BZ#180	T1	M105	0.00005	mg/kg	M	004
PCB BZ#28	T1	M105	0.00005	mg/kg	M	004
PCB BZ#52	T1	M105	0.00005	mg/kg	M	004
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	004
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	004
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	004
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	004
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	004
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	004
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	004
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	004
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	U	004
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	004
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	004
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	004
2-Chlorophenol	T207	M105	0.1	mg/kg	M	004
2-methyl phenol	T207	M105	0.1	mg/kg	M	004
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	004
2-Nitroaniline	T207	M105	0.1	mg/kg	M	004
2-Nitrophenol	T207	M105	0.1	mg/kg	U	004
3-Nitroaniline	T207	M105	0.1	mg/kg	U	004
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	004
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	004
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	004
4-Chloroaniline	T207	M105	0.1	mg/kg	U	004
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	004
4-Nitroaniline	T207	M105	0.1	mg/kg	U	004
4-Nitrophenol	T207	M105	0.1	mg/kg	U	004
Azobenzene	T207	M105	0.1	mg/kg	M	004
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	004
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	004
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	004
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	004
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	004
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	004
Carbazole	T207	M105	0.1	mg/kg	U	004
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	004
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	004
Dibenzofuran	T207	M105	0.1	mg/kg	M	004
Diethyl phthalate	T207	M105	0.1	mg/kg	U	004
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	004
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	004
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	004
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	004
Hexachloroethane	T207	M105	0.1	mg/kg	U	004
Isophorone	T207	M105	0.1	mg/kg	U	004

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Nitrobenzene	T207	M105	0.1	mg/kg	M	004
Pentachlorophenol	T207	M105	0.1	mg/kg	U	004
Phenol	T207	M105	0.1	mg/kg	M	004
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	M	004
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	M	004
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	U	004
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	M	004
1,1-Dichloroethane	T209	M105	0.050	mg/kg	M	004
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	M	004
1,1-Dichloropropene	T209	M105	0.050	mg/kg	M	004
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	U	004
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	M	004
1,2-dibromoethane	T209	M105	0.050	mg/kg	M	004
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	M	004
1,2-Dichloroethane	T209	M105	0.050	mg/kg	M	004
1,2-Dichloropropane	T209	M105	0.050	mg/kg	M	004
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	M	004
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	M	004
1,3-Dichloropropane	T209	M105	0.050	mg/kg	M	004
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	M	004
2,2-Dichloropropane	T209	M105	0.050	mg/kg	U	004
2-Chlorotoluene	T209	M105	0.050	mg/kg	U	004
4-Chlorotoluene	T209	M105	0.050	mg/kg	U	004
Bromobenzene	T209	M105	0.050	mg/kg	M	004
Bromochloromethane	T209	M105	0.050	mg/kg	M	004
Bromodichloromethane	T209	M105	0.050	mg/kg	M	004
Bromoform	T209	M105	0.050	mg/kg	M	004
Bromomethane	T209	M105	0.050	mg/kg	U	004
Carbon tetrachloride	T209	M105	0.050	mg/kg	M	004
Chlorobenzene	T209	M105	0.050	mg/kg	M	004
Chlorodibromomethane	T209	M105	0.050	mg/kg	M	004
Chloroethane	T209	M105	0.050	mg/kg	M	004
Chloroform	T209	M105	0.050	mg/kg	M	004
Chloromethane	T209	M105	0.050	mg/kg	U	004
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	M	004
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	004
Dibromomethane	T209	M105	0.050	mg/kg	M	004
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	M	004
Dichloromethane	T209	M105	0.050	mg/kg	U	004
Isopropyl benzene	T209	M105	0.050	mg/kg	M	004
M/P Xylene	T209	M105	0.010	mg/kg	M	004
n-Propylbenzene	T209	M105	0.050	mg/kg	M	004
p-Isopropyltoluene	T209	M105	0.050	mg/kg	M	004
S-Butylbenzene	T209	M105	0.050	mg/kg	M	004
Styrene	T209	M105	0.050	mg/kg	U	004
T-Butylbenzene	T209	M105	0.050	mg/kg	M	004
Tetrachloroethene	T209	M105	0.050	mg/kg	M	004
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	M	004
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	004
Trichloroethene	T209	M105	0.050	mg/kg	M	004
Trichlorofluoromethane	T209	M105	0.050	mg/kg	M	004
Vinyl chloride	T209	M105	0.050	mg/kg	M	004

Scientific Analysis Laboratories is a limited company registered in England and Wales (No 2514788) whose address is at Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 342275-2

Date of Report: 07-Aug-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 08 and 09
Date Job Received at SAL: 23-Jul-2013
Date Analysis Started: 30-Jul-2013
Date Analysis Completed: 07-Aug-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked and authorised by :
Mr Ross Walker
Customer Services Manager (Land)

Issued by :
Mr Ross Walker
Customer Services Manager (Land)

[redacted]

SAL Reference: 342275
Project Site: A63 Castle St - 08 and 09
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**342275 001**	**342275 004**	**342275 005**	**342275 006**	**342275 008**	**342275 012**	**342275 013**
				Customer Sample Reference	**BH33 ES 007 2.0**	**BH33 ES 002 0.5**	**SCPT09 ES 001 0.5**	**BH33 ES 019 5.0**	**BH33 ES 026 7.0**	**SCPT4 ES 1 0.5**	**SCPT6 ES 1 0.5**
				Date Sampled	**18-JUL-2013**	**18-JUL-2013**	**19-JUL-2013**	**19-JUL-2013**	**19-JUL-2013**	**19-JUL-2013**	**22-JUL-2013**
				Top Depth	**2.0**	**0.5**	**0.5**	**5.0**	**7.0**	**0.5**	**0.5**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Moisture @ 105 C	T162	AR	0.1	%	**25**	**8.3**	**19**	**25**	**28**	**12**	**12**
Moisture	T277	AR	0.1	%	**16**	**12**	**14**	**24**	**30**	**13**	**10**
Asbestos ID	T27	AR			N.D.	N.D.	N.D.	-	-	Chrysotile Detected -	N.D.
pH	T7	AR			**7.7**	**9.5**	**8.2**	**8.3**	**7.7**	**8.8**	**8.3**
Mass Fraction of organic carbon	T286	M40			-	-	**0.013**	-	-	**0.023**	-
Arsenic	T6	M40	2	mg/kg	**13**	**18**	**10**	**8**	**8**	**22**	**23**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**31**	**32**	**27**	**17**	**17**	**19**	**18**
Chromium (trivalent)	T85	AR	2	mg/kg	**31**	**32**	**27**	**17**	**17**	**19**	**19**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**37**	**270**	**26**	**12**	**10**	**53**	**55**
Lead	T6	M40	1	mg/kg	**81**	**620**	**39**	**12**	**10**	**1700**	**1000**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	**2**	<1
Nickel	T6	M40	1	mg/kg	**30**	**25**	**26**	**19**	**16**	**16**	**14**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**110**	**310**	**100**	**51**	**45**	**260**	**230**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.25**	**0.33**	**0.06**	**0.62**	**0.65**	**0.25**	**0.28**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	**0.13**	<0.01	<0.01	<0.01	<0.01	**0.04**
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	**7.1**	<0.1	<0.1	<0.1	**0.6**	**0.9**
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	**0.1**	<0.1	<0.1	<0.1	<0.1	**0.7**
Anthracene	T207	M105	0.1	mg/kg	**0.2**	**17**	<0.1	<0.1	<0.1	**0.6**	**3.7**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.5**	**30**	<0.1	<0.1	<0.1	**2.3**	**7.3**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**0.3**	**24**	<0.1	<0.1	<0.1	**2.1**	**4.9**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**0.4**	**25**	<0.1	<0.1	<0.1	**1.7**	**4.6**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**0.2**	**11**	<0.1	<0.1	<0.1	**1.2**	**2.6**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**0.3**	**20**	<0.1	<0.1	<0.1	**1.9**	**4.5**
Chrysene	T207	M105	0.1	mg/kg	**0.4**	**29**	<0.1	<0.1	<0.1	**2.7**	**6.8**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	**3.3**	<0.1	<0.1	<0.1	**0.4**	**1.0**
Fluoranthene	T207	M105	0.1	mg/kg	**1.1**	**110**	<0.1	<0.1	<0.1	**4.9**	**17**
Fluorene	T207	M105	0.1	mg/kg	<0.1	**7.0**	<0.1	<0.1	<0.1	**0.4**	**1.5**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**0.2**	**9.5**	<0.1	<0.1	<0.1	**1.0**	**2.2**
Naphthalene	T207	M105	0.1	mg/kg	<0.1	**3.2**	<0.1	<0.1	<0.1	**1.2**	**1.5**
Phenanthrene	T207	M105	0.1	mg/kg	**0.6**	**74**	<0.1	<0.1	<0.1	**3.5**	**16**
Pyrene	T207	M105	0.1	mg/kg	**0.9**	**88**	<0.1	<0.1	<0.1	**4.3**	**13**
PAH(total)	T207	M105	0.1	mg/kg	**5.1**	**460**	<0.1	<0.1	<0.1	**30**	**88**
TPH (C8-C10)	T8	M105	1	mg/kg	-	(9) <10	-	<1	<1	-	<1
TPH (C10-C12)	T206	M105	1	mg/kg	-	(9) <10	-	<1	<1	-	<1
TPH (C12-C16)	T206	M105	1	mg/kg	-	**61**	-	<1	<1	-	**3**
TPH (C16-C21)	T206	M105	1	mg/kg	-	**300**	-	<1	<1	-	**10**
TPH (C21-C35)	T206	M105	1	mg/kg	-	**890**	-	<1	<1	-	**20**
TPH (C35-C40)	T8	M105	1	mg/kg	-	**170**	-	<1	**3**	-	**3**
TPH (C8 - C40)	T85	M105	1	mg/kg	-	**1421**	-	<1	**3**	-	**36**
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	<0.100	-	<0.100	-	-	(110) <0.300	-
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	<0.10	-	<0.10	-	-	(110) <0.30	-
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	<0.10	-	<0.10	-	-	(110) <0.30	-
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	<1	-	<1	-	-	(9) <10	-
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	<2	-	<2	-	-	(9) <10	-
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	<1	-	<1	-	-	(9) <10	-
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	<4	-	<4	-	-	(9) <10	-
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	<1	-	<1	-	-	(9) <10	-
TPH (Aliphatic) total	T85	M105		mg/kg	N.D.	-	N.D.	-	-	N.D.	-

SAL Reference: 342275
Project Site: A63 Castle St - 08 and 09
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

	SAL Reference	342275 001	342275 004	342275 005	342275 006	342275 008	342275 012	342275 013
	Customer Sample Reference	BH33 ES 007 2.0	BH33 ES 002 0.5	SCPT09 ES 001 0.5	BH33 ES 019 5.0	BH33 ES 026 7.0	SCPT4 ES 1 0.5	SCPT6 ES 1 0.5
	Date Sampled	18-JUL-2013	18-JUL-2013	19-JUL-2013	19-JUL-2013	19-JUL-2013	19-JUL-2013	22-JUL-2013
	Top Depth	2.0	0.5	0.5	5.0	7.0	0.5	0.5
Determinand	**Method** / **Test Sample** / **LOD** / **Units**							
TPH (C6-C7 aromatic)	T209 / M105 / 0.10 / mg/kg	<0.10	-	<0.10	-	-	(110) <0.30	-
TPH (C7-C8 aromatic)	T209 / M105 / 0.10 / mg/kg	<0.10	-	<0.10	-	-	(110) <0.30	-
TPH (C8-C10 aromatic)	T209 / M105 / 0.10 / mg/kg	<0.10	-	<0.10	-	-	(110) <0.30	-
TPH (C10-C12 aromatic)	T206 / M105 / 1 / mg/kg	<1	-	<1	-	-	(9) <10	-
TPH (C12-C16 aromatic)	T206 / M105 / 1 / mg/kg	<1	-	<1	-	-	(9) <10	-
TPH (C16-C21 aromatic)	T206 / M105 / 1 / mg/kg	<1	-	<1	-	-	**44**	-
TPH (C21-C35 aromatic)	T206 / M105 / 1 / mg/kg	**1**	-	<1	-	-	**170**	-
TPH (C35-C44 aromatic)	T8 / M105 / 1 / mg/kg	<1	-	<1	-	-	(9) <10	-
TPH (Aromatic) total	T85 / M105 / / mg/kg	**1.0**	-	N.D.	-	-	**210**	-
TPH (Aliphatic+Aromatic) (sum)	T85 / M105 / / mg/kg	**1.0**	-	N.D.	-	-	**210**	-
Benzene	T209 / M105 / 0.010 / mg/kg	<0.010	-	<0.010	-	-	(110) <0.030	-
Toluene	T209 / M105 / 0.010 / mg/kg	<0.010	-	<0.010	-	-	(110) <0.030	-
EthylBenzene	T209 / M105 / 0.010 / mg/kg	<0.010	-	<0.010	-	-	(110) <0.030	-
Methyl tert-Butyl Ether	T209 / M105 / 0.010 / mg/kg	<0.010	-	<0.010	-	-	(110) <0.030	-
O Xylene	T209 / M105 / 0.010 / mg/kg	<0.010	-	<0.010	-	-	(110) <0.030	-
M/P Xylene	T209 / M105 / 0.010 / mg/kg	<0.010	-	<0.010	-	-	(110) <0.030	-

SAL Reference: 342275
Project Site: A63 Castle St - 08 and 09
Customer Reference: 112630

Leachate to BS EN 12457-2 (10:1) Analysed as Water
Grontmij A63 Hull Leachate Suite

SAL Reference	**342275 001**
Customer Sample Reference	**BH33 ES 007 2.0**
Date Sampled	**18-JUL-2013**
Top Depth	**2.0**

Determinand	Method	Test Sample	LOD	Units	
pH	T7	10:1			**8.3**
As (Dissolved)	T281	10:1	0.2	µg/l	**2.9**
Boron	T6	10:1	10	µg/l	**260**
Cd (Dissolved)	T281	10:1	0.02	µg/l	**0.02**
Cr (Dissolved)	T281	10:1	1	µg/l	<1
Chromium (trivalent)	T85	10:1	3	µg/l	<3
Chromium VI	T686	10:1	3	µg/l	<3
Cu (Dissolved)	T281	10:1	0.5	µg/l	**1.4**
Pb (Dissolved)	T281	10:1	0.3	µg/l	<0.3
Hg (Dissolved)	T281	10:1	0.05	µg/l	<0.05
Ni (Dissolved)	T281	10:1	1	µg/l	**2**
Se (Dissolved)	T281	10:1	0.5	µg/l	<0.5
Zn (Dissolved)	T281	10:1	2	µg/l	<2
Sulphate	T686	10:1	0.5	mg/l	**59**
Sulphide	T4	10:1	0.05	mg/l	<0.05
Sulphur (total)	T65	10:1	0.01	mg/l	**21**
Total Phenols	T16	10:1	0.5	µg/l	(100) <0.8
Cyanide(Total)	T220	10:1	10	µg/l	<10
Cyanide(free)	T220	10:1	10	µg/l	<10
Acenaphthene	T149	10:1	0.01	µg/l	(100) <0.02
Acenaphthylene	T149	10:1	0.01	µg/l	(100) <0.02
Anthracene	T149	10:1	0.01	µg/l	(100) <0.02
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	(100) <0.02
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	(100) <0.02
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	(100) <0.02
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	(100) <0.02
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	(100) <0.02
Chrysene	T149	10:1	0.01	µg/l	(100) <0.02
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	(100) <0.02
Fluoranthene	T149	10:1	0.01	µg/l	(100) <0.02
Fluorene	T149	10:1	0.01	µg/l	(100) <0.02
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	(100) <0.02
Naphthalene	T149	10:1	0.01	µg/l	(100) <0.02
Phenanthrene	T149	10:1	0.01	µg/l	(100) <0.02
Pyrene	T149	10:1	0.01	µg/l	(100) <0.02
PAH(total)	T149	10:1	0.01	µg/l	(100) <0.02
PAH (sum of 4)	T85	10:1		µg/l	N.D.
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	(100) <0.02
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	N.D.
TPH (C8-C10) DW	T81	10:1	10	µg/l	(100) <20
TPH (C10-C12) DW	T81	10:1	10	µg/l	(100) <20
TPH (C12-C16) DW	T81	10:1	10	µg/l	(100) <20
TPH (C16-C21) DW	T81	10:1	10	µg/l	(100) <20
TPH (C21-C35) DW	T81	10:1	10	µg/l	(100) <20
TPH (C35-C40)	T81	10:1	10	µg/l	(100) <20
TPH (C8 - C40)	T85	10:1	10	µg/l	(100) <20

Index to symbols used in 342275-2

Value	Description
AR	As Received
10:1	Leachate to BS EN 12457-2 (10:1)
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C

N.D.	Not Detected
9	LOD raised due to dilution of sample
100	LOD determined by sample aliquot used for analysis
110	LOD raised due to low internal standard recovery.
W	Analysis was performed at another SAL laboratory
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T81	GC/FID (LV)
T277	Grav (1 Dec) (40 C)
T207	GC/MS(MCERTS)
T4	Colorimetry
T149	GC/MS (SIR)
T85	Calc
T162	Grav (1 Dec) (105 C)
T209	GC/MS(Head Space)(MCERTS)
T16	GC/MS
T220	Colorimetry (SD)
T286	Calc TOC/100
T281	ICP/MS (Filtered)
T546	Colorimetry (CF)
T686	Discrete Analyser
T6	ICP/OES
T8	GC/FID
T7	Probe
T206	GC/FID (MCERTS)
T27	PLM
T65	ICP/OES (Preconc.)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture @ 105 C	T162	AR	0.1	%	N	001,004-006,008,012-013
Moisture	T277	AR	0.1	%	N	001,004-006,008,012-013
Asbestos ID	T27	AR			SU	001,004-005,012-013
pH	T7	AR			M	001,004-006,008,012-013
Mass Fraction of organic carbon	T286	M40			N	005,012
Arsenic	T6	M40	2	mg/kg	M	001,004-006,008,012-013
Boron (water-soluble)	T6	AR	1	mg/kg	N	001,004-006,008,012-013
Cadmium	T6	M40	1	mg/kg	M	001,004-006,008,012-013
Chromium	T6	M40	1	mg/kg	M	001,004-006,008,012-013
Chromium (trivalent)	T85	AR	2	mg/kg	N	001,004-006,008,012-013
Chromium VI	T6	AR	1	mg/kg	N	001,004-006,008,012-013
Copper	T6	M40	1	mg/kg	M	001,004-006,008,012-013
Lead	T6	M40	1	mg/kg	M	001,004-006,008,012-013
Mercury	T6	M40	1	mg/kg	M	001,004-006,008,012-013
Nickel	T6	M40	1	mg/kg	M	001,004-006,008,012-013
Selenium	T6	M40	3	mg/kg	M	001,004-006,008,012-013
Zinc	T6	M40	1	mg/kg	M	001,004-006,008,012-013
Cyanide(Total)	T546	AR	1	mg/kg	M	001,004-006,008,012-013
Cyanide(free)	T546	AR	1	mg/kg	M	001,004-006,008,012-013
SO4(Total)	T6	M40	0.01	%	N	001,004-006,008,012-013
Total Phenols	T149	AR	0.01	mg/kg	U	001,004-006,008,012-013
Acenaphthene	T207	M105	0.1	mg/kg	M	001,004-006,008,012-013
Acenaphthylene	T207	M105	0.1	mg/kg	U	001,004-006,008,012-013
Anthracene	T207	M105	0.1	mg/kg	U	001,004-006,008,012-013
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	001,004-006,008,012-013
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	001,004-006,008,012-013
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	001,004-006,008,012-013
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	001,004-006,008,012-013
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	001,004-006,008,012-013
Chrysene	T207	M105	0.1	mg/kg	M	001,004-006,008,012-013
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	001,004-006,008,012-013
Fluoranthene	T207	M105	0.1	mg/kg	M	001,004-006,008,012-013

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Fluorene	T207	M105	0.1	mg/kg	M	001,004-006,008,012-013
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	001,004-006,008,012-013
Naphthalene	T207	M105	0.1	mg/kg	M	001,004-006,008,012-013
Phenanthrene	T207	M105	0.1	mg/kg	M	001,004-006,008,012-013
Pyrene	T207	M105	0.1	mg/kg	M	001,004-006,008,012-013
PAH(total)	T207	M105	0.1	mg/kg	U	001,004-006,008,012-013
TPH (C8-C10)	T8	M105	1	mg/kg	N	004,006,008,013
TPH (C10-C12)	T206	M105	1	mg/kg	M	004,006,008,013
TPH (C12-C16)	T206	M105	1	mg/kg	M	004,006,008,013
TPH (C16-C21)	T206	M105	1	mg/kg	M	004,006,008,013
TPH (C21-C35)	T206	M105	1	mg/kg	M	004,006,008,013
TPH (C35-C40)	T8	M105	1	mg/kg	N	004,006,008,013
TPH (C8 - C40)	T85	M105	1	mg/kg	N	004,006,008,013
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	N	001,005,012
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	N	001,005,012
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	N	001,005,012
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	M	001,005,012
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	M	001,005,012
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	M	001,005,012
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	M	001,005,012
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	N	001,005,012
TPH (Aliphatic) total	T85	M105		mg/kg	N	001,005,012
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	N	001,005,012
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	N	001,005,012
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	N	001,005,012
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	M	001,005,012
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	M	001,005,012
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	M	001,005,012
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	M	001,005,012
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	N	001,005,012
TPH (Aromatic) total	T85	M105		mg/kg	N	001,005,012
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N	001,005,012
Benzene	T209	M105	0.010	mg/kg	M	001,005,012
Toluene	T209	M105	0.010	mg/kg	M	001,005,012
EthylBenzene	T209	M105	0.010	mg/kg	M	001,005,012
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	M	001,005,012
O Xylene	T209	M105	0.010	mg/kg	M	001,005,012
M/P Xylene	T209	M105	0.010	mg/kg	M	001,005,012
pH	T7	10:1			U	001
As (Dissolved)	T281	10:1	0.2	µg/l	U	001
Boron	T6	10:1	10	µg/l	N	001
Cd (Dissolved)	T281	10:1	0.02	µg/l	U	001
Cr (Dissolved)	T281	10:1	1	µg/l	U	001
Chromium (trivalent)	T85	10:1	3	µg/l	N	001
Chromium VI	T686	10:1	3	µg/l	U	001
Cu (Dissolved)	T281	10:1	0.5	µg/l	U	001
Pb (Dissolved)	T281	10:1	0.3	µg/l	U	001
Hg (Dissolved)	T281	10:1	0.05	µg/l	U	001
Ni (Dissolved)	T281	10:1	1	µg/l	U	001
Se (Dissolved)	T281	10:1	0.5	µg/l	U	001
Zn (Dissolved)	T281	10:1	2	µg/l	U	001
Sulphate	T686	10:1	0.5	mg/l	U	001
Sulphide	T4	10:1	0.05	mg/l	N	001
Sulphur (total)	T65	10:1	0.01	mg/l	N	001
Total Phenols	T16	10:1	0.5	µg/l	U	001
Cyanide(Total)	T220	10:1	10	µg/l	WU	001
Cyanide(free)	T220	10:1	10	µg/l	WN	001
Acenaphthene	T149	10:1	0.01	µg/l	U	001
Acenaphthylene	T149	10:1	0.01	µg/l	U	001
Anthracene	T149	10:1	0.01	µg/l	U	001
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	U	001
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	U	001
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	U	001
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	U	001
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	U	001
Chrysene	T149	10:1	0.01	µg/l	U	001
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	U	001
Fluoranthene	T149	10:1	0.01	µg/l	U	001
Fluorene	T149	10:1	0.01	µg/l	U	001
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	U	001

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Naphthalene	T149	10:1	0.01	µg/l	U	001
Phenanthrene	T149	10:1	0.01	µg/l	U	001
Pyrene	T149	10:1	0.01	µg/l	U	001
PAH(total)	T149	10:1	0.01	µg/l	U	001
PAH (sum of 4)	T85	10:1		µg/l	N	001
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	U	001
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	N	001
TPH (C8-C10) DW	T81	10:1	10	µg/l	U	001
TPH (C10-C12) DW	T81	10:1	10	µg/l	U	001
TPH (C12-C16) DW	T81	10:1	10	µg/l	U	001
TPH (C16-C21) DW	T81	10:1	10	µg/l	U	001
TPH (C21-C35) DW	T81	10:1	10	µg/l	U	001
TPH (C35-C40)	T81	10:1	10	µg/l	N	001
TPH (C8 - C40)	T85	10:1	10	µg/l	N	001

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 342322-3

Date of Report: 07-Aug-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 10
Date Job Received at SAL: 17-Jul-2013
Date Analysis Started: 30-Jul-2013
Date Analysis Completed: 07-Aug-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

[redacted]

SAL Reference: 342322
Project Site: A63 Castle St - 10
Customer Reference: 112630

Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**342322 001**	**342322 006**	**342322 013**	**342322 016**	**342322 023**	**342322 026**	**342322 027**	**342322 028**
				Customer Sample Reference	**BH11 0.9 ES 002**	**BH37 6.5 ES 025**	**BH37 0.1 ES 002**	**BH37 2.5 ES 009**	**BH37 4 ES 015**	**BH22 0.5 ES 003**	**BH22 2.9 ES 011**	**BH22 1 ES 005**
				Date Sampled	**24-JUL-2013**	**24-JUL-2013**	**24-JUL-2013**	**24-JUL-2013**	**24-JUL-2013**	**24-JUL-2013**	**24-JUL-2013**	**24-JUL-2013**
				Top Depth	**0.9**	**6.5**	**0.1**	**2.5**	**4**	**0.5**	**2.9**	**1**
				Type	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
Moisture @ 105 C	T162	AR	0.1	%	**22**	**30**	**9.9**	**29**	**29**	**11**	**28**	**22**
Moisture	T277	AR	0.1	%	**21**	**28**	**9.6**	**27**	**25**	**12**	**29**	**22**
Asbestos ID	T27	AR			N.D.	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
pH	T7	AR			**8.2**	**7.8**	**7.2**	**8.9**	**8.3**	**7.7**	**8.3**	**8.4**
Mass Fraction of organic carbon	T286	M40			**0.0075**	-	-	**0.015**	**0.099**	**0.12**	-	-
Arsenic	T6	M40	2	mg/kg	**9**	**12**	**16**	**11**	**11**	**35**	**10**	**27**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**24**	**20**	**23**	**25**	**17**	**23**	**19**	**16**
Chromium (trivalent)	T85	AR	2	mg/kg	**24**	**20**	**23**	**25**	**27**	**23**	**19**	**16**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**14**	**14**	**56**	**18**	**35**	**1100**	**27**	**210**
Lead	T6	M40	1	mg/kg	**16**	**25**	**160**	**56**	**84**	**670**	**24**	**300**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**23**	**22**	**20**	**24**	**18**	**35**	**19**	**20**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**63**	**62**	**180**	**65**	**55**	**540**	**58**	**160**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.05**	**0.84**	**0.15**	**0.57**	**1.4**	**0.40**	**0.68**	**0.28**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**0.1**	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.1**	<0.1	<0.1	**0.3**	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.7**	<0.1	<0.1	**0.9**	<0.1	**0.2**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.7**	<0.1	<0.1	**0.7**	<0.1	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.6**	<0.1	<0.1	**0.8**	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.4**	<0.1	<0.1	**0.4**	<0.1	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.5**	<0.1	<0.1	**0.8**	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.8**	<0.1	<0.1	**1.0**	<0.1	**0.2**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.1**	<0.1	<0.1	**0.1**	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	**1.2**	<0.1	<0.1	**2.5**	<0.1	**0.3**
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.3**	<0.1	<0.1	**0.4**	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.2**	<0.1	<0.1	**0.7**	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.6**	<0.1	<0.1	**1.8**	<0.1	**0.2**
Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**1.1**	<0.1	<0.1	**2.2**	<0.1	**0.3**
PAH(total)	T207	M105	0.1	mg/kg	<0.1	<0.1	**7.3**	<0.1	<0.1	**13**	<0.1	**1.2**
TPH (C8-C10)	T8	M105	1	mg/kg	-	<1	<1	-	-	-	<1	<1
TPH (C10-C12)	T206	M105	1	mg/kg	-	<1	<1	-	-	-	<1	<1
TPH (C12-C16)	T206	M105	1	mg/kg	-	<1	**2**	-	-	-	<1	**2**
TPH (C16-C21)	T206	M105	1	mg/kg	-	<1	**7**	-	-	-	<1	**2**
TPH (C21-C35)	T206	M105	1	mg/kg	-	<1	**55**	-	-	-	<1	**3**
TPH (C35-C40)	T8	M105	1	mg/kg	-	<1	**6**	-	-	-	<1	<1
TPH (C8 - C40)	T85	M105	1	mg/kg	-	<1	**64**	-	-	-	<1	**7**
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	<0.100	-	-	(110) <0.200	(110) <0.300	(110) <0.300	-	-
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	<0.10	-	-	(110) <0.20	(110) <0.30	(110) <0.30	-	-
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	<0.10	-	-	(110) <0.20	(110) <0.30	(110) <0.30	-	-
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	<1	-	-	<1	<1	<1	-	-
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	<2	-	-	<2	<2	<2	-	-
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	<1	-	-	<1	<1	**2**	-	-
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	<4	-	-	<4	<4	<4	-	-
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	<1	-	-	<1	<1	<1	-	-
TPH (Aliphatic) total	T85	M105		mg/kg	N.D.	-	-	N.D.	N.D.	**2.0**	-	-

SAL Reference: 342322
Project Site: A63 Castle St - 10
Customer Reference: 112630

Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**342322 001**	**342322 006**	**342322 013**	**342322 016**	**342322 023**	**342322 026**	**342322 027**	**342322 028**
				Customer Sample Reference	**BH11 0.9 ES 002**	**BH37 6.5 ES 025**	**BH37 0.1 ES 002**	**BH37 2.5 ES 009**	**BH37 4 ES 015**	**BH22 0.5 ES 003**	**BH22 2.9 ES 011**	**BH22 1 ES 005**
				Date Sampled	**24-JUL-2013**	**24-JUL-2013**	**24-JUL-2013**	**24-JUL-2013**	**24-JUL-2013**	**24-JUL-2013**	**24-JUL-2013**	**24-JUL-2013**
				Top Depth	**0.9**	**6.5**	**0.1**	**2.5**	**4**	**0.5**	**2.9**	**1**
				Type	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	<0.10	-	-	(110) <0.20	(110) <0.30	(110) <0.30	-	-
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	<0.10	-	-	(110) <0.20	(110) <0.30	(110) <0.30	-	-
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	<0.10	-	-	(110) <0.20	(110) <0.30	(110) <0.30	-	-
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	<1	-	-	<1	<1	<1	-	-
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	<1	-	-	<1	<1	**2**	-	-
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	<1	-	-	<1	<1	**6**	-	-
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	<1	-	-	<1	<1	**13**	-	-
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	<1	-	-	<1	<1	<1	-	-
TPH (Aromatic) total	T85	M105		mg/kg	N.D.	-	-	N.D.	N.D.	**21**	-	-
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N.D.	-	-	N.D.	N.D.	**23**	-	-
Benzene	T209	M105	0.010	mg/kg	<0.010	-	-	(110) <0.020	(110) <0.030	(110) <0.030	-	-
Toluene	T209	M105	0.010	mg/kg	<0.010	-	-	(110) <0.020	(110) <0.030	(110) <0.030	-	-
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	-	-	(110) <0.020	(110) <0.030	(110) <0.030	-	-
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	<0.010	-	-	(110) <0.020	(110) <0.030	(110) <0.030	-	-
O Xylene	T209	M105	0.010	mg/kg	<0.010	-	-	(110) <0.020	(110) <0.030	(110) <0.030	-	-
M/P Xylene	T209	M105	0.010	mg/kg	<0.010	-	-	(110) <0.020	(110) <0.030	(110) <0.030	-	-
PCB BZ#101	T1	M105	0.00005	mg/kg	-	-	-	-	<0.00005	-	-	-
PCB BZ#118	T1	M105	0.00005	mg/kg	-	-	-	-	<0.00005	-	-	-
PCB BZ#138	T1	M105	0.00005	mg/kg	-	-	-	-	<0.00005	-	-	-
PCB BZ#153	T1	M105	0.00005	mg/kg	-	-	-	-	<0.00005	-	-	-
PCB BZ#180	T1	M105	0.00005	mg/kg	-	-	-	-	<0.00005	-	-	-
PCB BZ#28	T1	M105	0.00005	mg/kg	-	-	-	-	<0.00005	-	-	-
PCB BZ#52	T1	M105	0.00005	mg/kg	-	-	-	-	<0.00005	-	-	-

SAL Reference: 342322
Project Site: A63 Castle St - 10
Customer Reference: 112630

Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**342322 031**	**342322 032**	**342322 033**	**342322 034**	**342322 035**	**342322 041**	**342322 043**
				Customer Sample Reference	**SCPT02 0.5 ES 001**	**BH04 0.5 ES 001**	**BH04 1 ES 002**	**BH02 0.5 ES 001**	**BH02 1 ES 002**	**BH11 5.2 ES 017**	**BH11 3 ES 011**
				Date Sampled	**24-JUL-2013**	**24-JUL-2013**	**24-JUL-2013**	**24-JUL-2013**	**24-JUL-2013**	**24-JUL-2013**	**24-JUL-2013**
				Top Depth	**0.5**	**0.5**	**1**	**0.5**	**1**	**5.2**	**3**
				Type	**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Moisture @ 105 C	T162	AR	0.1	%	**15**	**12**	**20**	**9.6**	**28**	**12**	**30**
Moisture	T277	AR	0.1	%	**14**	**11**	**18**	**8.6**	**24**	**26**	**29**
Asbestos ID	T27	AR			N.D.	N.D.	N.D.	N.D.	N.D.	-	N.D.
pH	T7	AR			**8.3**	**8.3**	**8.1**	**8.0**	**8.4**	**7.9**	**8.1**
Mass Fraction of organic carbon	T286	M40			-	-	-	-	-	-	**0.010**
Arsenic	T6	M40	2	mg/kg	**27**	**12**	**12**	**26**	**16**	**9**	**10**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**27**	**21**	**37**	**32**	**39**	**15**	**26**
Chromium (trivalent)	T85	AR	2	mg/kg	**27**	**21**	**37**	**32**	**39**	**15**	**26**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**89**	**29**	**19**	**330**	**28**	**10**	**13**
Lead	T6	M40	1	mg/kg	**1800**	**240**	**45**	**770**	**79**	**11**	**17**
Mercury	T6	M40	1	mg/kg	**4**	<1	<1	**2**	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**18**	**17**	**32**	**32**	**35**	**17**	**24**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	**50**	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**510**	**98**	**93**	**480**	**100**	**47**	**63**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.30**	**0.09**	**0.07**	**0.31**	**0.07**	**0.74**	**0.56**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	**0.37**	<0.01	<0.01	<0.01
Acenaphthene	T207	M105	0.1	mg/kg	**0.2**	<0.1	<0.1	**3.9**	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	(110) <1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	(110) <1.0	<0.1	<0.1	**10**	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**3.9**	**0.5**	<0.1	**24**	<0.1	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**3.2**	**0.4**	<0.1	**18**	<0.1	<0.1	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**3.3**	**0.5**	<0.1	**18**	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**2.1**	**0.3**	<0.1	**7.7**	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**2.0**	**0.2**	<0.1	**12**	<0.1	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	**4.2**	**0.5**	<0.1	**22**	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	**0.6**	<0.1	<0.1	**2.5**	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**9.1**	**0.9**	<0.1	**70**	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**4.9**	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**1.6**	**0.2**	<0.1	**7.1**	<0.1	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**1.6**	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**5.1**	**0.4**	<0.1	**47**	<0.1	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	**7.7**	**0.8**	<0.1	**56**	<0.1	<0.1	<0.1
PAH(total)	T207	M105	0.1	mg/kg	**43**	**4.7**	<0.1	**300**	<0.1	<0.1	<0.1
TPH (C8-C10)	T8	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
TPH (C10-C12)	T206	M105	1	mg/kg	<1	**1**	<1	<1	<1	<1	<1
TPH (C12-C16)	T206	M105	1	mg/kg	**4**	**5**	<1	**2**	<1	<1	<1
TPH (C16-C21)	T206	M105	1	mg/kg	**27**	**25**	<1	**15**	<1	<1	<1
TPH (C21-C35)	T206	M105	1	mg/kg	**68**	**47**	<1	**35**	**2**	<1	<1
TPH (C35-C40)	T8	M105	1	mg/kg	**3**	**2**	<1	**2**	<1	<1	<1
TPH (C8 - C40)	T85	M105	1	mg/kg	**102**	**80**	<1	**54**	**2**	<1	<1

SAL Reference: 342322
Project Site: A63 Castle St - 10
Customer Reference: 112630

Soil Analysed as Soil

Volatile Organic Compounds (USEPA 624) (MCERTS)

				SAL Reference	**342322 006**	**342322 023**	**342322 026**
				Customer Sample Reference	**BH37 6.5 ES 025**	**BH37 4 ES 015**	**BH22 0.5 ES 003**
				Date Sampled	**24-JUL-2013**	**24-JUL-2013**	**24-JUL-2013**
				Top Depth	**6.5**	**4**	**0.5**
				Type	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
1,1-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
1,1-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
1,2-dibromoethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
1,2-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
1,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
1,3-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
2,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
2-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
4-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Benzene	T209	M105	0.010	mg/kg	<0.010	(110) <0.030	(110) <0.030
Bromobenzene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Bromochloromethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Bromodichloromethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Bromoform	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Bromomethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Carbon tetrachloride	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Chlorobenzene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Chlorodibromomethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Chloroethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Chloroform	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Chloromethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Dibromomethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Dichloromethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	(110) <0.030	(110) <0.030
Isopropyl benzene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
M/P Xylene	T209	M105	0.010	mg/kg	<0.010	(110) <0.030	(110) <0.030
n-Propylbenzene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
O Xylene	T209	M105	0.010	mg/kg	<0.010	(110) <0.030	(110) <0.030
p-Isopropyltoluene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
S-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Styrene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
T-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Tetrachloroethene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Toluene	T209	M105	0.010	mg/kg	<0.010	(110) <0.030	(110) <0.030
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Trichloroethene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Trichlorofluoromethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15
Vinyl chloride	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	(110) <0.15

SAL Reference: 342322
Project Site: A63 Castle St - 10
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

				SAL Reference	**342322 006**	**342322 023**	**342322 026**
				Customer Sample Reference	**BH37 6.5 ES 025**	**BH37 4 ES 015**	**BH22 0.5 ES 003**
				Date Sampled	**24-JUL-2013**	**24-JUL-2013**	**24-JUL-2013**
				Top Depth	**6.5**	**4**	**0.5**
				Type	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.7**
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.1**
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.3**
Azobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.9**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.7**
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	**1.5**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.4**
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.3**
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Carbazole	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	<0.1	<0.1	**1.0**
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.1**
Dibenzofuran	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.3**
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	**2.5**
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.4**
Isophorone	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.7**
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**1.8**

SAL Reference: 342322
Project Site: A63 Castle St - 10
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

				SAL Reference	**342322 006**	**342322 023**	**342322 026**
				Customer Sample Reference	**BH37 6.5 ES 025**	**BH37 4 ES 015**	**BH22 0.5 ES 003**
				Date Sampled	**24-JUL-2013**	**24-JUL-2013**	**24-JUL-2013**
				Top Depth	**6.5**	**4**	**0.5**
				Type	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**2.2**

SAL Reference: 342322
Project Site: A63 Castle St - 10
Customer Reference: 112630

Leachate to BS EN 12457-2 (10:1) Analysed as Water
Grontmij A63 Hull Leachate Suite

				SAL Reference	**342322 023**	**342322 026**
				Customer Sample Reference	**BH37 4 ES 015**	**BH22 0.5 ES 003**
				Date Sampled	**24-JUL-2013**	**24-JUL-2013**
				Top Depth	**4**	**0.5**
				Type	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
pH	T7	10:1			**8.2**	**7.9**
As (Dissolved)	T281	10:1	0.2	µg/l	**56**	**3.7**
Boron	T6	10:1	10	µg/l	**1100**	**25**
Cd (Dissolved)	T281	10:1	0.02	µg/l	**0.07**	<0.02
Cr (Dissolved)	T281	10:1	1	µg/l	<1	**2**
Chromium (trivalent)	T85	10:1	3	µg/l	<3	<3
Chromium VI	T686	10:1	3	µg/l	<3	<3
Cu (Dissolved)	T281	10:1	0.5	µg/l	**1.0**	**16**
Pb (Dissolved)	T281	10:1	0.3	µg/l	**0.5**	**2.2**
Hg (Dissolved)	T281	10:1	0.05	µg/l	<0.05	<0.05
Ni (Dissolved)	T281	10:1	1	µg/l	**2**	<1
Se (Dissolved)	T281	10:1	0.5	µg/l	**0.8**	**0.7**
Zn (Dissolved)	T281	10:1	2	µg/l	<2	<2
Sulphate	T686	10:1	0.5	mg/l	**65**	**6.7**
Sulphide	T4	10:1	0.05	mg/l	<0.05	<0.05
Sulphur (total)	T65	10:1	0.01	mg/l	**22**	**2.1**
Total Phenols	T16	10:1	0.5	µg/l	<0.5	<0.5
Cyanide(Total)	T220	10:1	10	µg/l	<10	<10
Cyanide(free)	T220	10:1	10	µg/l	<10	<10
Acenaphthene	T149	10:1	0.01	µg/l	<0.01	**0.02**
Acenaphthylene	T149	10:1	0.01	µg/l	<0.01	<0.01
Anthracene	T149	10:1	0.01	µg/l	<0.01	**0.02**
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	**0.04**	**0.09**
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	**0.06**	**0.12**
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	**0.06**	**0.15**
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	**0.05**	**0.15**
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	**0.03**	**0.11**
Chrysene	T149	10:1	0.01	µg/l	**0.06**	**0.10**
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	**0.03**	**0.11**
Fluoranthene	T149	10:1	0.01	µg/l	**0.03**	**0.06**
Fluorene	T149	10:1	0.01	µg/l	<0.01	**0.02**
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	**0.05**	**0.13**
Naphthalene	T149	10:1	0.01	µg/l	<0.01	**0.06**
Phenanthrene	T149	10:1	0.01	µg/l	**0.03**	**0.04**
Pyrene	T149	10:1	0.01	µg/l	**0.02**	**0.06**
PAH(total)	T149	10:1	0.01	µg/l	**0.55**	**1.5**
PAH (sum of 4)	T85	10:1		µg/l	**0.19**	**0.54**
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	**0.09**	**0.26**
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	**0.10**	**0.28**
TPH (C8-C10) DW	T81	10:1	10	µg/l	(100) <30	(100) <20
TPH (C10-C12) DW	T81	10:1	10	µg/l	(100) <30	(100) <20
TPH (C12-C16) DW	T81	10:1	10	µg/l	(100) <30	(100) <20
TPH (C16-C21) DW	T81	10:1	10	µg/l	(100) <30	(100) <20
TPH (C21-C35) DW	T81	10:1	10	µg/l	(100) <30	(100) <20
TPH (C35-C40)	T81	10:1	10	µg/l	(100) <30	(100) <20
TPH (C8 - C40)	T85	10:1	10	µg/l	(100) <30	(100) <20

Index to symbols used in 342322-3

Value	Description
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
AR	As Received

10:1	Leachate to BS EN 12457-2 (10:1)
N.D.	Not Detected
100	LOD determined by sample aliquot used for analysis
110	LOD raised due to low internal standard recovery.
W	Analysis was performed at another SAL laboratory
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T8	GC/FID
T686	Discrete Analyser
T546	Colorimetry (CF)
T65	ICP/OES (Preconc.)
T16	GC/MS
T1	GC/MS (HR)
T207	GC/MS(MCERTS)
T4	Colorimetry
T7	Probe
T286	Calc TOC/100
T85	Calc
T162	Grav (1 Dec) (105 C)
T81	GC/FID (LV)
T277	Grav (1 Dec) (40 C)
T220	Colorimetry (SD)
T27	PLM
T281	ICP/MS (Filtered)
T6	ICP/OES
T149	GC/MS (SIR)
T209	GC/MS(Head Space)(MCERTS)
T206	GC/FID (MCERTS)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture @ 105 C	T162	AR	0.1	%	N	001,006,013,016,023,026-028,031-035,041,043
Moisture	T277	AR	0.1	%	N	001,006,013,016,023,026-028,031-035,041,043
Asbestos ID	T27	AR			SU	001,013,016,023,026-028,031-035,043
pH	T7	AR			M	001,006,013,016,023,026-028,031-035,041,043
Mass Fraction of organic carbon	T286	M40			N	001,016,023,026,043
Arsenic	T6	M40	2	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
Boron (water-soluble)	T6	AR	1	mg/kg	N	001,006,013,016,023,026-028,031-035,041,043
Cadmium	T6	M40	1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
Chromium	T6	M40	1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
Chromium (trivalent)	T85	AR	2	mg/kg	N	001,006,013,016,023,026-028,031-035,041,043
Chromium VI	T6	AR	1	mg/kg	N	001,006,013,016,023,026-028,031-035,041,043
Copper	T6	M40	1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
Lead	T6	M40	1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
Mercury	T6	M40	1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
Nickel	T6	M40	1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
Selenium	T6	M40	3	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
Zinc	T6	M40	1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
Cyanide(Total)	T546	AR	1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
Cyanide(free)	T546	AR	1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
SO4(Total)	T6	M40	0.01	%	N	001,006,013,016,023,026-028,031-035,041,043
Total Phenols	T149	AR	0.01	mg/kg	U	001,006,013,016,023,026-028,031-035,041,043
Acenaphthene	T207	M105	0.1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
Acenaphthylene	T207	M105	0.1	mg/kg	U	001,006,013,016,023,026-028,031-035,041,043
Anthracene	T207	M105	0.1	mg/kg	U	001,006,013,016,023,026-028,031-035,041,043
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
Chrysene	T207	M105	0.1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Fluoranthene	T207	M105	0.1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
Fluorene	T207	M105	0.1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
Naphthalene	T207	M105	0.1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
Phenanthrene	T207	M105	0.1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
Pyrene	T207	M105	0.1	mg/kg	M	001,006,013,016,023,026-028,031-035,041,043
PAH(total)	T207	M105	0.1	mg/kg	U	001,006,013,016,023,026-028,031-035,041,043
TPH (C8-C10)	T8	M105	1	mg/kg	N	006,013,027-028,031-035,041,043
TPH (C10-C12)	T206	M105	1	mg/kg	M	006,013,027-028,031-035,041,043
TPH (C12-C16)	T206	M105	1	mg/kg	M	006,013,027-028,031-035,041,043
TPH (C16-C21)	T206	M105	1	mg/kg	M	006,013,027-028,031-035,041,043
TPH (C21-C35)	T206	M105	1	mg/kg	M	006,013,027-028,031-035,041,043
TPH (C35-C40)	T8	M105	1	mg/kg	N	006,013,027-028,031-035,041,043
TPH (C8 - C40)	T85	M105	1	mg/kg	N	006,013,027-028,031-035,041,043
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	N	001,016,023,026
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	N	001,016,023,026
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	N	001,016,023,026
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	M	001,016,023,026
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	M	001,016,023,026
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	M	001,016,023,026
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	M	001,016,023,026
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	N	001,016,023,026
TPH (Aliphatic) total	T85	M105		mg/kg	N	001,016,023,026
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	N	001,016,023,026
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	N	001,016,023,026
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	N	001,016,023,026
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	M	001,016,023,026
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	M	001,016,023,026
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	M	001,016,023,026
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	M	001,016,023,026
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	N	001,016,023,026
TPH (Aromatic) total	T85	M105		mg/kg	N	001,016,023,026
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N	001,016,023,026
Benzene	T209	M105	0.010	mg/kg	M	001,006,016,023,026
Toluene	T209	M105	0.010	mg/kg	M	001,006,016,023,026
EthylBenzene	T209	M105	0.010	mg/kg	M	001,006,016,023,026
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	M	001,016,023,026
O Xylene	T209	M105	0.010	mg/kg	M	001,006,016,023,026
M/P Xylene	T209	M105	0.010	mg/kg	M	001,006,016,023,026
PCB BZ#101	T1	M105	0.00005	mg/kg	M	023
PCB BZ#118	T1	M105	0.00005	mg/kg	M	023
PCB BZ#138	T1	M105	0.00005	mg/kg	M	023
PCB BZ#153	T1	M105	0.00005	mg/kg	M	023
PCB BZ#180	T1	M105	0.00005	mg/kg	M	023
PCB BZ#28	T1	M105	0.00005	mg/kg	M	023
PCB BZ#52	T1	M105	0.00005	mg/kg	M	023
pH	T7	10:1			U	023,026
As (Dissolved)	T281	10:1	0.2	µg/l	U	023,026
Boron	T6	10:1	10	µg/l	N	023,026
Cd (Dissolved)	T281	10:1	0.02	µg/l	U	023,026
Cr (Dissolved)	T281	10:1	1	µg/l	U	023,026
Chromium (trivalent)	T85	10:1	3	µg/l	N	023,026
Chromium VI	T686	10:1	3	µg/l	U	023,026
Cu (Dissolved)	T281	10:1	0.5	µg/l	U	023,026
Pb (Dissolved)	T281	10:1	0.3	µg/l	U	023,026
Hg (Dissolved)	T281	10:1	0.05	µg/l	U	023,026
Ni (Dissolved)	T281	10:1	1	µg/l	U	023,026
Se (Dissolved)	T281	10:1	0.5	µg/l	U	023,026
Zn (Dissolved)	T281	10:1	2	µg/l	U	023,026
Sulphate	T686	10:1	0.5	mg/l	U	023,026
Sulphide	T4	10:1	0.05	mg/l	N	023,026
Sulphur (total)	T65	10:1	0.01	mg/l	N	023,026
Total Phenols	T16	10:1	0.5	µg/l	U	023,026
Cyanide(Total)	T220	10:1	10	µg/l	WU	023,026
Cyanide(free)	T220	10:1	10	µg/l	WN	023,026
Acenaphthene	T149	10:1	0.01	µg/l	U	023,026
Acenaphthylene	T149	10:1	0.01	µg/l	U	023,026
Anthracene	T149	10:1	0.01	µg/l	U	023,026
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	U	023,026
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	U	023,026

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	U	023,026
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	U	023,026
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	U	023,026
Chrysene	T149	10:1	0.01	µg/l	U	023,026
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	U	023,026
Fluoranthene	T149	10:1	0.01	µg/l	U	023,026
Fluorene	T149	10:1	0.01	µg/l	U	023,026
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	U	023,026
Naphthalene	T149	10:1	0.01	µg/l	U	023,026
Phenanthrene	T149	10:1	0.01	µg/l	U	023,026
Pyrene	T149	10:1	0.01	µg/l	U	023,026
PAH(total)	T149	10:1	0.01	µg/l	U	023,026
PAH (sum of 4)	T85	10:1		µg/l	N	023,026
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	U	023,026
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	N	023,026
TPH (C8-C10) DW	T81	10:1	10	µg/l	U	023,026
TPH (C10-C12) DW	T81	10:1	10	µg/l	U	023,026
TPH (C12-C16) DW	T81	10:1	10	µg/l	U	023,026
TPH (C16-C21) DW	T81	10:1	10	µg/l	U	023,026
TPH (C21-C35) DW	T81	10:1	10	µg/l	U	023,026
TPH (C35-C40)	T81	10:1	10	µg/l	N	023,026
TPH (C8 - C40)	T85	10:1	10	µg/l	N	023,026
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	006,023,026
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	006,023,026
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	006,023,026
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	006,023,026
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	006,023,026
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	006,023,026
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	006,023,026
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	006,023,026
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	U	006,023,026
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	006,023,026
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	006,023,026
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	006,023,026
2-Chlorophenol	T207	M105	0.1	mg/kg	M	006,023,026
2-methyl phenol	T207	M105	0.1	mg/kg	M	006,023,026
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	006,023,026
2-Nitroaniline	T207	M105	0.1	mg/kg	M	006,023,026
2-Nitrophenol	T207	M105	0.1	mg/kg	U	006,023,026
3-Nitroaniline	T207	M105	0.1	mg/kg	U	006,023,026
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	006,023,026
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	006,023,026
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	006,023,026
4-Chloroaniline	T207	M105	0.1	mg/kg	U	006,023,026
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	006,023,026
4-Nitroaniline	T207	M105	0.1	mg/kg	U	006,023,026
4-Nitrophenol	T207	M105	0.1	mg/kg	U	006,023,026
Azobenzene	T207	M105	0.1	mg/kg	M	006,023,026
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	006,023,026
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	006,023,026
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	006,023,026
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	006,023,026
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	006,023,026
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	006,023,026
Carbazole	T207	M105	0.1	mg/kg	U	006,023,026
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	006,023,026
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	006,023,026
Dibenzofuran	T207	M105	0.1	mg/kg	M	006,023,026
Diethyl phthalate	T207	M105	0.1	mg/kg	U	006,023,026
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	006,023,026
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	006,023,026
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	006,023,026
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	006,023,026
Hexachloroethane	T207	M105	0.1	mg/kg	U	006,023,026
Isophorone	T207	M105	0.1	mg/kg	U	006,023,026
Nitrobenzene	T207	M105	0.1	mg/kg	M	006,023,026
Pentachlorophenol	T207	M105	0.1	mg/kg	U	006,023,026
Phenol	T207	M105	0.1	mg/kg	M	006,023,026
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	M	006,023,026
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	M	006,023,026

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	U	006,023,026
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	M	006,023,026
1,1-Dichloroethane	T209	M105	0.050	mg/kg	M	006,023,026
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	M	006,023,026
1,1-Dichloropropene	T209	M105	0.050	mg/kg	M	006,023,026
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	U	006,023,026
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	M	006,023,026
1,2-dibromoethane	T209	M105	0.050	mg/kg	M	006,023,026
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	M	006,023,026
1,2-Dichloroethane	T209	M105	0.050	mg/kg	M	006,023,026
1,2-Dichloropropane	T209	M105	0.050	mg/kg	M	006,023,026
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	M	006,023,026
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	M	006,023,026
1,3-Dichloropropane	T209	M105	0.050	mg/kg	M	006,023,026
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	M	006,023,026
2,2-Dichloropropane	T209	M105	0.050	mg/kg	U	006,023,026
2-Chlorotoluene	T209	M105	0.050	mg/kg	U	006,023,026
4-Chlorotoluene	T209	M105	0.050	mg/kg	U	006,023,026
Bromobenzene	T209	M105	0.050	mg/kg	M	006,023,026
Bromochloromethane	T209	M105	0.050	mg/kg	M	006,023,026
Bromodichloromethane	T209	M105	0.050	mg/kg	M	006,023,026
Bromoform	T209	M105	0.050	mg/kg	M	006,023,026
Bromomethane	T209	M105	0.050	mg/kg	U	006,023,026
Carbon tetrachloride	T209	M105	0.050	mg/kg	M	006,023,026
Chlorobenzene	T209	M105	0.050	mg/kg	M	006,023,026
Chlorodibromomethane	T209	M105	0.050	mg/kg	M	006,023,026
Chloroethane	T209	M105	0.050	mg/kg	M	006,023,026
Chloroform	T209	M105	0.050	mg/kg	M	006,023,026
Chloromethane	T209	M105	0.050	mg/kg	U	006,023,026
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	M	006,023,026
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	006,023,026
Dibromomethane	T209	M105	0.050	mg/kg	M	006,023,026
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	M	006,023,026
Dichloromethane	T209	M105	0.050	mg/kg	U	006,023,026
Isopropyl benzene	T209	M105	0.050	mg/kg	M	006,023,026
n-Propylbenzene	T209	M105	0.050	mg/kg	M	006,023,026
p-Isopropyltoluene	T209	M105	0.050	mg/kg	M	006,023,026
S-Butylbenzene	T209	M105	0.050	mg/kg	M	006,023,026
Styrene	T209	M105	0.050	mg/kg	U	006,023,026
T-Butylbenzene	T209	M105	0.050	mg/kg	M	006,023,026
Tetrachloroethene	T209	M105	0.050	mg/kg	M	006,023,026
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	M	006,023,026
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	006,023,026
Trichloroethene	T209	M105	0.050	mg/kg	M	006,023,026
Trichlorofluoromethane	T209	M105	0.050	mg/kg	M	006,023,026
Vinyl chloride	T209	M105	0.050	mg/kg	M	006,023,026

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Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 342710-2

Date of Report: 14-Aug-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 12
Date Job Received at SAL: 26-Jul-2013
Date Analysis Started: 31-Jul-2013
Date Analysis Completed: 14-Aug-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Lianne Bromiley
Project Manager

Issued by :
Lianne Bromiley
Project Manager

[redacted]

SAL Reference: 342710
Project Site: A63 Castle St - 12
Customer Reference: 112630

Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**342710 002**	**342710 008**
				Customer Sample Reference	**BH02 ES 008 2.80**	**BH02 ES 013 4.70**
				Top Depth	**2.80**	**4.70**
				Date Sampled	**26-JUL-2013**	**26-JUL-2013**
				Type	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Moisture @ 105 C	T162	AR	0.1	%	**27**	**26**
Moisture	T277	AR	0.1	%	**27**	**27**
Asbestos ID	T27	AR			N.D.	-
pH	T7	AR			**7.7**	**7.3**
Mass Fraction of organic carbon	T286	M40			**0.011**	-
Arsenic	T6	M40	2	mg/kg	**12**	**9**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1
Chromium	T6	M40	1	mg/kg	**18**	**15**
Chromium (trivalent)	T85	AR	2	mg/kg	**18**	**15**
Chromium VI	T6	AR	1	mg/kg	<1	<1
Copper	T6	M40	1	mg/kg	**13**	**11**
Lead	T6	M40	1	mg/kg	**14**	**11**
Mercury	T6	M40	1	mg/kg	<1	<1
Nickel	T6	M40	1	mg/kg	**21**	**17**
Selenium	T6	M40	3	mg/kg	<3	<3
Zinc	T6	M40	1	mg/kg	**62**	**47**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1
SO4(Total)	T6	M40	0.01	%	**1.3**	**0.78**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1
PAH(total)	T207	M105	0.1	mg/kg	<0.1	<0.1
TPH (C8-C10)	T8	AR	1	mg/kg	-	<1
TPH (C10-C12)	T206	AR	1	mg/kg	-	<1
TPH (C12-C16)	T206	AR	1	mg/kg	-	<1
TPH (C16-C21)	T206	AR	1	mg/kg	-	<1
TPH (C21-C35)	T206	AR	1	mg/kg	-	<1
TPH (C35-C40)	T8	AR	1	mg/kg	-	<1
TPH (C8 - C40)	T85	AR	1	mg/kg	-	<1
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	<0.100	-
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	<0.10	-
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	<0.10	-
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	<1	-
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	<2	-
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	<1	-
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	<4	-
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	<1	-
TPH (Aliphatic) total	T85	M105		mg/kg	N.D.	-
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	<0.10	-

SAL Reference: 342710
Project Site: A63 Castle St - 12
Customer Reference: 112630

Soil Analysed as Soil
MCERTS Preparation

SAL Reference	**342710 002**	**342710 008**
Customer Sample Reference	**BH02 ES 008 2.80**	**BH02 ES 013 4.70**
Top Depth	**2.80**	**4.70**
Date Sampled	**26-JUL-2013**	**26-JUL-2013**
Type	**Clay**	**Clay**

Determinand	Method	Test Sample	LOD	Units		
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	<0.10	-
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	<0.10	-
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	<1	-
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	<1	-
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	<1	-
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	<1	-
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	<1	-
TPH (Aromatic) total	T85	M105		mg/kg	N.D.	-
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N.D.	-
Benzene	T209	M105	0.010	mg/kg	<0.010	-
Toluene	T209	M105	0.010	mg/kg	<0.010	-
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	-
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	<0.010	-
O Xylene	T209	M105	0.010	mg/kg	<0.010	-
M/P Xylene	T209	M105	0.010	mg/kg	<0.010	-

SAL Reference: 342710
Project Site: A63 Castle St - 12
Customer Reference: 112630

Leachate to BS EN 12457-2 (10:1) Analysed as Water
Grontmij A63 Hull Leachate Suite

SAL Reference	**342710 002**
Customer Sample Reference	**BH02 ES 008 2.80**
Top Depth	**2.80**
Date Sampled	**26-JUL-2013**
Type	**Clay**

Determinand	Method	Test Sample	LOD	Units	
pH	T7	10:1			**7.7**
As (Dissolved)	T281	10:1	0.2	µg/l	**1.0**
Boron	T6	10:1	10	µg/l	**62**
Cd (Dissolved)	T281	10:1	0.02	µg/l	<0.02
Cr (Dissolved)	T281	10:1	1	µg/l	**1**
Chromium (trivalent)	T85	10:1	3	µg/l	<3
Chromium VI	T686	10:1	3	µg/l	<3
Cu (Dissolved)	T281	10:1	0.5	µg/l	**2.4**
Pb (Dissolved)	T281	10:1	0.3	µg/l	**7.9**
Hg (Dissolved)	T281	10:1	0.05	µg/l	<0.05
Ni (Dissolved)	T281	10:1	1	µg/l	**3**
Se (Dissolved)	T281	10:1	0.5	µg/l	<0.5
Zn (Dissolved)	T281	10:1	2	µg/l	**7**
Sulphate	T686	10:1	0.5	mg/l	**66**
Sulphide	T4	10:1	0.05	mg/l	<0.05
Sulphur (total)	T65	10:1	0.01	mg/l	**23**
Total Phenols	T16	10:1	0.5	µg/l	<0.5
Cyanide(Total)	T220	10:1	10	µg/l	<10
Cyanide(free)	T220	10:1	10	µg/l	<10
Acenaphthene	T149	10:1	0.01	µg/l	(100) <0.02
Acenaphthylene	T149	10:1	0.01	µg/l	(100) <0.02
Anthracene	T149	10:1	0.01	µg/l	(100) <0.02
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	(100) <0.02
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	(100) <0.02
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	(100) <0.02
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	(100) <0.02
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	(100) <0.02
Chrysene	T149	10:1	0.01	µg/l	(100) <0.02
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	(100) <0.02
Fluoranthene	T149	10:1	0.01	µg/l	(100) <0.02
Fluorene	T149	10:1	0.01	µg/l	(100) <0.02
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	(100) <0.02
Naphthalene	T149	10:1	0.01	µg/l	(100) <0.02
Phenanthrene	T149	10:1	0.01	µg/l	(100) <0.02
Pyrene	T149	10:1	0.01	µg/l	(100) <0.02
PAH(total)	T149	10:1	0.01	µg/l	(100) <0.02
PAH (sum of 4)	T85	10:1		µg/l	N.D.
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	(100) <0.02
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	N.D.
TPH (C8-C10) DW	T81	10:1	10	µg/l	(100) <20
TPH (C10-C12) DW	T81	10:1	10	µg/l	(100) <20
TPH (C12-C16) DW	T81	10:1	10	µg/l	(100) <20
TPH (C16-C21) DW	T81	10:1	10	µg/l	(100) <20
TPH (C21-C35) DW	T81	10:1	10	µg/l	(100) <20
TPH (C35-C40)	T81	10:1	10	µg/l	(100) <20
TPH (C8 - C40)	T85	10:1	10	µg/l	(100) <20

SAL Reference:	342710
Project Site:	A63 Castle St - 12
Customer Reference:	112630

Soil Analysed as Soil

Miscellaneous

SAL Reference	**342710 002**
Customer Sample Reference	**BH02 ES 008 2.80**
Top Depth	**2.80**
Date Sampled	**26-JUL-2013**
Type	**Clay**

Determinand	Method	Test Sample	LOD	Units	
BS EN 12457-2 10:1	T2	AR			-

Index to symbols used in 342710-2

Value	Description
AR	As Received
10:1	Leachate to BS EN 12457-2 (10:1)
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
N.D.	Not Detected
100	LOD determined by sample aliquot used for analysis
W	Analysis was performed at another SAL laboratory
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T8	GC/FID
T2	Grav
T281	ICP/MS (Filtered)
T546	Colorimetry (CF)
T686	Discrete Analyser
T7	Probe
T81	GC/FID (LV)
T16	GC/MS
T277	Grav (1 Dec) (40 C)
T220	Colorimetry (SD)
T27	PLM
T6	ICP/OES
T149	GC/MS (SIR)
T65	ICP/OES (Preconc.)
T206	GC/FID (MCERTS)
T4	Colorimetry
T207	GC/MS(MCERTS)
T209	GC/MS(Head Space)(MCERTS)
T85	Calc
T162	Grav (1 Dec) (105 C)
T286	Calc TOC/100

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture @ 105 C	T162	AR	0.1	%	N	002,008
Moisture	T277	AR	0.1	%	N	002,008
Asbestos ID	T27	AR			SU	002
pH	T7	AR			M	002,008
Mass Fraction of organic carbon	T286	M40			N	002
Arsenic	T6	M40	2	mg/kg	M	002,008
Boron (water-soluble)	T6	AR	1	mg/kg	N	002,008

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Cadmium	T6	M40	1	mg/kg	M	002,008
Chromium	T6	M40	1	mg/kg	M	002,008
Chromium (trivalent)	T85	AR	2	mg/kg	N	002,008
Chromium VI	T6	AR	1	mg/kg	N	002,008
Copper	T6	M40	1	mg/kg	M	002,008
Lead	T6	M40	1	mg/kg	M	002,008
Mercury	T6	M40	1	mg/kg	M	002,008
Nickel	T6	M40	1	mg/kg	M	002,008
Selenium	T6	M40	3	mg/kg	M	002,008
Zinc	T6	M40	1	mg/kg	M	002,008
Cyanide(Total)	T546	AR	1	mg/kg	M	002,008
Cyanide(free)	T546	AR	1	mg/kg	M	002,008
SO4(Total)	T6	M40	0.01	%	N	002,008
Total Phenols	T149	AR	0.01	mg/kg	U	002,008
Acenaphthene	T207	M105	0.1	mg/kg	M	002,008
Acenaphthylene	T207	M105	0.1	mg/kg	U	002,008
Anthracene	T207	M105	0.1	mg/kg	U	002,008
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	002,008
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	002,008
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	002,008
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	002,008
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	002,008
Chrysene	T207	M105	0.1	mg/kg	M	002,008
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	002,008
Fluoranthene	T207	M105	0.1	mg/kg	M	002,008
Fluorene	T207	M105	0.1	mg/kg	M	002,008
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	002,008
Naphthalene	T207	M105	0.1	mg/kg	M	002,008
Phenanthrene	T207	M105	0.1	mg/kg	M	002,008
Pyrene	T207	M105	0.1	mg/kg	M	002,008
PAH(total)	T207	M105	0.1	mg/kg	U	002,008
TPH (C8-C10)	T8	AR	1	mg/kg	N	008
TPH (C10-C12)	T206	AR	1	mg/kg	M	008
TPH (C12-C16)	T206	AR	1	mg/kg	M	008
TPH (C16-C21)	T206	AR	1	mg/kg	M	008
TPH (C21-C35)	T206	AR	1	mg/kg	M	008
TPH (C35-C40)	T8	AR	1	mg/kg	N	008
TPH (C8 - C40)	T85	AR	1	mg/kg	N	008
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	N	002
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	N	002
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	N	002
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	M	002
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	M	002
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	M	002
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	M	002
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	N	002
TPH (Aliphatic) total	T85	M105		mg/kg	N	002
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	N	002
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	N	002
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	N	002
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	M	002
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	M	002
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	M	002
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	M	002
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	N	002
TPH (Aromatic) total	T85	M105		mg/kg	N	002
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N	002
Benzene	T209	M105	0.010	mg/kg	M	002
Toluene	T209	M105	0.010	mg/kg	M	002
EthylBenzene	T209	M105	0.010	mg/kg	M	002
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	M	002
O Xylene	T209	M105	0.010	mg/kg	M	002
M/P Xylene	T209	M105	0.010	mg/kg	M	002
pH	T7	10:1			U	002
As (Dissolved)	T281	10:1	0.2	µg/l	U	002
Boron	T6	10:1	10	µg/l	N	002
Cd (Dissolved)	T281	10:1	0.02	µg/l	U	002
Cr (Dissolved)	T281	10:1	1	µg/l	U	002
Chromium (trivalent)	T85	10:1	3	µg/l	N	002
Chromium VI	T686	10:1	3	µg/l	U	002

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Cu (Dissolved)	T281	10:1	0.5	µg/l	U	002
Pb (Dissolved)	T281	10:1	0.3	µg/l	U	002
Hg (Dissolved)	T281	10:1	0.05	µg/l	U	002
Ni (Dissolved)	T281	10:1	1	µg/l	U	002
Se (Dissolved)	T281	10:1	0.5	µg/l	U	002
Zn (Dissolved)	T281	10:1	2	µg/l	U	002
Sulphate	T686	10:1	0.5	mg/l	U	002
Sulphide	T4	10:1	0.05	mg/l	N	002
Sulphur (total)	T65	10:1	0.01	mg/l	N	002
Total Phenols	T16	10:1	0.5	µg/l	U	002
Cyanide(Total)	T220	10:1	10	µg/l	WU	002
Cyanide(free)	T220	10:1	10	µg/l	WN	002
Acenaphthene	T149	10:1	0.01	µg/l	U	002
Acenaphthylene	T149	10:1	0.01	µg/l	U	002
Anthracene	T149	10:1	0.01	µg/l	U	002
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	U	002
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	U	002
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	U	002
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	U	002
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	U	002
Chrysene	T149	10:1	0.01	µg/l	U	002
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	U	002
Fluoranthene	T149	10:1	0.01	µg/l	U	002
Fluorene	T149	10:1	0.01	µg/l	U	002
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	U	002
Naphthalene	T149	10:1	0.01	µg/l	U	002
Phenanthrene	T149	10:1	0.01	µg/l	U	002
Pyrene	T149	10:1	0.01	µg/l	U	002
PAH(total)	T149	10:1	0.01	µg/l	U	002
PAH (sum of 4)	T85	10:1		µg/l	N	002
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	U	002
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	N	002
TPH (C8-C10) DW	T81	10:1	10	µg/l	U	002
TPH (C10-C12) DW	T81	10:1	10	µg/l	U	002
TPH (C12-C16) DW	T81	10:1	10	µg/l	U	002
TPH (C16-C21) DW	T81	10:1	10	µg/l	U	002
TPH (C21-C35) DW	T81	10:1	10	µg/l	U	002
TPH (C35-C40)	T81	10:1	10	µg/l	N	002
TPH (C8 - C40)	T85	10:1	10	µg/l	N	002
BS EN 12457-2 10:1	T2	AR			N	002

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: Supplement to 343384-1

Date of Report: 27-Aug-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: LEE12MIJ382
Customer Site Reference: A63 Castle St - 13, 14, 15 and 16
Date Job Received at SAL: 30-Jul-2013
Date Analysis Started: 07-Aug-2013
Date Analysis Completed: 19-Aug-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
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Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Annie Hennis
Project Manager

Issued by :
Annie Hennis
Project Manager

[redacted]

SAL Reference: 343384
Project Site: A63 Castle St - 13, 14, 15 and 16
Customer Reference: 112630

Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**343384 002**	**343384 007**	**343384 013**	**343384 017**	**343384 019**	**343384 021**
				Customer Sample Reference	**BH40A ES 024 6.7**	**BH40A ES 008 2.7**	**BH40A ES 001 0.8**	**BH03 ES 002 0.7**	**MC03 ES 002 0.5**	**SCPT1 ES 002 1.0**
				Date Sampled	**30-JUL-2013**	**30-JUL-2013**	**29-JUL-2013**	**30-JUL-2013**	**30-JUL-2013**	**30-JUL-2013**
				Top Depth	**6.7**	**2.7**	**0.8**	**0.7**	**0.5**	**1.0**
				Type	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
Moisture	T277	AR	0.1	%	**24**	**28**	**26**	**23**	**24**	**22**
Moisture @ 105 C	T162	AR	0.1	%	**25**	**30**	**29**	**25**	**25**	**23**

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Soil Analysed as Soil
MCERTS Preparation

				SAL Reference	**343384 022**	**343384 025**	**343384 026**	**343384 033**	**343384 034**
				Customer Sample Reference	**SCPT3c ES 001 0.5**	**BH01 ES 002 1.0**	**SCPT5B ES 001 0.5**	**BH04 ES 001 1.6**	**BH04 ES 015 5.4**
				Date Sampled	**30-JUL-2013**	**30-JUL-2013**	**31-JUL-2013**	**31-JUL-2013**	**31-JUL-2013**
				Top Depth	**0.2**	**1.0**	**0.5**	**1.6**	**5.4**
				Type	**Sandy Soil**	**Clay**	**Sandy Soil**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture	T277	AR	0.1	%	**15**	**24**	**14**	**21**	**32**
Moisture @ 105 C	T162	AR	0.1	%	**15**	**24**	**11**	**22**	**32**

SAL Reference: 343384
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Soil Analysed as Soil
Grontmij A63 Hull Standard Suite

				SAL Reference	**343384 007**	**343384 013**	**343384 017**	**343384 019**	**343384 022**	**343384 025**
				Customer Sample Reference	**BH40A ES 008 2.7**	**BH40A ES 001 0.8**	**BH03 ES 002 0.7**	**MC03 ES 002 0.5**	**SCPT3c ES 001 0.5**	**BH01 ES 002 1.0**
				Date Sampled	**30-JUL-2013**	**29-JUL-2013**	**30-JUL-2013**	**30-JUL-2013**	**30-JUL-2013**	**30-JUL-2013**
				Top Depth	**2.7**	**0.8**	**0.7**	**0.5**	**0.2**	**1.0**
				Type	**Clay**	**Clay**	**Clay**	**Clay**	**Sandy Soil**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
Asbestos ID	T27	AR			N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
pH	T7	AR			**8.2**	**8.2**	**8.0**	**7.8**	**8.2**	**7.9**
Arsenic	T6	M40	2	mg/kg	**10**	**11**	**19**	**21**	**17**	**15**
Boron (water-soluble)	T6	AR	1	mg/kg	**2**	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**17**	**20**	**36**	**38**	**24**	**37**
Chromium (trivalent)	T85	AR	2	mg/kg	**17**	**20**	**36**	**38**	**24**	**37**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**13**	**13**	**37**	**22**	**40**	**22**
Lead	T6	M40	1	mg/kg	**24**	**16**	**43**	**38**	**220**	**45**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**18**	**21**	**38**	**43**	**23**	**36**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**40**	**48**	**86**	**94**	**100**	**92**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**1.0**	**0.23**	**0.09**	**0.10**	**0.24**	**0.31**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	**0.1**	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	**2.7**	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	**5.7**	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	**4.5**	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	**4.2**	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	**2.4**	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	**3.7**	<0.1
Chrysene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	**5.2**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	**0.6**	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	**17**	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	**0.2**	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	**2.2**	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	**5.5**	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	**16**	<0.1
PAH(total)	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	**70**	<0.1
TPH (C8-C10)	T8	M105	1	mg/kg	<1	<1	<1	<1	<1	<1
TPH (C10-C12)	T206	M105	1	mg/kg	<1	<1	<1	<1	<1	<1
TPH (C12-C16)	T206	M105	1	mg/kg	<1	<1	<1	<1	**1**	<1
TPH (C16-C21)	T206	M105	1	mg/kg	**2**	<1	<1	**1**	**4**	<1
TPH (C21-C35)	T206	M105	1	mg/kg	**1**	<1	<1	<1	**10**	<1
TPH (C35-C40)	T8	M105	1	mg/kg	<1	<1	<1	<1	**2**	**1**
TPH (C8 - C40)	T85	M105	1	mg/kg	**3**	<1	<1	**1**	**17**	**1**

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Soil Analysed as Soil
Grontmij A63 Hull Standard Suite

				SAL Reference	**343384 026**	**343384 033**	**343384 034**
				Customer Sample Reference	**SCPT5B ES 001 0.5**	**BH04 ES 001 1.6**	**BH04 ES 015 5.4**
				Date Sampled	**31-JUL-2013**	**31-JUL-2013**	**31-JUL-2013**
				Top Depth	**0.5**	**1.6**	**5.4**
				Type	**Sandy Soil**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Asbestos ID	T27	AR			N.D.	N.D.	N.D.
pH	T7	AR			**8.2**	**8.1**	**7.9**
Arsenic	T6	M40	2	mg/kg	**19**	**12**	**9**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**27**	**22**	**18**
Chromium (trivalent)	T85	AR	2	mg/kg	**27**	**22**	**18**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1
Copper	T6	M40	1	mg/kg	**87**	**15**	**12**
Lead	T6	M40	1	mg/kg	**1200**	**33**	**12**
Mercury	T6	M40	1	mg/kg	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**22**	**24**	**20**
Selenium	T6	M40	3	mg/kg	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**310**	**59**	**40**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.36**	**0.23**	**0.91**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01
Acenaphthene	T207	M105	0.1	mg/kg	**1.5**	**0.2**	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	**0.2**	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	**3.2**	**0.4**	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**8.6**	**0.5**	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**7.9**	**0.4**	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**11**	**0.5**	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**4.3**	**0.2**	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**5.9**	**0.3**	<0.1
Chrysene	T207	M105	0.1	mg/kg	**8.3**	**0.5**	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	**0.8**	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**25**	**2.1**	<0.1
Fluorene	T207	M105	0.1	mg/kg	**1.1**	**0.2**	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**3.9**	**0.2**	<0.1
Naphthalene	T207	M105	0.1	mg/kg	**0.9**	**0.3**	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**12**	**2.3**	<0.1
Pyrene	T207	M105	0.1	mg/kg	**24**	**1.6**	<0.1
PAH(total)	T207	M105	0.1	mg/kg	**120**	**9.7**	<0.1
TPH (C8-C10)	T8	M105	1	mg/kg	<1	<1	<1
TPH (C10-C12)	T206	M105	1	mg/kg	<1	<1	<1
TPH (C12-C16)	T206	M105	1	mg/kg	**4**	<1	<1
TPH (C16-C21)	T206	M105	1	mg/kg	**27**	**2**	<1
TPH (C21-C35)	T206	M105	1	mg/kg	**90**	**2**	<1
TPH (C35-C40)	T8	M105	1	mg/kg	**21**	**2**	<1
TPH (C8 - C40)	T85	M105	1	mg/kg	**142**	**6**	<1

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Soil Analysed as Soil
Grontmij A63 Hull Standard Suite excluding TPH

				SAL Reference	**343384 002**	**343384 021**
				Customer Sample Reference	**BH40A ES 024 6.7**	**SCPT1 ES 002 1.0**
				Date Sampled	**30-JUL-2013**	**30-JUL-2013**
				Top Depth	**6.7**	**1.0**
				Type	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
pH	T7	AR			**8.3**	**8.0**
Asbestos ID	T27	AR			N.D.	N.D.
Arsenic	T6	M40	2	mg/kg	**12**	**15**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1
Chromium	T6	M40	1	mg/kg	**23**	**34**
Chromium (trivalent)	T85	AR	2	mg/kg	**23**	**34**
Chromium VI	T6	AR	1	mg/kg	<1	<1
Copper	T6	M40	1	mg/kg	**15**	**18**
Lead	T6	M40	1	mg/kg	**29**	**30**
Mercury	T6	M40	1	mg/kg	<1	<1
Nickel	T6	M40	1	mg/kg	**24**	**36**
Selenium	T6	M40	3	mg/kg	<3	<3
Zinc	T6	M40	1	mg/kg	**59**	**78**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.84**	**0.17**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1
PAH(total)	T207	M105	0.1	mg/kg	<0.1	<0.1

SAL Reference: 343384
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Soil Analysed as Soil
Miscellaneous

				SAL Reference	**343384 007**	**343384 021**	**343384 025**
				Customer Sample Reference	**BH40A ES 008 2.7**	**SCPT1 ES 002 1.0**	**BH01 ES 002 1.0**
				Date Sampled	**30-JUL-2013**	**30-JUL-2013**	**30-JUL-2013**
				Top Depth	**2.7**	**1.0**	**1.0**
				Type	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Mass Fraction of organic carbon	T286	M40			**0.022**	**0.010**	**0.016**

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Soil Analysed as Soil
TPH UKCWG

				SAL Reference	**343384 002**	**343384 021**
				Customer Sample Reference	**BH40A ES 024 6.7**	**SCPT1 ES 002 1.0**
				Date Sampled	**30-JUL-2013**	**30-JUL-2013**
				Top Depth	**6.7**	**1.0**
				Type	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Benzene	T209	M105	10	µg/kg	<10	<10
Toluene	T209	M105	10	µg/kg	**16**	<10
EthylBenzene	T209	M105	10	µg/kg	<10	<10
Methyl tert-Butyl Ether	T209	M105	10	µg/kg	<10	<10
O Xylene	T209	M105	10	µg/kg	**14**	**14**
M/P Xylene	T209	M105	10	µg/kg	**14**	**21**
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	<0.100	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	<0.10	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	<0.10	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	<1	<1
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	<2	<2
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	<1	<1
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	<4	<4
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	<1	<1
TPH (Aliphatic) total	T85	M105		mg/kg	N.D.	N.D.
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	<1	<1
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	<1	<1
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	<1	<1
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	<1	<1
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	<1	<1
TPH (Aromatic) total	T85	M105		mg/kg	N.D.	N.D.
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N.D.	N.D.

SAL Reference: 343384
Project Site: A63 Castle St - 13, 14, 15 and 16
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

SAL Reference	**343384 021**
Customer Sample Reference	**SCPT1 ES 002 1.0**
Date Sampled	**30-JUL-2013**
Top Depth	**1.0**
Type	**Clay**

Determinand	Method	Test Sample	LOD	Units	
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	<0.1
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	<0.1
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	<0.1
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1
4-Nitrophenol	T207	M105	0.1	mg/kg	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1
Azobenzene	T207	M105	0.1	mg/kg	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	<0.1
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1
Carbazole	T207	M105	0.1	mg/kg	<0.1
Chrysene	T207	M105	0.1	mg/kg	<0.1
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1
Dibenzofuran	T207	M105	0.1	mg/kg	<0.1
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1
Isophorone	T207	M105	0.1	mg/kg	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1

SAL Reference: 343384
Project Site: A63 Castle St - 13, 14, 15 and 16
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

SAL Reference	**343384 021**
Customer Sample Reference	**SCPT1 ES 002 1.0**
Date Sampled	**30-JUL-2013**
Top Depth	**1.0**
Type	**Clay**

Determinand	Method	Test Sample	LOD	Units	
Phenol	T207	M105	0.1	mg/kg	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1

SAL Reference: 343384
Project Site: A63 Castle St - 13, 14, 15 and 16
Customer Reference: 112630

Soil Analysed as Soil

Volatile Organic Compounds (USEPA 624) (MCERTS)

SAL Reference	**343384 002**	**343384 021**
Customer Sample Reference	**BH40A ES 024 6.7**	**SCPT1 ES 002 1.0**
Date Sampled	**30-JUL-2013**	**30-JUL-2013**
Top Depth	**6.7**	**1.0**
Type	**Clay**	**Clay**

Determinand	Method	Test Sample	LOD	Units		
1,1,1,2-Tetrachloroethane	T209	M105	50	µg/kg	-	<50
1,1,1-Trichloroethane	T209	M105	50	µg/kg	-	<50
1,1,2,2-Tetrachloroethane	T209	M105	50	µg/kg	-	<50
1,1,2-Trichloroethane	T209	M105	50	µg/kg	-	<50
1,1-Dichloroethane	T209	M105	50	µg/kg	-	<50
1,1-Dichloroethylene	T209	M105	50	µg/kg	-	<50
1,1-Dichloropropene	T209	M105	50	µg/kg	-	<50
1,2,3-Trichloropropane	T209	M105	50	µg/kg	-	<50
1,2,4-Trimethylbenzene	T209	M105	50	µg/kg	-	<50
1,2-dibromoethane	T209	M105	50	µg/kg	-	<50
1,2-Dichlorobenzene	T209	M105	50	µg/kg	-	<50
1,2-Dichloroethane	T209	M105	50	µg/kg	-	<50
1,2-Dichloropropane	T209	M105	50	µg/kg	-	<50
1,3,5-Trimethylbenzene	T209	M105	50	µg/kg	-	<50
1,3-Dichlorobenzene	T209	M105	50	µg/kg	-	<50
1,3-Dichloropropane	T209	M105	50	µg/kg	-	<50
1,4-Dichlorobenzene	T209	M105	50	µg/kg	-	<50
2,2-Dichloropropane	T209	M105	50	µg/kg	-	<50
2-Chlorotoluene	T209	M105	50	µg/kg	-	<50
4-Chlorotoluene	T209	M105	50	µg/kg	-	<50
Benzene	T209	M105	10	µg/kg	<10	<10
Bromobenzene	T209	M105	50	µg/kg	-	<50
Bromochloromethane	T209	M105	50	µg/kg	-	<50
Bromodichloromethane	T209	M105	50	µg/kg	-	<50
Bromoform	T209	M105	50	µg/kg	-	<50
Bromomethane	T209	M105	50	µg/kg	-	<50
Carbon tetrachloride	T209	M105	50	µg/kg	-	<50
Chlorobenzene	T209	M105	50	µg/kg	-	<50
Chlorodibromomethane	T209	M105	50	µg/kg	-	<50
Chloroethane	T209	M105	50	µg/kg	-	<50
Chloroform	T209	M105	50	µg/kg	-	<50
Chloromethane	T209	M105	50	µg/kg	-	<50
Cis-1,2-Dichloroethylene	T209	M105	50	µg/kg	-	<50
Cis-1,3-Dichloropropene	T209	M105	50	µg/kg	-	<50
Dibromomethane	T209	M105	50	µg/kg	-	<50
Dichlorodifluoromethane	T209	M105	50	µg/kg	-	<50
Dichloromethane	T209	M105	50	µg/kg	-	<50
EthylBenzene	T209	M105	10	µg/kg	<10	<10
Isopropyl benzene	T209	M105	50	µg/kg	-	<50
M/P Xylene	T209	M105	10	µg/kg	**14**	**21**
n-Propylbenzene	T209	M105	50	µg/kg	-	<50
O Xylene	T209	M105	10	µg/kg	**14**	**14**
p-Isopropyltoluene	T209	M105	50	µg/kg	-	<50
S-Butylbenzene	T209	M105	50	µg/kg	-	<50
Styrene	T209	M105	50	µg/kg	-	<50
T-Butylbenzene	T209	M105	50	µg/kg	-	<50
Tetrachloroethene	T209	M105	50	µg/kg	-	<50
Toluene	T209	M105	10	µg/kg	**16**	<10
Trans-1,2-Dichloroethene	T209	M105	50	µg/kg	-	<50
Trans-1,3-Dichloropropene	T209	M105	50	µg/kg	-	<50
Trichloroethene	T209	M105	50	µg/kg	-	<50
Trichlorofluoromethane	T209	M105	50	µg/kg	-	<50
Vinyl chloride	T209	M105	50	µg/kg	-	<50

SAL Reference: 343384
Project Site: A63 Castle St - 13, 14, 15 and 16
Customer Reference: 112630

Leachate to BS EN 12457-2 (10:1) Analysed as Water
Grontmij A63 Hull Leachate Suite

				SAL Reference	**343384 002**	**343384 017**	**343384 021**
				Customer Sample Reference	**BH40A ES 024 6.7**	**BH03 ES 002 0.7**	**SCPT1 ES 002 1.0**
				Date Sampled	**30-JUL-2013**	**30-JUL-2013**	**30-JUL-2013**
				Top Depth	**6.7**	**0.7**	**1.0**
				Type	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
pH	T7	10:1			**7.9**	**8.1**	**8.0**
As (Dissolved)	T281	10:1	0.2	µg/l	**2.1**	**0.6**	**0.6**
Boron	T6	10:1	0.01	mg/l	**0.27**	**0.04**	**0.07**
Cd (Dissolved)	T281	10:1	0.02	µg/l	**0.03**	<0.02	<0.02
Cr (Dissolved)	T281	10:1	1	µg/l	**1**	<1	<1
Chromium (trivalent)	T85	10:1	0.003	mg/l	<0.003	<0.003	<0.003
Chromium VI	T686	10:1	0.003	mg/l	<0.003	<0.003	<0.003
Cu (Dissolved)	T281	10:1	0.5	µg/l	**3.6**	**2.7**	**2.6**
Pb (Dissolved)	T281	10:1	0.3	µg/l	<0.3	**0.4**	<0.3
Hg (Dissolved)	T281	10:1	0.05	µg/l	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	10:1	1	µg/l	**1**	<1	<1
Se (Dissolved)	T281	10:1	0.5	µg/l	**1.2**	<0.5	**1.1**
Zn (Dissolved)	T281	10:1	2	µg/l	<2	<2	<2
Sulphate	T686	10:1	0.5	mg/l	**78**	**7.4**	**65**
Sulphide	T4	10:1	0.05	mg/l	<0.05	<0.05	<0.05
Sulphur (total)	T65	10:1	0.01	mg/l	**26**	**1.8**	**22**
Total Phenols	T16	10:1	0.5	µg/l	<0.5	**0.8**	**0.7**
Cyanide(Total)	T220	10:1	0.01	mg/l	<0.01	<0.01	<0.01
Cyanide(free)	T220	10:1	0.01	mg/l	<0.01	<0.01	<0.01
Acenaphthene	T149	10:1	0.01	µg/l	**0.05**	**0.05**	**0.02**
Acenaphthylene	T149	10:1	0.01	µg/l	(100) <0.02	**0.02**	(100) <0.02
Anthracene	T149	10:1	0.01	µg/l	**0.05**	(100) <0.02	(100) <0.02
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	**0.03**	(100) <0.02	**0.02**
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	**0.05**	**0.02**	(100) <0.02
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	**0.07**	**0.02**	(100) <0.02
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	**0.05**	**0.02**	(100) <0.02
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	**0.03**	(100) <0.02	(100) <0.02
Chrysene	T149	10:1	0.01	µg/l	**0.05**	(100) <0.02	(100) <0.02
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	**0.02**	(100) <0.02	(100) <0.02
Fluoranthene	T149	10:1	0.01	µg/l	**0.08**	(100) <0.02	**0.02**
Fluorene	T149	10:1	0.01	µg/l	**0.08**	**0.03**	**0.02**
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	**0.02**	(100) <0.02	(100) <0.02
Naphthalene	T149	10:1	0.01	µg/l	**0.10**	**0.11**	**0.03**
Phenanthrene	T149	10:1	0.01	µg/l	**0.21**	**0.05**	**0.03**
Pyrene	T149	10:1	0.01	µg/l	**0.08**	**0.02**	**0.03**
PAH(total)	T149	10:1	0.01	µg/l	**0.90**	**0.32**	**0.17**
PAH (sum of 4)	T85	10:1		µg/l	**0.17**	**0.04**	(100) <0.02
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	**0.10**	**0.02**	(100) <0.02
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	**0.07**	**0.02**	(100) <0.02
TPH (C8-C10) DW	T81	10:1	0.01	mg/l	(100) <0.02	(100) <0.03	<0.01
TPH (C10-C12) DW	T81	10:1	0.01	mg/l	(100) <0.02	(100) <0.03	<0.01
TPH (C12-C16) DW	T81	10:1	0.01	mg/l	(100) <0.02	(100) <0.03	<0.01
TPH (C16-C21) DW	T81	10:1	0.01	mg/l	(100) <0.02	(100) <0.03	<0.01
TPH (C21-C35) DW	T81	10:1	0.01	mg/l	(100) <0.02	(100) <0.03	<0.01
TPH (C35-C40)	T81	10:1	0.01	mg/l	(100) <0.02	(100) <0.03	<0.01
TPH (C8 - C40)	T85	10:1	0.01	mg/l	(100) <0.02	(100) <0.03	<0.01

Index to symbols used in Supplement to 343384-1

Value	Description
AR	As Received
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C

10:1	Leachate to BS EN 12457-2 (10:1)
N.D.	Not Detected
100	LOD determined by sample aliquot used for analysis
W	Analysis was performed at another SAL laboratory
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Supplemental report issued to amend the references for samples 1-14

Method Index

Value	Description
T7	Probe
T209	GC/MS(Head Space)(MCERTS)
T6	ICP/OES
T81	GC/FID (LV)
T686	Discrete Analyser
T8	GC/FID
T207	GC/MS(MCERTS)
T277	Grav (1 Dec) (40 C)
T281	ICP/MS (Filtered)
T546	Colorimetry (CF)
T65	ICP/OES (Preconc.)
T4	Colorimetry
T162	Grav (1 Dec) (105 C)
T16	GC/MS
T220	Colorimetry (SD)
T286	Calc TOC/100
T149	GC/MS (SIR)
T85	Calc
T206	GC/FID (MCERTS)
T27	PLM

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Mass Fraction of organic carbon	T286	M40			N	007,021,025
pH	T7	10:1			U	002,017,021
As (Dissolved)	T281	10:1	0.2	µg/l	U	002,017,021
Boron	T6	10:1	0.01	mg/l	N	002,017,021
Cd (Dissolved)	T281	10:1	0.02	µg/l	U	002,017,021
Cr (Dissolved)	T281	10:1	1	µg/l	U	002,017,021
Chromium (trivalent)	T85	10:1	0.003	mg/l	N	002,017,021
Chromium VI	T686	10:1	0.003	mg/l	U	002,017,021
Cu (Dissolved)	T281	10:1	0.5	µg/l	U	002,017,021
Pb (Dissolved)	T281	10:1	0.3	µg/l	U	002,017,021
Hg (Dissolved)	T281	10:1	0.05	µg/l	U	002,017,021
Ni (Dissolved)	T281	10:1	1	µg/l	U	002,017,021
Se (Dissolved)	T281	10:1	0.5	µg/l	U	002,017,021
Zn (Dissolved)	T281	10:1	2	µg/l	U	002,017,021
Sulphate	T686	10:1	0.5	mg/l	U	002,017,021
Sulphide	T4	10:1	0.05	mg/l	N	002,017,021
Sulphur (total)	T65	10:1	0.01	mg/l	N	002,017,021
Total Phenols	T16	10:1	0.5	µg/l	U	002,017,021
Cyanide(Total)	T220	10:1	0.01	mg/l	WU	002,017,021
Cyanide(free)	T220	10:1	0.01	mg/l	WN	002,017,021
Acenaphthene	T149	10:1	0.01	µg/l	U	002,017,021
Acenaphthylene	T149	10:1	0.01	µg/l	U	002,017,021
Anthracene	T149	10:1	0.01	µg/l	U	002,017,021
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	U	002,017,021
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	U	002,017,021
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	U	002,017,021
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	U	002,017,021
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	U	002,017,021

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Chrysene	T149	10:1	0.01	µg/l	U	002,017,021
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	U	002,017,021
Fluoranthene	T149	10:1	0.01	µg/l	U	002,017,021
Fluorene	T149	10:1	0.01	µg/l	U	002,017,021
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	U	002,017,021
Naphthalene	T149	10:1	0.01	µg/l	U	002,017,021
Phenanthrene	T149	10:1	0.01	µg/l	U	002,017,021
Pyrene	T149	10:1	0.01	µg/l	U	002,017,021
PAH(total)	T149	10:1	0.01	µg/l	U	002,017,021
PAH (sum of 4)	T85	10:1		µg/l	N	002,017,021
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	U	002,017,021
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	N	002,017,021
TPH (C8-C10) DW	T81	10:1	0.01	mg/l	U	002,017,021
TPH (C10-C12) DW	T81	10:1	0.01	mg/l	U	002,017,021
TPH (C12-C16) DW	T81	10:1	0.01	mg/l	U	002,017,021
TPH (C16-C21) DW	T81	10:1	0.01	mg/l	U	002,017,021
TPH (C21-C35) DW	T81	10:1	0.01	mg/l	U	002,017,021
TPH (C35-C40)	T81	10:1	0.01	mg/l	N	002,017,021
TPH (C8 - C40)	T85	10:1	0.01	mg/l	N	002,017,021
TPH (C8-C10)	T8	M105	1	mg/kg	N	007,013,017,019,022,025-026,033-034
TPH (C10-C12)	T206	M105	1	mg/kg	M	007,013,017,019,022,025-026,033-034
TPH (C12-C16)	T206	M105	1	mg/kg	M	007,013,017,019,022,025-026,033-034
TPH (C16-C21)	T206	M105	1	mg/kg	M	007,013,017,019,022,025-026,033-034
TPH (C21-C35)	T206	M105	1	mg/kg	M	007,013,017,019,022,025-026,033-034
TPH (C35-C40)	T8	M105	1	mg/kg	N	007,013,017,019,022,025-026,033-034
TPH (C8 - C40)	T85	M105	1	mg/kg	N	007,013,017,019,022,025-026,033-034
pH	T7	AR			M	002,007,013,017,019,021-022,025-026,033-034
Asbestos ID	T27	AR			SU	002,007,013,017,019,021-022,025-026,033-034
Arsenic	T6	M40	2	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Boron (water-soluble)	T6	AR	1	mg/kg	N	002,007,013,017,019,021-022,025-026,033-034
Cadmium	T6	M40	1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Chromium	T6	M40	1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Chromium (trivalent)	T85	AR	2	mg/kg	N	002,007,013,017,019,021-022,025-026,033-034
Chromium VI	T6	AR	1	mg/kg	N	002,007,013,017,019,021-022,025-026,033-034
Copper	T6	M40	1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Lead	T6	M40	1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Mercury	T6	M40	1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Nickel	T6	M40	1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Selenium	T6	M40	3	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Zinc	T6	M40	1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Cyanide(Total)	T546	AR	1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Cyanide(free)	T546	AR	1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
SO4(Total)	T6	M40	0.01	%	N	002,007,013,017,019,021-022,025-026,033-034
Total Phenols	T149	AR	0.01	mg/kg	U	002,007,013,017,019,021-022,025-026,033-034
Acenaphthene	T207	M105	0.1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Acenaphthylene	T207	M105	0.1	mg/kg	U	002,007,013,017,019,021-022,025-026,033-034
Anthracene	T207	M105	0.1	mg/kg	U	002,007,013,017,019,021-022,025-026,033-034
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Chrysene	T207	M105	0.1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Fluoranthene	T207	M105	0.1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Fluorene	T207	M105	0.1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Naphthalene	T207	M105	0.1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Phenanthrene	T207	M105	0.1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
Pyrene	T207	M105	0.1	mg/kg	M	002,007,013,017,019,021-022,025-026,033-034
PAH(total)	T207	M105	0.1	mg/kg	U	002,007,013,017,019,021-022,025-026,033-034
Moisture	T277	AR	0.1	%	N	002,007,013,017,019,021-022,025-026,033-034
Moisture @ 105 C	T162	AR	0.1	%	N	002,007,013,017,019,021-022,025-026,033-034
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	021
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	021
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	021
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	021
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	021
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	021
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	021

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	021
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	U	021
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	021
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	021
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	021
2-Chlorophenol	T207	M105	0.1	mg/kg	M	021
2-methyl phenol	T207	M105	0.1	mg/kg	M	021
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	021
2-Nitroaniline	T207	M105	0.1	mg/kg	M	021
2-Nitrophenol	T207	M105	0.1	mg/kg	U	021
3-Nitroaniline	T207	M105	0.1	mg/kg	U	021
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	021
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	021
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	021
4-Chloroaniline	T207	M105	0.1	mg/kg	U	021
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	021
4-Nitroaniline	T207	M105	0.1	mg/kg	U	021
4-Nitrophenol	T207	M105	0.1	mg/kg	U	021
Azobenzene	T207	M105	0.1	mg/kg	M	021
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	021
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	021
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	021
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	021
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	021
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	021
Carbazole	T207	M105	0.1	mg/kg	U	021
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	021
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	021
Dibenzofuran	T207	M105	0.1	mg/kg	M	021
Diethyl phthalate	T207	M105	0.1	mg/kg	U	021
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	021
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	021
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	021
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	021
Hexachloroethane	T207	M105	0.1	mg/kg	U	021
Isophorone	T207	M105	0.1	mg/kg	U	021
Nitrobenzene	T207	M105	0.1	mg/kg	M	021
Pentachlorophenol	T207	M105	0.1	mg/kg	U	021
Phenol	T207	M105	0.1	mg/kg	M	021
Toluene	T209	M105	10	µg/kg	M	002,021
Methyl tert-Butyl Ether	T209	M105	10	µg/kg	M	002,021
M/P Xylene	T209	M105	10	µg/kg	M	002,021
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	N	002,021
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	N	002,021
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	N	002,021
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	M	002,021
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	M	002,021
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	M	002,021
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	M	002,021
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	N	002,021
TPH (Aliphatic) total	T85	M105		mg/kg	N	002,021
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	N	002,021
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	N	002,021
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	N	002,021
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	M	002,021
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	M	002,021
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	M	002,021
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	M	002,021
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	N	002,021
TPH (Aromatic) total	T85	M105		mg/kg	N	002,021
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N	002,021
1,1,1,2-Tetrachloroethane	T209	M105	50	µg/kg	M	021
1,1,1-Trichloroethane	T209	M105	50	µg/kg	M	021
1,1,2,2-Tetrachloroethane	T209	M105	50	µg/kg	U	021
1,1,2-Trichloroethane	T209	M105	50	µg/kg	M	021
1,1-Dichloroethane	T209	M105	50	µg/kg	M	021
1,1-Dichloroethylene	T209	M105	50	µg/kg	M	021
1,1-Dichloropropene	T209	M105	50	µg/kg	M	021
1,2,3-Trichloropropane	T209	M105	50	µg/kg	U	021
1,2,4-Trimethylbenzene	T209	M105	50	µg/kg	M	021

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
1,2-dibromoethane	T209	M105	50	µg/kg	M	021
1,2-Dichlorobenzene	T209	M105	50	µg/kg	M	021
1,2-Dichloroethane	T209	M105	50	µg/kg	M	021
1,2-Dichloropropane	T209	M105	50	µg/kg	M	021
1,3,5-Trimethylbenzene	T209	M105	50	µg/kg	M	021
1,3-Dichlorobenzene	T209	M105	50	µg/kg	M	021
1,3-Dichloropropane	T209	M105	50	µg/kg	M	021
1,4-Dichlorobenzene	T209	M105	50	µg/kg	M	021
2,2-Dichloropropane	T209	M105	50	µg/kg	U	021
2-Chlorotoluene	T209	M105	50	µg/kg	U	021
4-Chlorotoluene	T209	M105	50	µg/kg	U	021
Benzene	T209	M105	10	µg/kg	M	002,021
Bromobenzene	T209	M105	50	µg/kg	M	021
Bromochloromethane	T209	M105	50	µg/kg	M	021
Bromodichloromethane	T209	M105	50	µg/kg	M	021
Bromoform	T209	M105	50	µg/kg	M	021
Bromomethane	T209	M105	50	µg/kg	U	021
Carbon tetrachloride	T209	M105	50	µg/kg	M	021
Chlorobenzene	T209	M105	50	µg/kg	M	021
Chlorodibromomethane	T209	M105	50	µg/kg	M	021
Chloroethane	T209	M105	50	µg/kg	M	021
Chloroform	T209	M105	50	µg/kg	M	021
Chloromethane	T209	M105	50	µg/kg	U	021
Cis-1,2-Dichloroethylene	T209	M105	50	µg/kg	M	021
Cis-1,3-Dichloropropene	T209	M105	50	µg/kg	M	021
Dibromomethane	T209	M105	50	µg/kg	M	021
Dichlorodifluoromethane	T209	M105	50	µg/kg	M	021
Dichloromethane	T209	M105	50	µg/kg	U	021
EthylBenzene	T209	M105	10	µg/kg	M	002,021
Isopropyl benzene	T209	M105	50	µg/kg	M	021
n-Propylbenzene	T209	M105	50	µg/kg	M	021
O Xylene	T209	M105	10	µg/kg	M	002,021
p-Isopropyltoluene	T209	M105	50	µg/kg	M	021
S-Butylbenzene	T209	M105	50	µg/kg	M	021
Styrene	T209	M105	50	µg/kg	U	021
T-Butylbenzene	T209	M105	50	µg/kg	M	021
Tetrachloroethene	T209	M105	50	µg/kg	M	021
Trans-1,2-Dichloroethene	T209	M105	50	µg/kg	M	021
Trans-1,3-Dichloropropene	T209	M105	50	µg/kg	M	021
Trichloroethene	T209	M105	50	µg/kg	M	021
Trichlorofluoromethane	T209	M105	50	µg/kg	M	021
Vinyl chloride	T209	M105	50	µg/kg	M	021

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 344267-1

Date of Report: 22-Aug-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 17, 18, 19, 20, 21, 22 and 24
Date Job Received at SAL: 06-Aug-2013
Date Analysis Started: 12-Aug-2013
Date Analysis Completed: 22-Aug-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
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Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked and authorised by :
Mr Ross Walker
Customer Services Manager (Land)

Issued by :
Mr Ross Walker
Customer Services Manager (Land)

[redacted]

SAL Reference: 344267
Project Site: A63 Castle St - 17, 18, 19, 20, 21, 22 and 24
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**344267 006**	**344267 009**	**344267 012**	**344267 015**	**344267 022**	**344267 025**	**344267 029**
				Customer Sample Reference	**BH40A ES040 10.7**	**BH07 ES009 2.1**	**BH07 ES003 0.5**	**BH07 ES026 8.5**	**BH3 ES014 4.5**	**BH3 ES002 1.5**	**BH38 ES006 2.0**
				Top Depth	**10.7**	**2.1**	**0.5**	**8.5**	**4.5**	**1.5**	**2.0**
				Date Sampled	**01-AUG-2013**	**02-AUG-2013**	**02-AUG-2013**	**02-AUG-2013**	**02-AUG-2013**	**02-AUG-2013**	**02-AUG-2013**
				Type	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Moisture @ 105 C	T162	AR	0.1	%	**24**	**26**	**17**	**30**	**27**	**26**	**23**
Moisture	T277	AR	0.1	%	**21**	**25**	**17**	**31**	**29**	**25**	**22**
Asbestos ID	T27	AR			-	N.D.	N.D.	-	-	N.D.	N.D.
pH	T7	AR			**8.7**	**8.3**	**8.5**	**8.4**	**8.0**	**8.3**	**8.1**
Mass Fraction of organic carbon	T286	M40			-	-	**0.014**	**0.0086**	-	-	**0.010**
Arsenic	T6	M40	2	mg/kg	**7**	**12**	**11**	**9**	**9**	**18**	**8**
Boron (water-soluble)	T6	AR	1	mg/kg	**7**	<1	<1	**2**	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**18**	**25**	**33**	**20**	**15**	**54**	**18**
Chromium (trivalent)	T85	AR	2	mg/kg	**18**	**25**	**33**	**20**	**15**	**54**	**18**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**12**	**13**	**30**	**12**	**9**	**79**	**10**
Lead	T6	M40	1	mg/kg	**12**	**15**	**64**	**12**	**10**	**40**	**12**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**19**	**24**	**30**	**20**	**15**	**45**	**18**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**49**	**68**	**120**	**52**	**40**	**120**	**47**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.07**	**0.06**	**0.08**	**0.55**	**0.99**	**0.12**	**0.50**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	**0.02**	<0.01	<0.01
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
PAH(total)	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH (C8-C10)	T8	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
TPH (C10-C12)	T206	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
TPH (C12-C16)	T206	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
TPH (C16-C21)	T206	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
TPH (C21-C35)	T206	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
TPH (C35-C40)	T8	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
TPH (C8 - C40)	T85	M105	1	mg/kg	<1	<1	<1	<1	<1	<1	<1

SAL Reference: 344267
Project Site: A63 Castle St - 17, 18, 19, 20, 21, 22 and 24
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**344267 039**	**344267 045**	**344267 057**	**344267 060**	**344267 063**	**344267 064**
				Customer Sample Reference	**BH38 ES033 8.5**	**BH38 ES002 0.5**	**BH01 ES004 2.0**	**BH01 ES021 7.0**	**SCPT24 ES002 1.0**	**SCPT24 ES001 0.5**
				Top Depth	**8.5**	**0.5**	**2.0**	**7.0**	**1.0**	**0.5**
				Date Sampled	**02-AUG-2013**	**02-AUG-2013**	**06-AUG-2013**	**06-AUG-2013**	**06-AUG-2013**	**06-AUG-2013**
				Type	**Clay**	**Sandy Soil**	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
Moisture @ 105 C	T162	AR	0.1	%	**24**	**14**	**24**	**53**	**18**	**13**
Moisture	T277	AR	0.1	%	**25**	**13**	**25**	**54**	**16**	**15**
Asbestos ID	T27	AR			N.D.	N.D.	N.D.	-	N.D.	N.D.
pH	T7	AR			**8.2**	**8.6**	**8.5**	**8.1**	**7.7**	**8.0**
Mass Fraction of organic carbon	T286	M40			-	-	-	**0.15**	-	**0.11**
Arsenic	T6	M40	2	mg/kg	**10**	**20**	**21**	**19**	**14**	**17**
Boron (water-soluble)	T6	AR	1	mg/kg	**1**	<1	<1	**7**	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**19**	**16**	**26**	**28**	**21**	**31**
Chromium (trivalent)	T85	AR	2	mg/kg	**19**	**16**	**26**	**28**	**21**	**31**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**12**	**23**	**19**	**17**	**39**	**68**
Lead	T6	M40	1	mg/kg	**26**	**180**	**34**	**23**	**120**	**170**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**19**	**17**	**28**	**36**	**22**	**29**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**69**	**110**	**80**	**58**	**71**	**180**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.51**	**0.16**	**0.13**	**16**	**0.11**	**0.24**
Total Phenols	T149	AR	0.01	mg/kg	**0.03**	**0.04**	<0.01	<0.01	<0.01	**0.16**
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1	**2.5**
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.8**	<0.1	<0.1	**0.1**	**17**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	**1.5**	<0.1	<0.1	**0.5**	**41**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**1.3**	<0.1	<0.1	**0.6**	**32**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**1.1**	<0.1	<0.1	**0.5**	**36**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.6**	<0.1	<0.1	**0.3**	**15**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**1.5**	<0.1	<0.1	**0.6**	**28**
Chrysene	T207	M105	0.1	mg/kg	<0.1	**1.5**	<0.1	<0.1	**0.5**	**39**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1	**4.3**
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**3.9**	<0.1	<0.1	**1.2**	**80**
Fluorene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1	**2.9**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.5**	<0.1	<0.1	**0.3**	**15**
Naphthalene	T207	M105	0.1	mg/kg	<0.1	**0.5**	<0.1	<0.1	<0.1	**0.5**
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**2.4**	<0.1	<0.1	**0.5**	**47**
Pyrene	T207	M105	0.1	mg/kg	<0.1	**3.6**	<0.1	<0.1	**1.1**	**70**
PAH(total)	T207	M105	0.1	mg/kg	<0.1	**20**	<0.1	<0.1	**6.2**	**430**
TPH (C8-C10)	T8	M105	1	mg/kg	<1	<1	<1	<1	<1	(9) <10
TPH (C10-C12)	T206	M105	1	mg/kg	<1	<1	<1	<1	<1	(9) <10
TPH (C12-C16)	T206	M105	1	mg/kg	<1	**1**	<1	<1	<1	**36**
TPH (C16-C21)	T206	M105	1	mg/kg	**1**	**12**	**3**	<1	**2**	**480**
TPH (C21-C35)	T206	M105	1	mg/kg	**4**	**35**	**24**	**25**	**6**	**1000**
TPH (C35-C40)	T8	M105	1	mg/kg	<1	**3**	**4**	<1	<1	**110**
TPH (C8 - C40)	T85	M105	1	mg/kg	**5**	**5**	**31**	**25**	**8**	**1626**
PCB BZ#101	T1	M105	0.00005	mg/kg	-	**0.00020**	-	-	-	**0.00070**
PCB BZ#118	T1	M105	0.00005	mg/kg	-	**0.00009**	-	-	-	(9) <0.00050
PCB BZ#138	T1	M105	0.00005	mg/kg	-	**0.00074**	-	-	-	**0.0013**
PCB BZ#153	T1	M105	0.00005	mg/kg	-	**0.00058**	-	-	-	**0.0015**
PCB BZ#180	T1	M105	0.00005	mg/kg	-	**0.00083**	-	-	-	**0.0025**
PCB BZ#28	T1	M105	0.00005	mg/kg	-	<0.00005	-	-	-	(9) <0.00050
PCB BZ#52	T1	M105	0.00005	mg/kg	-	<0.00005	-	-	-	(9) <0.00050

SAL Reference: 344267
Project Site: A63 Castle St - 17, 18, 19, 20, 21, 22 and 24
Customer Reference: 112630

Soil Analysed as Soil

Volatile Organic Compounds (USEPA 624) (MCERTS)

				SAL Reference	**344267 045**	**344267 064**
				Customer Sample Reference	**BH38 ES002 0.5**	**SCPT24 ES001 0.5**
				Top Depth	**0.5**	**0.5**
				Date Sampled	**02-AUG-2013**	**06-AUG-2013**
				Type	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,1-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	<0.050
1,1-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
1,2-dibromoethane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
1,2-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
1,3-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
2,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050
2-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	<0.050
4-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	<0.050
Benzene	T209	M105	0.010	mg/kg	<0.010	<0.010
Bromobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
Bromochloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Bromodichloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Bromoform	T209	M105	0.050	mg/kg	<0.050	<0.050
Bromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Carbon tetrachloride	T209	M105	0.050	mg/kg	<0.050	<0.050
Chlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
Chlorodibromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Chloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Chloroform	T209	M105	0.050	mg/kg	<0.050	<0.050
Chloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	<0.050
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050
Dibromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Dichloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	<0.010
Isopropyl benzene	T209	M105	0.050	mg/kg	<0.050	<0.050
M/P Xylene	T209	M105	0.010	mg/kg	<0.010	<0.010
n-Propylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
O Xylene	T209	M105	0.010	mg/kg	<0.010	<0.010
p-Isopropyltoluene	T209	M105	0.050	mg/kg	<0.050	<0.050
S-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
Styrene	T209	M105	0.050	mg/kg	<0.050	<0.050
T-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
Tetrachloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050
Toluene	T209	M105	0.010	mg/kg	<0.010	<0.010
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050
Trichloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050
Trichlorofluoromethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Vinyl chloride	T209	M105	0.050	mg/kg	<0.050	<0.050

SAL Reference: 344267
Project Site: A63 Castle St - 17, 18, 19, 20, 21, 22 and 24
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

				SAL Reference	**344267 045**	**344267 064**
				Customer Sample Reference	**BH38 ES002 0.5**	**SCPT24 ES001 0.5**
				Top Depth	**0.5**	**0.5**
				Date Sampled	**02-AUG-2013**	**06-AUG-2013**
				Type	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	**0.2**	**0.4**
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1
4-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	**0.2**	**2.5**
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	**0.8**	**17**
Azobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**1.5**	**41**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**1.3**	**32**
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	**2.5**	**63**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**0.6**	**15**
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	**1.2**	**2.4**
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1
Carbazole	T207	M105	0.1	mg/kg	**0.5**	<0.1
Chrysene	T207	M105	0.1	mg/kg	**1.5**	**39**
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	**0.2**
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	**0.2**	**4.3**
Dibenzofuran	T207	M105	0.1	mg/kg	**0.2**	**1.9**
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**3.9**	**80**
Fluorene	T207	M105	0.1	mg/kg	**0.2**	**2.9**
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**0.5**	**15**
Isophorone	T207	M105	0.1	mg/kg	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	**0.5**	**0.5**
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**2.4**	**47**

SAL Reference: 344267
Project Site: A63 Castle St - 17, 18, 19, 20, 21, 22 and 24
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

SAL Reference	**344267 045**	**344267 064**
Customer Sample Reference	**BH38 ES002 0.5**	**SCPT24 ES001 0.5**
Top Depth	**0.5**	**0.5**
Date Sampled	**02-AUG-2013**	**06-AUG-2013**
Type	**Sandy Soil**	**Sandy Soil**

Determinand	Method	Test Sample	LOD	Units		
Phenol	T207	M105	0.1	mg/kg	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	**3.6**	**70**

SAL Reference: 344267
Project Site: A63 Castle St - 17, 18, 19, 20, 21, 22 and 24
Customer Reference: 112630

Leachate to BS EN 12457-2 (10:1) Analysed as Water
Grontmij A63 Hull Leachate Suite

				SAL Reference	**344267 012**	**344267 022**	**344267 025**	**344267 029**	**344267 039**	**344267 064**
				Customer Sample Reference	**BH07 ES003 0.5**	**BH3 ES014 4.5**	**BH3 ES002 1.5**	**BH38 ES006 2.0**	**BH38 ES033 8.5**	**SCPT24 ES001 0.5**
				Top Depth	**0.5**	**4.5**	**1.5**	**2.0**	**8.5**	**0.5**
				Date Sampled	**02-AUG-2013**	**02-AUG-2013**	**02-AUG-2013**	**02-AUG-2013**	**02-AUG-2013**	**06-AUG-2013**
				Type	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
pH	T7	10:1			**8.3**	**7.7**	**8.0**	**8.1**	**7.9**	**7.6**
As (Dissolved)	T281	10:1	0.2	µg/l	**12**	**3.9**	**1.2**	**2.6**	**7.8**	**7.0**
Boron	T6	10:1	10	µg/l	**13**	**240**	**28**	**180**	**310**	**11**
Cd (Dissolved)	T281	10:1	0.02	µg/l	<0.02	**0.05**	**0.03**	**0.07**	**0.04**	<0.02
Cr (Dissolved)	T281	10:1	1	µg/l	**2**	**4**	**3**	**3**	**5**	**4**
Chromium (trivalent)	T85	10:1	3	µg/l	<3	**4**	**3**	**3**	**5**	**4**
Chromium VI	T686	10:1	3	µg/l	<3	<3	<3	<3	<3	<3
Cu (Dissolved)	T281	10:1	0.5	µg/l	**5.8**	**1.1**	**1.8**	**1.0**	**2.6**	**13**
Pb (Dissolved)	T281	10:1	0.3	µg/l	**0.6**	<0.3	<0.3	<0.3	**0.9**	**1.7**
Hg (Dissolved)	T281	10:1	0.05	µg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	10:1	1	µg/l	**1**	**1**	<1	**2**	**2**	**2**
Se (Dissolved)	T281	10:1	0.5	µg/l	**0.8**	**1.3**	**1.5**	**1.2**	**2.5**	**1.2**
Zn (Dissolved)	T281	10:1	2	µg/l	**4**	**3**	**2**	<2	**3**	**5**
Sulphate	T686	10:1	0.5	mg/l	**0.7**	**72**	**9.8**	**39**	**19**	**9.7**
Sulphide	T4	10:1	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	10:1	0.01	mg/l	**0.65**	**26**	**3.6**	**13**	**6.1**	**4.0**
Total Phenols	T16	10:1	0.5	µg/l	<0.5	(100) <0.6	<0.5	(100) <0.6	**2.2**	<0.5
Cyanide(Total)	T220	10:1	10	µg/l	<10	<10	<10	<10	<10	<10
Cyanide(free)	T220	10:1	10	µg/l	<10	<10	<10	<10	<10	<10
Acenaphthene	T149	10:1	0.01	µg/l	**0.02**	**0.02**	**0.03**	**0.02**	**0.07**	**0.04**
Acenaphthylene	T149	10:1	0.01	µg/l	**0.08**	**0.14**	**0.20**	**0.01**	**0.07**	**0.07**
Anthracene	T149	10:1	0.01	µg/l	**0.02**	**0.02**	<0.01	(100) <0.02	**0.05**	**0.68**
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	<0.01	(100) <0.02	<0.01	(100) <0.02	**0.06**	**1.6**
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	<0.01	(100) <0.02	<0.01	(100) <0.02	**0.07**	**2.5**
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	**0.01**	(100) <0.02	<0.01	(100) <0.02	**0.06**	**2.2**
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	**0.01**	(100) <0.02	<0.01	(100) <0.02	**0.04**	**1.6**
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	<0.01	(100) <0.02	<0.01	(100) <0.02	**0.05**	**1.9**
Chrysene	T149	10:1	0.01	µg/l	<0.01	(100) <0.02	<0.01	(100) <0.02	**0.05**	**1.3**
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	**0.01**	(100) <0.02	<0.01	(100) <0.02	**0.04**	**0.41**
Fluoranthene	T149	10:1	0.01	µg/l	**0.02**	**0.04**	<0.01	(100) <0.02	**0.06**	**8.0**
Fluorene	T149	10:1	0.01	µg/l	**0.05**	**0.04**	**0.06**	**0.02**	**0.10**	**0.04**
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	<0.01	(100) <0.02	<0.01	(100) <0.02	**0.02**	**1.6**
Naphthalene	T149	10:1	0.01	µg/l	**0.04**	**0.02**	**0.03**	**0.05**	**0.13**	**0.06**
Phenanthrene	T149	10:1	0.01	µg/l	**0.05**	**0.06**	**0.01**	**0.02**	**0.15**	**1.2**
Pyrene	T149	10:1	0.01	µg/l	**0.01**	**0.03**	<0.01	(100) <0.02	**0.08**	**7.4**
PAH(total)	T149	10:1	0.01	µg/l	**0.32**	**0.37**	**0.33**	**0.12**	**1.1**	**31**
PAH (sum of 4)	T85	10:1		µg/l	**0.02**	(100) <0.02	N.D.	(100) <0.02	**0.17**	**7.3**
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	**0.01**	(100) <0.02	<0.01	(100) <0.02	**0.11**	**4.1**
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	**0.01**	(100) <0.02	N.D.	(100) <0.02	**0.06**	**3.2**
TPH (C8-C10) DW	T81	10:1	10	µg/l	(100) <50	(100) <20	(100) <40	(100) <20	(100) <40	(100) <30
TPH (C10-C12) DW	T81	10:1	10	µg/l	(100) <50	(100) <20	(100) <40	(100) <20	(100) <40	(100) <30
TPH (C12-C16) DW	T81	10:1	10	µg/l	(100) <50	(100) <20	(100) <40	(100) <20	(100) <40	(100) <30
TPH (C16-C21) DW	T81	10:1	10	µg/l	(100) <50	(100) <20	(100) <40	(100) <20	(100) <40	**86**
TPH (C21-C35) DW	T81	10:1	10	µg/l	(100) <50	(100) <20	(100) <40	(100) <20	(100) <40	**79**
TPH (C35-C40)	T81	10:1	10	µg/l	(100) <50	(100) <20	(100) <40	(100) <20	(100) <40	(100) <30
TPH (C8 - C40)	T85	10:1	10	µg/l	(100) <50	(100) <20	(100) <40	(100) <20	(100) <40	**170**

Index to symbols used in 344267-1

Value	Description
AR	As Received
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
10:1	Leachate to BS EN 12457-2 (10:1)

M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
N.D.	Not Detected
9	LOD raised due to dilution of sample
100	LOD determined by sample aliquot used for analysis
W	Analysis was performed at another SAL laboratory
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T546	Colorimetry (CF)
T206	GC/FID (MCERTS)
T6	ICP/OES
T7	Probe
T1	GC/MS (HR)
T286	Calc TOC/100
T686	Discrete Analyser
T207	GC/MS(MCERTS)
T220	Colorimetry (SD)
T65	ICP/OES (Preconc.)
T4	Colorimetry
T8	GC/FID
T81	GC/FID (LV)
T16	GC/MS
T27	PLM
T85	Calc
T209	GC/MS(Head Space)(MCERTS)
T277	Grav (1 Dec) (40 C)
T149	GC/MS (SIR)
T162	Grav (1 Dec) (105 C)
T281	ICP/MS (Filtered)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture @ 105 C	T162	AR	0.1	%	N	006,009,012,015,022,025,029,039,045,057,060,063-064
Moisture	T277	AR	0.1	%	N	006,009,012,015,022,025,029,039,045,057,060,063-064
Asbestos ID	T27	AR			SU	009,012,025,029,039,045,057,063-064
pH	T7	AR			M	006,009,012,015,022,025,029,039,045,057,060,063-064
Mass Fraction of organic carbon	T286	M40			N	012,015,029,060,064
Arsenic	T6	M40	2	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
Boron (water-soluble)	T6	AR	1	mg/kg	N	006,009,012,015,022,025,029,039,045,057,060,063-064
Cadmium	T6	M40	1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
Chromium	T6	M40	1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
Chromium (trivalent)	T85	AR	2	mg/kg	N	006,009,012,015,022,025,029,039,045,057,060,063-064
Chromium VI	T6	AR	1	mg/kg	N	006,009,012,015,022,025,029,039,045,057,060,063-064
Copper	T6	M40	1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
Lead	T6	M40	1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
Mercury	T6	M40	1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
Nickel	T6	M40	1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
Selenium	T6	M40	3	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
Zinc	T6	M40	1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
Cyanide(Total)	T546	AR	1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
Cyanide(free)	T546	AR	1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
SO4(Total)	T6	M40	0.01	%	N	006,009,012,015,022,025,029,039,045,057,060,063-064
Total Phenols	T149	AR	0.01	mg/kg	U	006,009,012,015,022,025,029,039,045,057,060,063-064
Acenaphthene	T207	M105	0.1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
Acenaphthylene	T207	M105	0.1	mg/kg	U	006,009,012,015,022,025,029,039,045,057,060,063-064
Anthracene	T207	M105	0.1	mg/kg	U	006,009,012,015,022,025,029,039,045,057,060,063-064
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
Chrysene	T207	M105	0.1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
Fluoranthene	T207	M105	0.1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
Fluorene	T207	M105	0.1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
Naphthalene	T207	M105	0.1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
Phenanthrene	T207	M105	0.1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
Pyrene	T207	M105	0.1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
PAH(total)	T207	M105	0.1	mg/kg	U	006,009,012,015,022,025,029,039,045,057,060,063-064
TPH (C8-C10)	T8	M105	1	mg/kg	N	006,009,012,015,022,025,029,039,045,057,060,063-064
TPH (C10-C12)	T206	M105	1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
TPH (C12-C16)	T206	M105	1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
TPH (C16-C21)	T206	M105	1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
TPH (C21-C35)	T206	M105	1	mg/kg	M	006,009,012,015,022,025,029,039,045,057,060,063-064
TPH (C35-C40)	T8	M105	1	mg/kg	N	006,009,012,015,022,025,029,039,045,057,060,063-064
TPH (C8 - C40)	T85	M105	1	mg/kg	N	006,009,012,015,022,025,029,039,045,057,060,063-064
PCB BZ#101	T1	M105	0.00005	mg/kg	M	045,064
PCB BZ#118	T1	M105	0.00005	mg/kg	M	045,064
PCB BZ#138	T1	M105	0.00005	mg/kg	M	045,064
PCB BZ#153	T1	M105	0.00005	mg/kg	M	045,064
PCB BZ#180	T1	M105	0.00005	mg/kg	M	045,064
PCB BZ#28	T1	M105	0.00005	mg/kg	M	045,064
PCB BZ#52	T1	M105	0.00005	mg/kg	M	045,064
pH	T7	10:1			U	012,022,025,029,039,064
As (Dissolved)	T281	10:1	0.2	µg/l	U	012,022,025,029,039,064
Boron	T6	10:1	10	µg/l	N	012,022,025,029,039,064
Cd (Dissolved)	T281	10:1	0.02	µg/l	U	012,022,025,029,039,064
Cr (Dissolved)	T281	10:1	1	µg/l	U	012,022,025,029,039,064
Chromium (trivalent)	T85	10:1	3	µg/l	N	012,022,025,029,039,064
Chromium VI	T686	10:1	3	µg/l	U	012,022,025,029,039,064
Cu (Dissolved)	T281	10:1	0.5	µg/l	U	012,022,025,029,039,064
Pb (Dissolved)	T281	10:1	0.3	µg/l	U	012,022,025,029,039,064
Hg (Dissolved)	T281	10:1	0.05	µg/l	U	012,022,025,029,039,064
Ni (Dissolved)	T281	10:1	1	µg/l	U	012,022,025,029,039,064
Se (Dissolved)	T281	10:1	0.5	µg/l	U	012,022,025,029,039,064
Zn (Dissolved)	T281	10:1	2	µg/l	U	012,022,025,029,039,064
Sulphate	T686	10:1	0.5	mg/l	U	012,022,025,029,039,064
Sulphide	T4	10:1	0.05	mg/l	N	012,022,025,029,039,064
Sulphur (total)	T65	10:1	0.01	mg/l	N	012,022,025,029,039,064
Total Phenols	T16	10:1	0.5	µg/l	U	012,022,025,029,039,064
Cyanide(Total)	T220	10:1	10	µg/l	WU	012,022,025,029,039,064
Cyanide(free)	T220	10:1	10	µg/l	WN	012,022,025,029,039,064
Acenaphthene	T149	10:1	0.01	µg/l	U	012,022,025,029,039,064
Acenaphthylene	T149	10:1	0.01	µg/l	U	012,022,025,029,039,064
Anthracene	T149	10:1	0.01	µg/l	U	012,022,025,029,039,064
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	U	012,022,025,029,039,064
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	U	012,022,025,029,039,064
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	U	012,022,025,029,039,064
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	U	012,022,025,029,039,064
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	U	012,022,025,029,039,064
Chrysene	T149	10:1	0.01	µg/l	U	012,022,025,029,039,064
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	U	012,022,025,029,039,064
Fluoranthene	T149	10:1	0.01	µg/l	U	012,022,025,029,039,064
Fluorene	T149	10:1	0.01	µg/l	U	012,022,025,029,039,064
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	U	012,022,025,029,039,064
Naphthalene	T149	10:1	0.01	µg/l	U	012,022,025,029,039,064
Phenanthrene	T149	10:1	0.01	µg/l	U	012,022,025,029,039,064
Pyrene	T149	10:1	0.01	µg/l	U	012,022,025,029,039,064
PAH(total)	T149	10:1	0.01	µg/l	U	012,022,025,029,039,064
PAH (sum of 4)	T85	10:1		µg/l	N	012,022,025,029,039,064
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	U	012,022,025,029,039,064
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	N	012,022,025,029,039,064
TPH (C8-C10) DW	T81	10:1	10	µg/l	U	012,022,025,029,039,064
TPH (C10-C12) DW	T81	10:1	10	µg/l	U	012,022,025,029,039,064
TPH (C12-C16) DW	T81	10:1	10	µg/l	U	012,022,025,029,039,064
TPH (C16-C21) DW	T81	10:1	10	µg/l	U	012,022,025,029,039,064
TPH (C21-C35) DW	T81	10:1	10	µg/l	U	012,022,025,029,039,064
TPH (C35-C40)	T81	10:1	10	µg/l	N	012,022,025,029,039,064
TPH (C8 - C40)	T85	10:1	10	µg/l	N	012,022,025,029,039,064
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	045,064
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	045,064

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	045,064
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	045,064
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	045,064
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	045,064
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	045,064
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	045,064
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	U	045,064
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	045,064
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	045,064
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	045,064
2-Chlorophenol	T207	M105	0.1	mg/kg	M	045,064
2-methyl phenol	T207	M105	0.1	mg/kg	M	045,064
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	045,064
2-Nitroaniline	T207	M105	0.1	mg/kg	M	045,064
2-Nitrophenol	T207	M105	0.1	mg/kg	U	045,064
3-Nitroaniline	T207	M105	0.1	mg/kg	U	045,064
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	045,064
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	045,064
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	045,064
4-Chloroaniline	T207	M105	0.1	mg/kg	U	045,064
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	045,064
4-Nitroaniline	T207	M105	0.1	mg/kg	U	045,064
4-Nitrophenol	T207	M105	0.1	mg/kg	U	045,064
Azobenzene	T207	M105	0.1	mg/kg	M	045,064
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	045,064
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	045,064
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	045,064
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	045,064
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	045,064
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	045,064
Carbazole	T207	M105	0.1	mg/kg	U	045,064
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	045,064
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	045,064
Dibenzofuran	T207	M105	0.1	mg/kg	M	045,064
Diethyl phthalate	T207	M105	0.1	mg/kg	U	045,064
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	045,064
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	045,064
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	045,064
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	045,064
Hexachloroethane	T207	M105	0.1	mg/kg	U	045,064
Isophorone	T207	M105	0.1	mg/kg	U	045,064
Nitrobenzene	T207	M105	0.1	mg/kg	M	045,064
Pentachlorophenol	T207	M105	0.1	mg/kg	U	045,064
Phenol	T207	M105	0.1	mg/kg	M	045,064
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	M	045,064
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	M	045,064
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	U	045,064
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	M	045,064
1,1-Dichloroethane	T209	M105	0.050	mg/kg	M	045,064
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	M	045,064
1,1-Dichloropropene	T209	M105	0.050	mg/kg	M	045,064
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	U	045,064
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	M	045,064
1,2-dibromoethane	T209	M105	0.050	mg/kg	M	045,064
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	M	045,064
1,2-Dichloroethane	T209	M105	0.050	mg/kg	M	045,064
1,2-Dichloropropane	T209	M105	0.050	mg/kg	M	045,064
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	M	045,064
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	M	045,064
1,3-Dichloropropane	T209	M105	0.050	mg/kg	M	045,064
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	M	045,064
2,2-Dichloropropane	T209	M105	0.050	mg/kg	U	045,064
2-Chlorotoluene	T209	M105	0.050	mg/kg	U	045,064
4-Chlorotoluene	T209	M105	0.050	mg/kg	U	045,064
Benzene	T209	M105	0.010	mg/kg	M	045,064
Bromobenzene	T209	M105	0.050	mg/kg	M	045,064
Bromochloromethane	T209	M105	0.050	mg/kg	M	045,064
Bromodichloromethane	T209	M105	0.050	mg/kg	M	045,064
Bromoform	T209	M105	0.050	mg/kg	M	045,064
Bromomethane	T209	M105	0.050	mg/kg	U	045,064

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Carbon tetrachloride	T209	M105	0.050	mg/kg	M	045,064
Chlorobenzene	T209	M105	0.050	mg/kg	M	045,064
Chlorodibromomethane	T209	M105	0.050	mg/kg	M	045,064
Chloroethane	T209	M105	0.050	mg/kg	M	045,064
Chloroform	T209	M105	0.050	mg/kg	M	045,064
Chloromethane	T209	M105	0.050	mg/kg	U	045,064
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	M	045,064
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	045,064
Dibromomethane	T209	M105	0.050	mg/kg	M	045,064
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	M	045,064
Dichloromethane	T209	M105	0.050	mg/kg	U	045,064
EthylBenzene	T209	M105	0.010	mg/kg	M	045,064
Isopropyl benzene	T209	M105	0.050	mg/kg	M	045,064
M/P Xylene	T209	M105	0.010	mg/kg	M	045,064
n-Propylbenzene	T209	M105	0.050	mg/kg	M	045,064
O Xylene	T209	M105	0.010	mg/kg	M	045,064
p-Isopropyltoluene	T209	M105	0.050	mg/kg	M	045,064
S-Butylbenzene	T209	M105	0.050	mg/kg	M	045,064
Styrene	T209	M105	0.050	mg/kg	U	045,064
T-Butylbenzene	T209	M105	0.050	mg/kg	M	045,064
Tetrachloroethene	T209	M105	0.050	mg/kg	M	045,064
Toluene	T209	M105	0.010	mg/kg	M	045,064
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	M	045,064
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	045,064
Trichloroethene	T209	M105	0.050	mg/kg	M	045,064
Trichlorofluoromethane	T209	M105	0.050	mg/kg	M	045,064
Vinyl chloride	T209	M105	0.050	mg/kg	M	045,064

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 345249-1

Date of Report: 27-Aug-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Zoe Miller

Customer Job Reference: 112630
Customer Site Reference: A63 Castle St - 23, 25 & 26
Date Job Received at SAL: 07-Aug-2013
Date Analysis Started: 16-Aug-2013
Date Analysis Completed: 27-Aug-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked and authorised by :
Mr Ross Walker
Customer Services Manager (Land)

Issued by :
Mr Ross Walker
Customer Services Manager (Land)

[redacted]

SAL Reference: 345249
Project Site: A63 Castle St - 23, 25 & 26
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**345249 003**	**345249 007**	**345249 011**	**345249 014**	**345249 018**	**345249 023**	**345249 028**	**345249 032**	**345249 033**
				Customer Sample Reference	**BH09 ES 006 1.6**	**BH09 ES 018 4.4**	**BH09 ES 027 8.0**	**BH45 ES 005 0.6**	**BH45 ES 012 2.5**	**BH45 ES 003 0.3**	**BH45 ES 023 5.0**	**SCPT27 ES 001 0.5**	**SCTP27 ES 002 1.0**
				Date Sampled	**06-AUG-2013**	**06-AUG-2013**	**06-AUG-2013**	**06-AUG-2013**	**06-AUG-2013**	**06-AUG-2013**	**06-AUG-2013**	**05-AUG-2013**	**05-AUG-2013**
				Top Depth	**1.6**	**4.4**	**8.0**	**0.6**	**2.5**	**0.3**	**5.0**	**0.5**	**1.0**
				Type	**Clay**	**Clay**	**Clay**	**Sandy Soil**	**Clay**	**Sandy Soil**	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
Moisture @ 105 C	T162	AR	0.1	%	**25**	**29**	**30**	**24**	**27**	**18**	**26**	**18**	**26**
Moisture	T277	AR	0.1	%	**24**	**29**	**31**	**25**	**23**	**17**	**26**	**19**	**24**
Asbestos ID	T27	AR			N.D.	-	-	N.D.	N.D.	N.D.	-	N.D.	N.D.
pH	T7	AR			**8.3**	**7.8**	**8.3**	**7.7**	**7.6**	**8.1**	**7.7**	**7.7**	**7.8**
Mass Fraction of organic carbon	T286	M40			**0.0063**	-	**0.0080**	-	**0.0071**	-	**0.015**	-	**0.015**
Arsenic	T6	M40	2	mg/kg	**11**	**9**	**9**	**14**	**17**	**19**	**10**	**27**	**16**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	**1**	<1	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**47**	**22**	**21**	**14**	**26**	**13**	**21**	**39**	**35**
Chromium (trivalent)	T85	AR	2	mg/kg	**47**	**22**	**21**	**14**	**26**	**13**	**21**	**39**	**35**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**16**	**13**	**12**	**94**	**21**	**82**	**17**	**45**	**25**
Lead	T6	M40	1	mg/kg	**18**	**13**	**13**	**160**	**45**	**240**	**22**	**130**	**57**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**27**	**23**	**23**	**17**	**28**	**19**	**23**	**38**	**36**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**70**	**57**	**55**	**89**	**70**	**89**	**58**	**140**	**110**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.05**	**0.70**	**0.52**	**0.23**	**0.08**	**0.25**	**1.3**	**0.19**	**0.15**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	**0.06**	<0.01	**0.01**	**0.02**
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**0.1**	<0.1	<0.1	**1.1**
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**0.5**	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**1.3**	<0.1	**0.2**	**2.9**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**4.6**	<0.1	**0.8**	**4.8**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**2.6**	<0.1	**0.5**	**3.1**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**3.1**	<0.1	**0.7**	**3.3**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**1.3**	<0.1	**0.3**	**1.6**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**2.0**	<0.1	**0.4**	**2.6**
Chrysene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.1**	<0.1	**4.0**	<0.1	**0.8**	**4.4**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**0.4**	<0.1	<0.1	**0.4**
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.4**	<0.1	**7.0**	<0.1	**1.9**	**12**
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**0.2**	<0.1	<0.1	**1.1**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**1.2**	<0.1	**0.3**	**1.6**
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**0.5**	<0.1	**0.2**	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	<0.1	**3.9**	<0.1	**0.8**	**8.8**
Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.3**	<0.1	**5.8**	<0.1	**1.7**	**9.4**
PAH(total)	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**1.0**	<0.1	**39**	<0.1	**8.6**	**57**
TPH (C8-C10)	T8	M105	1	mg/kg	-	<1	<1	-	<1	<1	<1	<1	-
TPH (C10-C12)	T206	M105	1	mg/kg	-	<1	<1	-	<1	**1**	<1	<1	-
TPH (C12-C16)	T206	M105	1	mg/kg	-	<1	<1	-	<1	**36**	<1	<1	-
TPH (C16-C21)	T206	M105	1	mg/kg	-	<1	<1	-	<1	**210**	<1	**5**	-
TPH (C21-C35)	T206	M105	1	mg/kg	-	<1	<1	-	<1	**430**	**2**	**8**	-
TPH (C35-C40)	T8	M105	1	mg/kg	-	<1	<1	-	<1	**23**	<1	<1	-
TPH (C8 - C40)	T85	M105	1	mg/kg	-	<1	<1	-	<1	**700**	**2**	**12**	-
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	<0.100	-	-	<0.100	-	-	-	-	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	<0.10	-	-	<0.10	-	-	-	-	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	<0.10	-	-	<0.10	-	-	-	-	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	<1	-	-	<1	-	-	-	-	<1
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	<2	-	-	<2	-	-	-	-	<2
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	<1	-	-	<1	-	-	-	-	<1
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	<4	-	-	<4	-	-	-	-	<4
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	<1	-	-	<1	-	-	-	-	<1
TPH (Aliphatic) total	T85	M105		mg/kg	N.D.	-	-	N.D.	-	-	-	-	N.D.

SAL Reference: 345249
Project Site: A63 Castle St - 23, 25 & 26
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**345249 003**	**345249 007**	**345249 011**	**345249 014**	**345249 018**	**345249 023**	**345249 028**	**345249 032**	**345249 033**
				Customer Sample Reference	**BH09 ES 006 1.6**	**BH09 ES 018 4.4**	**BH09 ES 027 8.0**	**BH45 ES 005 0.6**	**BH45 ES 012 2.5**	**BH45 ES 003 0.3**	**BH45 ES 023 5.0**	**SCPT27 ES 001 0.5**	**SCTP27 ES 002 1.0**
				Date Sampled	**06-AUG-2013**	**06-AUG-2013**	**06-AUG-2013**	**06-AUG-2013**	**06-AUG-2013**	**06-AUG-2013**	**06-AUG-2013**	**05-AUG-2013**	**05-AUG-2013**
				Top Depth	**1.6**	**4.4**	**8.0**	**0.6**	**2.5**	**0.3**	**5.0**	**0.5**	**1.0**
				Type	**Clay**	**Clay**	**Clay**	**Sandy Soil**	**Clay**	**Sandy Soil**	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	<0.10	-	-	<0.10	-	-	-	-	<0.10
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	<0.10	-	-	<0.10	-	-	-	-	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	<0.10	-	-	<0.10	-	-	-	-	<0.10
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	<1	-	-	<1	-	-	-	-	<1
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	<1	-	-	<1	-	-	-	-	<1
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	<1	-	-	<1	-	-	-	-	**2**
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	<1	-	-	**2**	-	-	-	-	**4**
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	<1	-	-	<1	-	-	-	-	<1
TPH (Aromatic) total	T85	M105		mg/kg	N.D.	-	-	**2.0**	-	-	-	-	**6.0**
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N.D.	-	-	**2.0**	-	-	-	-	**6.0**
Benzene	T209	M105	0.010	mg/kg	<0.010	-	-	<0.010	-	-	-	-	<0.010
Toluene	T209	M105	0.010	mg/kg	<0.010	-	-	<0.010	-	-	-	-	**0.015**
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	-	-	<0.010	-	-	-	-	<0.010
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	<0.010	-	-	<0.010	-	-	-	-	<0.010
O Xylene	T209	M105	0.010	mg/kg	<0.010	-	-	<0.010	-	-	-	-	<0.010
M/P Xylene	T209	M105	0.010	mg/kg	<0.010	-	-	<0.010	-	-	-	-	**0.017**
PCB BZ#101	T1	M105	0.00005	mg/kg	<0.00005	-	-	<0.00005	-	-	-	-	<0.00005
PCB BZ#118	T1	M105	0.00005	mg/kg	<0.00005	-	-	<0.00005	-	-	-	-	<0.00005
PCB BZ#138	T1	M105	0.00005	mg/kg	<0.00005	-	-	<0.00005	-	-	-	-	<0.00005
PCB BZ#153	T1	M105	0.00005	mg/kg	<0.00005	-	-	<0.00005	-	-	-	-	<0.00005
PCB BZ#180	T1	M105	0.00005	mg/kg	<0.00005	-	-	<0.00005	-	-	-	-	<0.00005
PCB BZ#28	T1	M105	0.00005	mg/kg	<0.00005	-	-	<0.00005	-	-	-	-	<0.00005
PCB BZ#52	T1	M105	0.00005	mg/kg	<0.00005	-	-	<0.00005	-	-	-	-	<0.00005

SAL Reference: 345249
Project Site: A63 Castle St - 23, 25 & 26
Customer Reference: 112630

Soil Analysed as Soil

Volatile Organic Compounds (USEPA 624) (MCERTS)

				SAL Reference	**345249 003**	**345249 014**	**345249 033**
				Customer Sample Reference	**BH09 ES 006 1.6**	**BH45 ES 005 0.6**	**SCTP27 ES 002 1.0**
				Date Sampled	**06-AUG-2013**	**06-AUG-2013**	**05-AUG-2013**
				Top Depth	**1.6**	**0.6**	**1.0**
				Type	**Clay**	**Sandy Soil**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2-dibromoethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,3-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
2,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
2-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
4-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Benzene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010
Bromobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Bromochloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Bromodichloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Bromoform	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Bromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Carbon tetrachloride	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Chlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Chlorodibromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Chloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Chloroform	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Chloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Dibromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Dichloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010
Isopropyl benzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
M/P Xylene	T209	M105	0.010	mg/kg	<0.010	<0.010	**0.017**
n-Propylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
O Xylene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010
p-Isopropyltoluene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
S-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Styrene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
T-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Tetrachloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Toluene	T209	M105	0.010	mg/kg	<0.010	<0.010	**0.015**
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Trichloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Trichlorofluoromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Vinyl chloride	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050

SAL Reference: 345249
Project Site: A63 Castle St - 23, 25 & 26
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

				SAL Reference	**345249 003**	**345249 014**	**345249 033**
				Customer Sample Reference	**BH09 ES 006 1.6**	**BH45 ES 005 0.6**	**SCTP27 ES 002 1.0**
				Date Sampled	**06-AUG-2013**	**06-AUG-2013**	**05-AUG-2013**
				Top Depth	**1.6**	**0.6**	**1.0**
				Type	**Clay**	**Sandy Soil**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	**1.1**
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**2.9**
Azobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**4.8**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**3.1**
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	**5.8**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	**1.6**
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Carbazole	T207	M105	0.1	mg/kg	<0.1	<0.1	**8.3**
Chrysene	T207	M105	0.1	mg/kg	<0.1	**0.1**	**4.4**
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.4**
Dibenzofuran	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.5**
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.4**	**12**
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	**1.1**
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**1.6**
Isophorone	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.2**	**8.8**

SAL Reference: 345249
Project Site: A63 Castle St - 23, 25 & 26
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

				SAL Reference	**345249 003**	**345249 014**	**345249 033**
				Customer Sample Reference	**BH09 ES 006 1.6**	**BH45 ES 005 0.6**	**SCTP27 ES 002 1.0**
				Date Sampled	**06-AUG-2013**	**06-AUG-2013**	**05-AUG-2013**
				Top Depth	**1.6**	**0.6**	**1.0**
				Type	**Clay**	**Sandy Soil**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.3**	**9.4**

SAL Reference: 345249
Project Site: A63 Castle St - 23, 25 & 26
Customer Reference: 112630

Leachate to BS EN 12457-2 (10:1) Analysed as Water
Grontmij A63 Hull Leachate Suite

				SAL Reference	**345249 003**	**345249 018**	**345249 023**
				Customer Sample Reference	**BH09 ES 006 1.6**	**BH45 ES 012 2.5**	**BH45 ES 003 0.3**
				Date Sampled	**06-AUG-2013**	**06-AUG-2013**	**06-AUG-2013**
				Top Depth	**1.6**	**2.5**	**0.3**
				Type	**Clay**	**Clay**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
pH	T7	10:1			**8.1**	**8.2**	**7.8**
As (Dissolved)	T281	10:1	0.2	µg/l	**1.6**	**3.6**	**11**
Boron	T6	10:1	10	µg/l	**22**	**68**	**49**
Cd (Dissolved)	T281	10:1	0.02	µg/l	**0.04**	**0.03**	<0.02
Cr (Dissolved)	T281	10:1	1	µg/l	**1**	<1	**1**
Chromium (trivalent)	T85	10:1	3	µg/l	<3	<3	<3
Chromium VI	T686	10:1	3	µg/l	<3	<3	<3
Cu (Dissolved)	T281	10:1	0.5	µg/l	**2.0**	**4.8**	**2.9**
Pb (Dissolved)	T281	10:1	0.3	µg/l	**0.9**	<0.3	**0.8**
Hg (Dissolved)	T281	10:1	0.05	µg/l	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	10:1	1	µg/l	<1	**1**	<1
Se (Dissolved)	T281	10:1	0.5	µg/l	<0.5	**0.7**	<0.5
Zn (Dissolved)	T281	10:1	2	µg/l	**3**	**2**	<2
Sulphate	T686	10:1	0.5	mg/l	**6.0**	**24**	**23**
Sulphide	T4	10:1	0.05	mg/l	<0.05	<0.05	<0.05
Sulphur (total)	T65	10:1	0.01	mg/l	**1.7**	**6.8**	**8.5**
Total Phenols	T16	10:1	0.5	µg/l	(100) <0.9	(100) <0.9	(100) <0.9
Cyanide(Total)	T220	10:1	10	µg/l	<10	<10	<10
Cyanide(free)	T220	10:1	10	µg/l	<10	<10	<10
Acenaphthene	T149	10:1	0.01	µg/l	(100) <0.02	**0.03**	(100) <0.02
Acenaphthylene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	**0.11**
Anthracene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	**0.14**
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	**0.09**	**0.15**	**1.3**
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	**0.13**	**0.18**	**1.2**
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	**0.15**	**0.19**	**1.4**
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	**0.11**	**0.15**	**0.81**
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	**0.10**	**0.15**	**0.80**
Chrysene	T149	10:1	0.01	µg/l	**0.11**	**0.16**	**1.3**
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	(110) <0.10	(110) <0.10	**0.24**
Fluoranthene	T149	10:1	0.01	µg/l	(100) <0.02	**0.06**	**2.4**
Fluorene	T149	10:1	0.01	µg/l	(100) <0.02	**0.02**	(100) <0.02
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	**0.10**	**0.15**	**1.1**
Naphthalene	T149	10:1	0.01	µg/l	**0.08**	**0.28**	(100) <0.02
Phenanthrene	T149	10:1	0.01	µg/l	(100) <0.02	**0.06**	**0.29**
Pyrene	T149	10:1	0.01	µg/l	(100) <0.02	**0.04**	**2.3**
PAH(total)	T149	10:1	0.01	µg/l	**0.87**	**1.6**	**13**
PAH (sum of 4)	T85	10:1		µg/l	**0.46**	**0.64**	**4.1**
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	**0.25**	**0.34**	**2.2**
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	**0.21**	**0.30**	**1.9**
TPH (C8-C10) DW	T81	10:1	0.01	mg/l	<0.01	<0.01	<0.01
TPH (C10-C12) DW	T81	10:1	0.01	mg/l	<0.01	<0.01	<0.01
TPH (C12-C16) DW	T81	10:1	0.01	mg/l	<0.01	<0.01	<0.01
TPH (C16-C21) DW	T81	10:1	0.01	mg/l	<0.01	<0.01	**0.03**
TPH (C21-C35) DW	T81	10:1	0.01	mg/l	<0.01	<0.01	**0.07**
TPH (C35-C40)	T81	10:1	0.01	mg/l	<0.01	<0.01	**0.01**
TPH (C8 - C40)	T85	10:1	0.01	mg/l	<0.01	<0.01	**0.11**

Index to symbols used in 345249-1

Value	Description
10:1	Leachate to BS EN 12457-2 (10:1)
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
AR	As Received

M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
N.D.	Not Detected
100	LOD determined by sample aliquot used for analysis
110	LOD raised due to low internal standard recovery.
W	Analysis was performed at another SAL laboratory
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T206	GC/FID (MCERTS)
T27	PLM
T546	Colorimetry (CF)
T686	Discrete Analyser
T65	ICP/OES (Preconc.)
T81	GC/FID (LV)
T1	GC/MS (HR)
T286	Calc TOC/100
T6	ICP/OES
T162	Grav (1 Dec) (105 C)
T4	Colorimetry
T209	GC/MS(Head Space)(MCERTS)
T8	GC/FID
T149	GC/MS (SIR)
T207	GC/MS(MCERTS)
T281	ICP/MS (Filtered)
T7	Probe
T85	Calc
T16	GC/MS
T220	Colorimetry (SD)
T277	Grav (1 Dec) (40 C)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture @ 105 C	T162	AR	0.1	%	N	003,007,011,014,018,023,028,032-033
Moisture	T277	AR	0.1	%	N	003,007,011,014,018,023,028,032-033
Asbestos ID	T27	AR			SU	003,014,018,023,032-033
pH	T7	AR			M	003,007,011,014,018,023,028,032-033
Mass Fraction of organic carbon	T286	M40			N	003,011,018,028,033
Arsenic	T6	M40	2	mg/kg	M	003,007,011,014,018,023,028,032-033
Boron (water-soluble)	T6	AR	1	mg/kg	N	003,007,011,014,018,023,028,032-033
Cadmium	T6	M40	1	mg/kg	M	003,007,011,014,018,023,028,032-033
Chromium	T6	M40	1	mg/kg	M	003,007,011,014,018,023,028,032-033
Chromium (trivalent)	T85	AR	2	mg/kg	N	003,007,011,014,018,023,028,032-033
Chromium VI	T6	AR	1	mg/kg	N	003,007,011,014,018,023,028,032-033
Copper	T6	M40	1	mg/kg	M	003,007,011,014,018,023,028,032-033
Lead	T6	M40	1	mg/kg	M	003,007,011,014,018,023,028,032-033
Mercury	T6	M40	1	mg/kg	M	003,007,011,014,018,023,028,032-033
Nickel	T6	M40	1	mg/kg	M	003,007,011,014,018,023,028,032-033
Selenium	T6	M40	3	mg/kg	M	003,007,011,014,018,023,028,032-033
Zinc	T6	M40	1	mg/kg	M	003,007,011,014,018,023,028,032-033
Cyanide(Total)	T546	AR	1	mg/kg	M	003,007,011,014,018,023,028,032-033
Cyanide(free)	T546	AR	1	mg/kg	M	003,007,011,014,018,023,028,032-033
SO4(Total)	T6	M40	0.01	%	N	003,007,011,014,018,023,028,032-033
Total Phenols	T149	AR	0.01	mg/kg	U	003,007,011,014,018,023,028,032-033
Acenaphthene	T207	M105	0.1	mg/kg	M	003,007,011,014,018,023,028,032-033
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	003,007,011,014,018,023,028,032-033
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	003,007,011,014,018,023,028,032-033
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	003,007,011,014,018,023,028,032-033
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	003,007,011,014,018,023,028,032-033
Chrysene	T207	M105	0.1	mg/kg	M	003,007,011,014,018,023,028,032-033
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	003,007,011,014,018,023,028,032-033
Naphthalene	T207	M105	0.1	mg/kg	M	003,007,011,014,018,023,028,032-033
Phenanthrene	T207	M105	0.1	mg/kg	M	003,007,011,014,018,023,028,032-033

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
PAH(total)	T207	M105	0.1	mg/kg	U	003,007,011,014,018,023,028,032-033
TPH (C8-C10)	T8	M105	1	mg/kg	N	007,011,018,023,028,032
TPH (C10-C12)	T206	M105	1	mg/kg	M	007,011,018,023,028,032
TPH (C12-C16)	T206	M105	1	mg/kg	M	007,011,018,023,028,032
TPH (C16-C21)	T206	M105	1	mg/kg	M	007,011,018,023,028,032
TPH (C21-C35)	T206	M105	1	mg/kg	M	007,011,018,023,028,032
TPH (C35-C40)	T8	M105	1	mg/kg	N	007,011,018,023,028,032
TPH (C8 - C40)	T85	M105	1	mg/kg	N	007,011,018,023,028,032
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	N	003,014,033
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	N	003,014,033
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	N	003,014,033
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	M	003,014,033
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	M	003,014,033
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	M	003,014,033
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	M	003,014,033
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	N	003,014,033
TPH (Aliphatic) total	T85	M105		mg/kg	N	003,014,033
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	N	003,014,033
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	N	003,014,033
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	N	003,014,033
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	M	003,014,033
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	M	003,014,033
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	M	003,014,033
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	M	003,014,033
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	N	003,014,033
TPH (Aromatic) total	T85	M105		mg/kg	N	003,014,033
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N	003,014,033
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	M	003,014,033
O Xylene	T209	M105	0.010	mg/kg	M	003,014,033
PCB BZ#101	T1	M105	0.00005	mg/kg	M	003,014,033
PCB BZ#118	T1	M105	0.00005	mg/kg	M	003,014,033
PCB BZ#138	T1	M105	0.00005	mg/kg	M	003,014,033
PCB BZ#153	T1	M105	0.00005	mg/kg	M	003,014,033
PCB BZ#180	T1	M105	0.00005	mg/kg	M	003,014,033
PCB BZ#28	T1	M105	0.00005	mg/kg	M	003,014,033
PCB BZ#52	T1	M105	0.00005	mg/kg	M	003,014,033
pH	T7	10:1			U	003,018,023
As (Dissolved)	T281	10:1	0.2	µg/l	U	003,018,023
Boron	T6	10:1	10	µg/l	N	003,018,023
Cd (Dissolved)	T281	10:1	0.02	µg/l	U	003,018,023
Cr (Dissolved)	T281	10:1	1	µg/l	U	003,018,023
Chromium (trivalent)	T85	10:1	3	µg/l	N	003,018,023
Chromium VI	T686	10:1	3	µg/l	U	003,018,023
Cu (Dissolved)	T281	10:1	0.5	µg/l	U	003,018,023
Pb (Dissolved)	T281	10:1	0.3	µg/l	U	003,018,023
Hg (Dissolved)	T281	10:1	0.05	µg/l	U	003,018,023
Ni (Dissolved)	T281	10:1	1	µg/l	U	003,018,023
Se (Dissolved)	T281	10:1	0.5	µg/l	U	003,018,023
Zn (Dissolved)	T281	10:1	2	µg/l	U	003,018,023
Sulphate	T686	10:1	0.5	mg/l	U	003,018,023
Sulphide	T4	10:1	0.05	mg/l	N	003,018,023
Sulphur (total)	T65	10:1	0.01	mg/l	N	003,018,023
Total Phenols	T16	10:1	0.5	µg/l	U	003,018,023
Cyanide(Total)	T220	10:1	10	µg/l	WU	003,018,023
Cyanide(free)	T220	10:1	10	µg/l	WN	003,018,023
Acenaphthene	T149	10:1	0.01	µg/l	U	003,018,023
Acenaphthylene	T149	10:1	0.01	µg/l	U	003,018,023
Anthracene	T149	10:1	0.01	µg/l	U	003,018,023
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	U	003,018,023
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	U	003,018,023
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	U	003,018,023
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	U	003,018,023
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	U	003,018,023
Chrysene	T149	10:1	0.01	µg/l	U	003,018,023
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	U	003,018,023
Fluoranthene	T149	10:1	0.01	µg/l	U	003,018,023
Fluorene	T149	10:1	0.01	µg/l	U	003,018,023
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	U	003,018,023
Naphthalene	T149	10:1	0.01	µg/l	U	003,018,023
Phenanthrene	T149	10:1	0.01	µg/l	U	003,018,023

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Pyrene	T149	10:1	0.01	µg/l	U	003,018,023
PAH(total)	T149	10:1	0.01	µg/l	U	003,018,023
PAH (sum of 4)	T85	10:1		µg/l	N	003,018,023
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	U	003,018,023
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	N	003,018,023
TPH (C8-C10) DW	T81	10:1	0.01	mg/l	U	003,018,023
TPH (C10-C12) DW	T81	10:1	0.01	mg/l	U	003,018,023
TPH (C12-C16) DW	T81	10:1	0.01	mg/l	U	003,018,023
TPH (C16-C21) DW	T81	10:1	0.01	mg/l	U	003,018,023
TPH (C21-C35) DW	T81	10:1	0.01	mg/l	U	003,018,023
TPH (C35-C40)	T81	10:1	0.01	mg/l	N	003,018,023
TPH (C8 - C40)	T85	10:1	0.01	mg/l	N	003,018,023
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	003,014,033
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	003,014,033
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	003,014,033
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	003,014,033
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	003,014,033
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	003,014,033
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	003,014,033
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	003,014,033
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	U	003,014,033
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	003,014,033
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	003,014,033
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	003,014,033
2-Chlorophenol	T207	M105	0.1	mg/kg	M	003,014,033
2-methyl phenol	T207	M105	0.1	mg/kg	M	003,014,033
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	003,014,033
2-Nitroaniline	T207	M105	0.1	mg/kg	M	003,014,033
2-Nitrophenol	T207	M105	0.1	mg/kg	U	003,014,033
3-Nitroaniline	T207	M105	0.1	mg/kg	U	003,014,033
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	003,014,033
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	003,014,033
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	003,014,033
4-Chloroaniline	T207	M105	0.1	mg/kg	U	003,014,033
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	003,014,033
4-Nitroaniline	T207	M105	0.1	mg/kg	U	003,014,033
4-Nitrophenol	T207	M105	0.1	mg/kg	U	003,014,033
Acenaphthylene	T207	M105	0.1	mg/kg	U	003,007,011,014,018,023,028,032-033
Anthracene	T207	M105	0.1	mg/kg	U	003,007,011,014,018,023,028,032-033
Azobenzene	T207	M105	0.1	mg/kg	M	003,014,033
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	003,014,033
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	003,007,011,014,018,023,028,032-033
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	003,014,033
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	003,014,033
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	003,014,033
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	003,014,033
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	003,014,033
Carbazole	T207	M105	0.1	mg/kg	U	003,014,033
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	003,014,033
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	003,014,033
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	003,007,011,014,018,023,028,032-033
Dibenzofuran	T207	M105	0.1	mg/kg	M	003,014,033
Diethyl phthalate	T207	M105	0.1	mg/kg	U	003,014,033
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	003,014,033
Fluoranthene	T207	M105	0.1	mg/kg	M	003,007,011,014,018,023,028,032-033
Fluorene	T207	M105	0.1	mg/kg	M	003,007,011,014,018,023,028,032-033
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	003,014,033
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	003,014,033
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	003,014,033
Hexachloroethane	T207	M105	0.1	mg/kg	U	003,014,033
Isophorone	T207	M105	0.1	mg/kg	U	003,014,033
Nitrobenzene	T207	M105	0.1	mg/kg	M	003,014,033
Pentachlorophenol	T207	M105	0.1	mg/kg	U	003,014,033
Phenol	T207	M105	0.1	mg/kg	M	003,014,033
Pyrene	T207	M105	0.1	mg/kg	M	003,007,011,014,018,023,028,032-033
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	M	003,014,033
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	M	003,014,033
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	U	003,014,033
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	M	003,014,033
1,1-Dichloroethane	T209	M105	0.050	mg/kg	M	003,014,033

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	M	003,014,033
1,1-Dichloropropene	T209	M105	0.050	mg/kg	M	003,014,033
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	U	003,014,033
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	M	003,014,033
1,2-dibromoethane	T209	M105	0.050	mg/kg	M	003,014,033
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	M	003,014,033
1,2-Dichloroethane	T209	M105	0.050	mg/kg	M	003,014,033
1,2-Dichloropropane	T209	M105	0.050	mg/kg	M	003,014,033
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	M	003,014,033
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	M	003,014,033
1,3-Dichloropropane	T209	M105	0.050	mg/kg	M	003,014,033
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	M	003,014,033
2,2-Dichloropropane	T209	M105	0.050	mg/kg	U	003,014,033
2-Chlorotoluene	T209	M105	0.050	mg/kg	U	003,014,033
4-Chlorotoluene	T209	M105	0.050	mg/kg	U	003,014,033
Benzene	T209	M105	0.010	mg/kg	M	003,014,033
Bromobenzene	T209	M105	0.050	mg/kg	M	003,014,033
Bromochloromethane	T209	M105	0.050	mg/kg	M	003,014,033
Bromodichloromethane	T209	M105	0.050	mg/kg	M	003,014,033
Bromoform	T209	M105	0.050	mg/kg	M	003,014,033
Bromomethane	T209	M105	0.050	mg/kg	U	003,014,033
Carbon tetrachloride	T209	M105	0.050	mg/kg	M	003,014,033
Chlorobenzene	T209	M105	0.050	mg/kg	M	003,014,033
Chlorodibromomethane	T209	M105	0.050	mg/kg	M	003,014,033
Chloroethane	T209	M105	0.050	mg/kg	M	003,014,033
Chloroform	T209	M105	0.050	mg/kg	M	003,014,033
Chloromethane	T209	M105	0.050	mg/kg	U	003,014,033
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	M	003,014,033
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	003,014,033
Dibromomethane	T209	M105	0.050	mg/kg	M	003,014,033
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	M	003,014,033
Dichloromethane	T209	M105	0.050	mg/kg	U	003,014,033
EthylBenzene	T209	M105	0.010	mg/kg	M	003,014,033
Isopropyl benzene	T209	M105	0.050	mg/kg	M	003,014,033
M/P Xylene	T209	M105	0.010	mg/kg	M	003,014,033
n-Propylbenzene	T209	M105	0.050	mg/kg	M	003,014,033
p-Isopropyltoluene	T209	M105	0.050	mg/kg	M	003,014,033
S-Butylbenzene	T209	M105	0.050	mg/kg	M	003,014,033
Styrene	T209	M105	0.050	mg/kg	U	003,014,033
T-Butylbenzene	T209	M105	0.050	mg/kg	M	003,014,033
Tetrachloroethene	T209	M105	0.050	mg/kg	M	003,014,033
Toluene	T209	M105	0.010	mg/kg	M	003,014,033
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	M	003,014,033
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	003,014,033
Trichloroethene	T209	M105	0.050	mg/kg	M	003,014,033
Trichlorofluoromethane	T209	M105	0.050	mg/kg	M	003,014,033
Vinyl chloride	T209	M105	0.050	mg/kg	M	003,014,033

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 345430-1

Date of Report: 28-Aug-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Site Reference: A63 Castle St 27, 29, 30
Date Job Received at SAL: 13-Aug-2013
Date Analysis Started: 20-Aug-2013
Date Analysis Completed: 28-Aug-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

[redacted]

SAL Reference: 345430
Project Site: A63 Castle St 27, 29, 30
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**345430 001**	**345430 004**	**345430 007**	**345430 010**	**345430 012**	**345430 013**	**345430 015**	**345430 021**	**345430 023**
				Customer Sample Reference	**BH17 ES 004 0.5**	**BH17 ES 010 2.25**	**BH17 ES 017 4.6**	**BH17 ES 024 7.8**	**SBP03 ES 001 0.15-0.5**	**BH06 ES 002 1.5**	**BH06 ES 006 2.5**	**BH43 ES 001 0.5**	**BH43 ES 005 1.5**
				Date Sampled	**09-AUG-2013**	**09-AUG-2013**	**09-AUG-2013**	**09-AUG-2013**	**09-AUG-2013**	**12-AUG-2013**	**12-AUG-2013**	**12-AUG-2013**	**12-AUG-2013**
				Type	**Sandy Soil**	**Clay**	**Clay**	**Clay**	**Sandy Soil**	**Clay**	**Clay**	**Sandy Soil**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
Moisture @ 105 C	T162	AR	0.1	%	**11**	**24**	**30**	**28**	**12**	**19**	**26**	**13**	**26**
Moisture	T277	AR	0.1	%	**9.4**	**21**	**30**	**30**	**11**	**18**	**25**	**17**	**23**
Asbestos ID	T27	AR			N.D.	N.D.	-	-	N.D.	N.D.	Chrysotile Detected -	N.D.	N.D.
pH	T7	AR			**8.2**	**8.2**	**8.0**	**8.3**	**8.3**	**8.0**	**7.8**	**8.2**	**8.1**
Mass Fraction of organic carbon	T286	M40			-	-	**0.0095**	-	-	-	**0.56**	-	-
Arsenic	T6	M40	2	mg/kg	**31**	**10**	**12**	**9**	**3**	**12**	**11**	**24**	**18**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**29**	**25**	**24**	**19**	**6**	**27**	**19**	**17**	**26**
Chromium (trivalent)	T85	AR	2	mg/kg	**29**	**25**	**24**	**19**	**6**	**27**	**19**	**17**	**26**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**130**	**19**	**16**	**11**	**5**	**19**	**11**	**100**	**78**
Lead	T6	M40	1	mg/kg	**1500**	**57**	**16**	**12**	**18**	**35**	**12**	**300**	**76**
Mercury	T6	M40	1	mg/kg	**1**	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**27**	**25**	**24**	**20**	**5**	**27**	**19**	**25**	**27**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**290**	**72**	**65**	**51**	**39**	**80**	**50**	**110**	**110**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.21**	**0.06**	**1.1**	**0.70**	**0.05**	**0.16**	**1.2**	**0.37**	**0.20**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	**0.1**	<0.1	<0.1	<0.1	**0.2**	<0.1	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.5**	<0.1	<0.1	<0.1	**0.3**	**0.1**	<0.1	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**0.4**	<0.1	<0.1	<0.1	**0.2**	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**0.5**	<0.1	<0.1	<0.1	**0.2**	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**0.3**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**0.3**	<0.1	<0.1	<0.1	**0.2**	<0.1	<0.1	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	**0.5**	<0.1	<0.1	<0.1	**0.3**	**0.1**	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**0.9**	<0.1	<0.1	<0.1	**0.9**	**0.3**	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**0.4**	<0.1	<0.1	<0.1	**0.7**	**0.2**	<0.1	**0.2**	<0.1
Pyrene	T207	M105	0.1	mg/kg	**0.8**	<0.1	<0.1	<0.1	**0.7**	**0.3**	<0.1	<0.1	<0.1
PAH(total)	T207	M105	0.1	mg/kg	**4.9**	<0.1	<0.1	<0.1	**3.7**	**1.0**	<0.1	**0.2**	<0.1
TPH (C8-C10)	T8	M105	1	mg/kg	-	-	<1	<1	-	**2**	-	<1	-
TPH (C10-C12)	T206	M105	1	mg/kg	-	-	<1	<1	-	<1	-	<1	-
TPH (C12-C16)	T206	M105	1	mg/kg	-	-	<1	<1	-	<1	-	**3**	-
TPH (C16-C21)	T206	M105	1	mg/kg	-	-	<1	<1	-	<1	-	**3**	-
TPH (C21-C35)	T206	M105	1	mg/kg	-	-	<1	<1	-	**25**	-	**8**	-
TPH (C35-C40)	T8	M105	1	mg/kg	-	-	<1	<1	-	**8**	-	<1	-
TPH (C8 - C40)	T85	M105	1	mg/kg	-	-	<1	<1	-	**35**	-	**14**	-
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	<0.100	<0.100	-	-	<0.100	-	<0.100	-	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	-	-	<0.10	-	<0.10	-	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	-	-	<0.10	-	<0.10	-	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	<1	<1	-	-	<1	-	<1	-	<1
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	<2	<2	-	-	<2	-	<2	-	<2
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	<1	<1	-	-	<1	-	<1	-	<1
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	<4	<4	-	-	**8**	-	<4	-	<4
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	<1	<1	-	-	**6**	-	<1	-	<1

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	SAL Reference	345430 001	345430 004	345430 007	345430 010	345430 012	345430 013	345430 015	345430 021	345430 023
	Customer Sample Reference	BH17 ES 004 0.5	BH17 ES 010 2.25	BH17 ES 017 4.6	BH17 ES 024 7.8	SBP03 ES 001 0.15-0.5	BH06 ES 002 1.5	BH06 ES 006 2.5	BH43 ES 001 0.5	BH43 ES 005 1.5
	Date Sampled	09-AUG-2013	09-AUG-2013	09-AUG-2013	09-AUG-2013	09-AUG-2013	12-AUG-2013	12-AUG-2013	12-AUG-2013	12-AUG-2013
	Type	Sandy Soil	Clay	Clay	Clay	Sandy Soil	Clay	Clay	Sandy Soil	Clay
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
TPH (Aliphatic) total	T85	M105		mg/kg	N.D.	N.D.	-	-	**14**	-	N.D.	-	N.D.
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	-	-	<0.10	-	<0.10	-	<0.10
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	-	-	<0.10	-	<0.10	-	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	-	-	<0.10	-	<0.10	-	<0.10
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	<1	<1	-	-	<1	-	<1	-	<1
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	<1	<1	-	-	<1	-	<1	-	<1
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	**2**	<1	-	-	**1**	-	<1	-	<1
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	**5**	<1	-	-	**3**	-	<1	-	<1
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	<1	<1	-	-	**1**	-	<1	-	<1
TPH (Aromatic) total	T85	M105		mg/kg	**7.0**	N.D.	-	-	**5.0**	-	N.D.	-	N.D.
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	**7.0**	N.D.	-	-	**19**	-	N.D.	-	N.D.
Benzene	T209	M105	0.010	mg/kg	<0.010	<0.010	-	-	<0.010	-	<0.010	-	<0.010
Toluene	T209	M105	0.010	mg/kg	<0.010	<0.010	-	-	<0.010	-	<0.010	-	<0.010
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	<0.010	-	-	<0.010	-	<0.010	-	<0.010
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	<0.010	<0.010	-	-	<0.010	-	<0.010	-	<0.010
O Xylene	T209	M105	0.010	mg/kg	<0.010	<0.010	-	-	<0.010	-	<0.010	-	<0.010
M/P Xylene	T209	M105	0.010	mg/kg	<0.010	<0.010	-	-	<0.010	-	<0.010	-	<0.010
PCB BZ#101	T1	M105	0.00005	mg/kg	**0.00017**	-	-	-	-	-	-	-	<0.00005
PCB BZ#118	T1	M105	0.00005	mg/kg	**0.00015**	-	-	-	-	-	-	-	<0.00005
PCB BZ#138	T1	M105	0.00005	mg/kg	**0.00022**	-	-	-	-	-	-	-	<0.00005
PCB BZ#153	T1	M105	0.00005	mg/kg	**0.00020**	-	-	-	-	-	-	-	<0.00005
PCB BZ#180	T1	M105	0.00005	mg/kg	**0.00015**	-	-	-	-	-	-	-	<0.00005
PCB BZ#28	T1	M105	0.00005	mg/kg	<0.00005	-	-	-	-	-	-	-	<0.00005
PCB BZ#52	T1	M105	0.00005	mg/kg	**0.00008**	-	-	-	-	-	-	-	<0.00005

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				SAL Reference	**345430 029**	**345430 034**	**345430 036**	**345430 037**	**345430 039**	**345430 043**	**345430 047**	**345430 049**
				Customer Sample Reference	**BH43 ES 018 4.5**	**BH43 ES 027 7.0**	**SCPT33 ES 002 1.0**	**BH08 ES 001 0.2**	**BH08 ES 002 1.5**	**BH08 ES 011 4.0**	**SCPT07 ES 001 0.2**	**BH06 ES 001 0.3**
				Date Sampled	**12-AUG-2013**	**12-AUG-2013**	**07-AUG-2013**	**07-AUG-2013**	**07-AUG-2013**	**07-AUG-2013**	**07-AUG-2013**	**07-AUG-2013**
				Type	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
Moisture @ 105 C	T162	AR	0.1	%	**26**	**29**	**30**	**8.8**	**23**	**28**	**13**	**7.4**
Moisture	T277	AR	0.1	%	**25**	**29**	**20**	**9.3**	**25**	**28**	**9.4**	**8.2**
Asbestos ID	T27	AR			-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
pH	T7	AR			**8.1**	**7.6**	**7.9**	**8.3**	**8.2**	**7.7**	**8.3**	**8.4**
Mass Fraction of organic carbon	T286	M40			**0.0081**	**0.0068**	-	-	**0.0074**	**0.0058**	-	-
Arsenic	T6	M40	2	mg/kg	**9**	**10**	**31**	**4**	**9**	**9**	**5**	**4**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**23**	**21**	**18**	**16**	**23**	**18**	**10**	**10**
Chromium (trivalent)	T85	AR	2	mg/kg	**23**	**21**	**18**	**16**	**23**	**18**	**10**	**10**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**15**	**14**	**350**	**11**	**12**	**11**	**9**	**6**
Lead	T6	M40	1	mg/kg	**15**	**13**	**370**	**19**	**13**	**11**	**20**	**17**
Mercury	T6	M40	1	mg/kg	<1	<1	**1**	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**23**	**22**	**38**	**15**	**22**	**18**	**9**	**10**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**59**	**58**	**180**	**49**	**56**	**45**	**86**	**55**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.20**	**1.1**	**0.42**	**0.08**	**0.07**	**0.87**	**0.09**	**0.08**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.2**	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.3**	<0.1	<0.1	<0.1	**0.2**	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.2**	<0.1
PAH(total)	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.5**	<0.1	<0.1	<0.1	**0.6**	<0.1
TPH (C8-C10)	T8	M105	1	mg/kg	<1	<1	<1	-	-	<1	<1	-
TPH (C10-C12)	T206	M105	1	mg/kg	<1	<1	<1	-	-	**1**	<1	-
TPH (C12-C16)	T206	M105	1	mg/kg	<1	<1	**4**	-	-	<1	<1	-
TPH (C16-C21)	T206	M105	1	mg/kg	<1	<1	**4**	-	-	<1	<1	-
TPH (C21-C35)	T206	M105	1	mg/kg	<1	<1	**11**	-	-	<1	**17**	-
TPH (C35-C40)	T8	M105	1	mg/kg	<1	<1	<1	-	-	<1	**3**	-
TPH (C8 - C40)	T85	M105	1	mg/kg	<1	<1	**19**	-	-	**1**	**20**	-
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	-	-	-	<0.100	<0.100	-	-	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	<0.10	-	-	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	<0.10	-	-	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	-	-	-	(9) <10	<1	-	-	<1
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	-	-	-	(9) <10	<2	-	-	<2
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	-	-	-	(9) <10	<1	-	-	<1
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	-	-	-	**44**	<4	-	-	**10**
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	-	-	-	**125**	<1	-	-	**15**
TPH (Aliphatic) total	T85	M105		mg/kg	-	-	-	**170**	N.D.	-	-	**25**
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	<0.10	-	-	<0.10

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				SAL Reference	**345430 029**	**345430 034**	**345430 036**	**345430 037**	**345430 039**	**345430 043**	**345430 047**	**345430 049**
				Customer Sample Reference	**BH43 ES 018 4.5**	**BH43 ES 027 7.0**	**SCPT33 ES 002 1.0**	**BH08 ES 001 0.2**	**BH08 ES 002 1.5**	**BH08 ES 011 4.0**	**SCPT07 ES 001 0.2**	**BH06 ES 001 0.3**
				Date Sampled	**12-AUG-2013**	**12-AUG-2013**	**07-AUG-2013**	**07-AUG-2013**	**07-AUG-2013**	**07-AUG-2013**	**07-AUG-2013**	**07-AUG-2013**
				Type	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	<0.10	-	-	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	<0.10	-	-	<0.10
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	-	-	-	(9) <10	<1	-	-	<1
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	-	-	-	(9) <10	<1	-	-	<1
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	-	-	-	(9) <10	<1	-	-	<1
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	-	-	-	(9) <10	<1	-	-	<1
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	-	-	-	(9) <10	<1	-	-	<1
TPH (Aromatic) total	T85	M105		mg/kg	-	-	-	(9) <10	N.D.	-	-	N.D.
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	-	-	-	**170**	N.D.	-	-	**25**
Benzene	T209	M105	0.010	mg/kg	-	-	-	<0.010	<0.010	-	-	<0.010
Toluene	T209	M105	0.010	mg/kg	-	-	-	<0.010	<0.010	-	-	<0.010
EthylBenzene	T209	M105	0.010	mg/kg	-	-	-	<0.010	<0.010	-	-	<0.010
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	-	-	-	<0.010	<0.010	-	-	<0.010
O Xylene	T209	M105	0.010	mg/kg	-	-	-	<0.010	<0.010	-	-	<0.010
M/P Xylene	T209	M105	0.010	mg/kg	-	-	-	<0.010	<0.010	-	-	<0.010
PCB BZ#101	T1	M105	0.00005	mg/kg	-	-	-	-	<0.00005	-	-	(9) <0.00050
PCB BZ#118	T1	M105	0.00005	mg/kg	-	-	-	-	<0.00005	-	-	(9) <0.00050
PCB BZ#138	T1	M105	0.00005	mg/kg	-	-	-	-	<0.00005	-	-	(9) <0.00050
PCB BZ#153	T1	M105	0.00005	mg/kg	-	-	-	-	<0.00005	-	-	(9) <0.00050
PCB BZ#180	T1	M105	0.00005	mg/kg	-	-	-	-	<0.00005	-	-	(9) <0.00050
PCB BZ#28	T1	M105	0.00005	mg/kg	-	-	-	-	<0.00005	-	-	(9) <0.00050
PCB BZ#52	T1	M105	0.00005	mg/kg	-	-	-	-	<0.00005	-	-	(9) <0.00050

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Volatile Organic Compounds (USEPA 624) (MCERTS)

				SAL Reference	**345430 001**	**345430 023**	**345430 039**	**345430 049**
				Customer Sample Reference	**BH17 ES 004 0.5**	**BH43 ES 005 1.5**	**BH08 ES 002 1.5**	**BH06 ES 001 0.3**
				Date Sampled	**09-AUG-2013**	**12-AUG-2013**	**07-AUG-2013**	**07-AUG-2013**
				Type	**Sandy Soil**	**Clay**	**Clay**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
1,1-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
1,2-dibromoethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
1,2-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
1,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
1,3-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
2,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
2-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
4-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Benzene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010	<0.010
Bromobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Bromochloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Bromodichloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Bromoform	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Bromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Carbon tetrachloride	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Chlorodibromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Chloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Chloroform	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Chloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Dibromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Dichloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010	<0.010
Isopropyl benzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
M/P Xylene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010	<0.010
n-Propylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
O Xylene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010	<0.010
p-Isopropyltoluene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
S-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Styrene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
T-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Tetrachloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Toluene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010	<0.010
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Trichloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Trichlorofluoromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050
Vinyl chloride	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050

SAL Reference: 345430
Project Site: A63 Castle St 27, 29, 30
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

				SAL Reference	**345430 001**	**345430 023**	**345430 039**	**345430 049**
				Customer Sample Reference	**BH17 ES 004 0.5**	**BH43 ES 005 1.5**	**BH08 ES 002 1.5**	**BH06 ES 001 0.3**
				Date Sampled	**09-AUG-2013**	**12-AUG-2013**	**07-AUG-2013**	**07-AUG-2013**
				Type	**Sandy Soil**	**Clay**	**Clay**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	**0.2**	<0.1	<0.1	<0.1
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
4-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	**0.1**	<0.1	<0.1	<0.1
Azobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.5**	<0.1	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**0.4**	<0.1	<0.1	<0.1
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	**1.2**	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**0.3**	<0.1	<0.1	<0.1
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	**0.2**	<0.1	<0.1	<0.1
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Carbazole	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	**0.5**	<0.1	<0.1	<0.1
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Dibenzofuran	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**0.9**	<0.1	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**0.2**	<0.1	<0.1	<0.1
Isophorone	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**0.4**	<0.1	<0.1	<0.1
Phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1

SAL Reference: 345430
Project Site: A63 Castle St 27, 29, 30
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

				SAL Reference	**345430 001**	**345430 023**	**345430 039**	**345430 049**
				Customer Sample Reference	**BH17 ES 004 0.5**	**BH43 ES 005 1.5**	**BH08 ES 002 1.5**	**BH06 ES 001 0.3**
				Date Sampled	**09-AUG-2013**	**12-AUG-2013**	**07-AUG-2013**	**07-AUG-2013**
				Type	**Sandy Soil**	**Clay**	**Clay**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Pyrene	T207	M105	0.1	mg/kg	**0.8**	<0.1	<0.1	<0.1

SAL Reference: 345430
Project Site: A63 Castle St 27, 29, 30
Customer Reference: 112630

Leachate to BS EN 12457-2 (10:1) Analysed as Water
Grontmij A63 Hull Leachate Suite

				SAL Reference	**345430 004**	**345430 034**	**345430 043**
				Customer Sample Reference	**BH17 ES 010 2.25**	**BH43 ES 027 7.0**	**BH08 ES 011 4.0**
				Date Sampled	**09-AUG-2013**	**12-AUG-2013**	**07-AUG-2013**
				Type	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
pH	T7	10:1			**8.7**	**8.4**	**8.2**
As (Dissolved)	T281	10:1	0.2	µg/l	**0.5**	**0.6**	**0.9**
Boron	T6	10:1	10	µg/l	**28**	**70**	**60**
Cd (Dissolved)	T281	10:1	0.02	µg/l	<0.02	<0.02	<0.02
Cr (Dissolved)	T281	10:1	1	µg/l	<1	<1	<1
Chromium (trivalent)	T85	10:1	3	µg/l	<3	<3	<3
Chromium VI	T686	10:1	3	µg/l	<3	<3	<3
Cu (Dissolved)	T281	10:1	0.5	µg/l	**1.2**	<0.5	<0.5
Pb (Dissolved)	T281	10:1	0.3	µg/l	<0.3	<0.3	<0.3
Hg (Dissolved)	T281	10:1	0.05	µg/l	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	10:1	1	µg/l	<1	<1	<1
Se (Dissolved)	T281	10:1	0.5	µg/l	**0.8**	<0.5	<0.5
Zn (Dissolved)	T281	10:1	2	µg/l	**2**	<2	<2
Sulphate	T686	10:1	0.5	mg/l	**12**	**51**	**53**
Sulphide	T4	10:1	0.05	mg/l	<0.05	<0.05	<0.05
Sulphur (total)	T65	10:1	0.01	mg/l	**4.2**	**19**	**20**
Total Phenols	T16	10:1	0.5	µg/l	(100) <0.9	(100) <0.7	(100) <0.7
Cyanide(Total)	T220	10:1	10	µg/l	<10	<10	<10
Cyanide(free)	T220	10:1	10	µg/l	<10	<10	<10
Acenaphthene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	(100) <0.02
Acenaphthylene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	**0.03**
Anthracene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	(100) <0.02
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	(100) <0.02
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10
Chrysene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	(100) <0.02
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10
Fluoranthene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	(100) <0.02
Fluorene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	(100) <0.02
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10
Naphthalene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	(100) <0.02
Phenanthrene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	(100) <0.02
Pyrene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	(100) <0.02
PAH(total)	T149	10:1	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10
PAH (sum of 4)	T85	10:1		µg/l	(110) <0.10	(110) <0.10	(110) <0.10
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	(110) <0.10	(110) <0.10	(110) <0.10
TPH (C8-C10) DW	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20
TPH (C10-C12) DW	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20
TPH (C12-C16) DW	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20
TPH (C16-C21) DW	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20
TPH (C21-C35) DW	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20
TPH (C35-C40)	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20
TPH (C8 - C40)	T85	10:1	10	µg/l	(100) <20	(100) <20	(100) <20

Index to symbols used in 345430-1

Value	Description
AR	As Received
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
10:1	Leachate to BS EN 12457-2 (10:1)

N.D.	Not Detected
110	LOD raised due to low internal standard recovery.
9	LOD raised due to dilution of sample
100	LOD determined by sample aliquot used for analysis
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T8	GC/FID
T149	GC/MS (SIR)
T286	Calc TOC/100
T4	Colorimetry
T207	GC/MS(MCERTS)
T162	Grav (1 Dec) (105 C)
T81	GC/FID (LV)
T277	Grav (1 Dec) (40 C)
T27	PLM
T85	Calc
T206	GC/FID (MCERTS)
T16	GC/MS
T209	GC/MS(Head Space)(MCERTS)
T281	ICP/MS (Filtered)
T7	Probe
T686	Discrete Analyser
T6	ICP/OES
T1	GC/MS (HR)
T220	Colorimetry (SD)
T546	Colorimetry (CF)
T65	ICP/OES (Preconc.)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture @ 105 C	T162	AR	0.1	%	N	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Moisture	T277	AR	0.1	%	N	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Asbestos ID	T27	AR			SU	001,004,012-013,015,021,023,036-037,039,043,047,049
pH	T7	AR			M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Mass Fraction of organic carbon	T286	M40			N	007,015,029,034,039,043
Arsenic	T6	M40	2	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Boron (water-soluble)	T6	AR	1	mg/kg	N	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Cadmium	T6	M40	1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Chromium	T6	M40	1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Chromium (trivalent)	T85	AR	2	mg/kg	N	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Chromium VI	T6	AR	1	mg/kg	N	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Copper	T6	M40	1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Lead	T6	M40	1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Mercury	T6	M40	1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Nickel	T6	M40	1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Selenium	T6	M40	3	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Zinc	T6	M40	1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Cyanide(Total)	T546	AR	1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Cyanide(free)	T546	AR	1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
SO4(Total)	T6	M40	0.01	%	N	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Total Phenols	T149	AR	0.01	mg/kg	U	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Acenaphthene	T207	M105	0.1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Anthracene	T207	M105	0.1	mg/kg	U	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
PAH(total)	T207	M105	0.1	mg/kg	U	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
TPH (C8-C10)	T8	M105	1	mg/kg	N	007,010,013,021,029,034,036,043,047
TPH (C10-C12)	T206	M105	1	mg/kg	M	007,010,013,021,029,034,036,043,047
TPH (C12-C16)	T206	M105	1	mg/kg	M	007,010,013,021,029,034,036,043,047
TPH (C16-C21)	T206	M105	1	mg/kg	M	007,010,013,021,029,034,036,043,047

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
TPH (C21-C35)	T206	M105	1	mg/kg	M	007,010,013,021,029,034,036,043,047
TPH (C35-C40)	T8	M105	1	mg/kg	N	007,010,013,021,029,034,036,043,047
TPH (C8 - C40)	T85	M105	1	mg/kg	N	007,010,013,021,029,034,036,043,047
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	N	001,004,012,015,023,037,039,049
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	N	001,004,012,015,023,037,039,049
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	N	001,004,012,015,023,037,039,049
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	M	001,004,012,015,023,037,039,049
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	M	001,004,012,015,023,037,039,049
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	M	001,004,012,015,023,037,039,049
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	M	001,004,012,015,023,037,039,049
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	N	001,004,012,015,023,037,039,049
TPH (Aliphatic) total	T85	M105		mg/kg	N	001,004,012,015,023,037,039,049
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	N	001,004,012,015,023,037,039,049
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	N	001,004,012,015,023,037,039,049
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	N	001,004,012,015,023,037,039,049
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	M	001,004,012,015,023,037,039,049
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	M	001,004,012,015,023,037,039,049
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	M	001,004,012,015,023,037,039,049
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	M	001,004,012,015,023,037,039,049
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	N	001,004,012,015,023,037,039,049
TPH (Aromatic) total	T85	M105		mg/kg	N	001,004,012,015,023,037,039,049
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N	001,004,012,015,023,037,039,049
Benzene	T209	M105	0.010	mg/kg	M	001,004,012,015,023,037,039,049
Toluene	T209	M105	0.010	mg/kg	M	001,004,012,015,023,037,039,049
EthylBenzene	T209	M105	0.010	mg/kg	M	001,004,012,015,023,037,039,049
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	M	001,004,012,015,023,037,039,049
O Xylene	T209	M105	0.010	mg/kg	M	001,004,012,015,023,037,039,049
M/P Xylene	T209	M105	0.010	mg/kg	M	001,004,012,015,023,037,039,049
PCB BZ#101	T1	M105	0.00005	mg/kg	M	001,023,039,049
PCB BZ#118	T1	M105	0.00005	mg/kg	M	001,023,039,049
PCB BZ#138	T1	M105	0.00005	mg/kg	M	001,023,039,049
PCB BZ#153	T1	M105	0.00005	mg/kg	M	001,023,039,049
PCB BZ#180	T1	M105	0.00005	mg/kg	M	001,023,039,049
PCB BZ#28	T1	M105	0.00005	mg/kg	M	001,023,039,049
PCB BZ#52	T1	M105	0.00005	mg/kg	M	001,023,039,049
pH	T7	10:1			U	004,034,043
As (Dissolved)	T281	10:1	0.2	µg/l	U	004,034,043
Boron	T6	10:1	10	µg/l	N	004,034,043
Cd (Dissolved)	T281	10:1	0.02	µg/l	U	004,034,043
Cr (Dissolved)	T281	10:1	1	µg/l	U	004,034,043
Chromium (trivalent)	T85	10:1	3	µg/l	N	004,034,043
Chromium VI	T686	10:1	3	µg/l	U	004,034,043
Cu (Dissolved)	T281	10:1	0.5	µg/l	U	004,034,043
Pb (Dissolved)	T281	10:1	0.3	µg/l	U	004,034,043
Hg (Dissolved)	T281	10:1	0.05	µg/l	U	004,034,043
Ni (Dissolved)	T281	10:1	1	µg/l	U	004,034,043
Se (Dissolved)	T281	10:1	0.5	µg/l	U	004,034,043
Zn (Dissolved)	T281	10:1	2	µg/l	U	004,034,043
Sulphate	T686	10:1	0.5	mg/l	U	004,034,043
Sulphide	T4	10:1	0.05	mg/l	N	004,034,043
Sulphur (total)	T65	10:1	0.01	mg/l	N	004,034,043
Total Phenols	T16	10:1	0.5	µg/l	U	004,034,043
Cyanide(Total)	T220	10:1	10	µg/l	U	004,034,043
Cyanide(free)	T220	10:1	10	µg/l	N	004,034,043
Acenaphthene	T149	10:1	0.01	µg/l	U	004,034,043
Acenaphthylene	T149	10:1	0.01	µg/l	U	004,034,043
Anthracene	T149	10:1	0.01	µg/l	U	004,034,043
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	U	004,034,043
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	U	004,034,043
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	U	004,034,043
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	U	004,034,043
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	U	004,034,043
Chrysene	T149	10:1	0.01	µg/l	U	004,034,043
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	U	004,034,043
Fluoranthene	T149	10:1	0.01	µg/l	U	004,034,043
Fluorene	T149	10:1	0.01	µg/l	U	004,034,043
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	U	004,034,043
Naphthalene	T149	10:1	0.01	µg/l	U	004,034,043
Phenanthrene	T149	10:1	0.01	µg/l	U	004,034,043
Pyrene	T149	10:1	0.01	µg/l	U	004,034,043

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
PAH(total)	T149	10:1	0.01	µg/l	U	004,034,043
PAH (sum of 4)	T85	10:1		µg/l	N	004,034,043
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	U	004,034,043
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	N	004,034,043
TPH (C8-C10) DW	T81	10:1	10	µg/l	U	004,034,043
TPH (C10-C12) DW	T81	10:1	10	µg/l	U	004,034,043
TPH (C12-C16) DW	T81	10:1	10	µg/l	U	004,034,043
TPH (C16-C21) DW	T81	10:1	10	µg/l	U	004,034,043
TPH (C21-C35) DW	T81	10:1	10	µg/l	U	004,034,043
TPH (C35-C40)	T81	10:1	10	µg/l	N	004,034,043
TPH (C8 - C40)	T85	10:1	10	µg/l	N	004,034,043
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	001,023,039,049
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	001,023,039,049
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	001,023,039,049
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	001,023,039,049
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	001,023,039,049
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	001,023,039,049
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	001,023,039,049
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	001,023,039,049
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	U	001,023,039,049
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	001,023,039,049
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	001,023,039,049
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	001,023,039,049
2-Chlorophenol	T207	M105	0.1	mg/kg	M	001,023,039,049
2-methyl phenol	T207	M105	0.1	mg/kg	M	001,023,039,049
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	001,023,039,049
2-Nitroaniline	T207	M105	0.1	mg/kg	M	001,023,039,049
2-Nitrophenol	T207	M105	0.1	mg/kg	U	001,023,039,049
3-Nitroaniline	T207	M105	0.1	mg/kg	U	001,023,039,049
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	001,023,039,049
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	001,023,039,049
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	001,023,039,049
4-Chloroaniline	T207	M105	0.1	mg/kg	U	001,023,039,049
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	001,023,039,049
4-Nitroaniline	T207	M105	0.1	mg/kg	U	001,023,039,049
4-Nitrophenol	T207	M105	0.1	mg/kg	U	001,023,039,049
Acenaphthylene	T207	M105	0.1	mg/kg	U	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Azobenzene	T207	M105	0.1	mg/kg	M	001,023,039,049
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	001,023,039,049
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	001,023,039,049
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	001,023,039,049
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	001,023,039,049
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	001,023,039,049
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	001,023,039,049
Carbazole	T207	M105	0.1	mg/kg	U	001,023,039,049
Chrysene	T207	M105	0.1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	001,023,039,049
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	001,023,039,049
Dibenzofuran	T207	M105	0.1	mg/kg	M	001,023,039,049
Diethyl phthalate	T207	M105	0.1	mg/kg	U	001,023,039,049
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	001,023,039,049
Fluoranthene	T207	M105	0.1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Fluorene	T207	M105	0.1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	001,023,039,049
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	001,023,039,049
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	001,023,039,049
Hexachloroethane	T207	M105	0.1	mg/kg	U	001,023,039,049
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Isophorone	T207	M105	0.1	mg/kg	U	001,023,039,049
Naphthalene	T207	M105	0.1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Nitrobenzene	T207	M105	0.1	mg/kg	M	001,023,039,049
Pentachlorophenol	T207	M105	0.1	mg/kg	U	001,023,039,049
Phenanthrene	T207	M105	0.1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
Phenol	T207	M105	0.1	mg/kg	M	001,023,039,049
Pyrene	T207	M105	0.1	mg/kg	M	001,004,007,010,012-013,015,021,023,029,034,036-037,039,043,047,049
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	M	001,023,039,049
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	M	001,023,039,049
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	U	001,023,039,049

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	M	001,023,039,049
1,1-Dichloroethane	T209	M105	0.050	mg/kg	M	001,023,039,049
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	M	001,023,039,049
1,1-Dichloropropene	T209	M105	0.050	mg/kg	M	001,023,039,049
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	U	001,023,039,049
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	M	001,023,039,049
1,2-dibromoethane	T209	M105	0.050	mg/kg	M	001,023,039,049
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	M	001,023,039,049
1,2-Dichloroethane	T209	M105	0.050	mg/kg	M	001,023,039,049
1,2-Dichloropropane	T209	M105	0.050	mg/kg	M	001,023,039,049
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	M	001,023,039,049
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	M	001,023,039,049
1,3-Dichloropropane	T209	M105	0.050	mg/kg	M	001,023,039,049
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	M	001,023,039,049
2,2-Dichloropropane	T209	M105	0.050	mg/kg	U	001,023,039,049
2-Chlorotoluene	T209	M105	0.050	mg/kg	U	001,023,039,049
4-Chlorotoluene	T209	M105	0.050	mg/kg	U	001,023,039,049
Bromobenzene	T209	M105	0.050	mg/kg	M	001,023,039,049
Bromochloromethane	T209	M105	0.050	mg/kg	M	001,023,039,049
Bromodichloromethane	T209	M105	0.050	mg/kg	M	001,023,039,049
Bromoform	T209	M105	0.050	mg/kg	M	001,023,039,049
Bromomethane	T209	M105	0.050	mg/kg	U	001,023,039,049
Carbon tetrachloride	T209	M105	0.050	mg/kg	M	001,023,039,049
Chlorobenzene	T209	M105	0.050	mg/kg	M	001,023,039,049
Chlorodibromomethane	T209	M105	0.050	mg/kg	M	001,023,039,049
Chloroethane	T209	M105	0.050	mg/kg	M	001,023,039,049
Chloroform	T209	M105	0.050	mg/kg	M	001,023,039,049
Chloromethane	T209	M105	0.050	mg/kg	U	001,023,039,049
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	M	001,023,039,049
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	001,023,039,049
Dibromomethane	T209	M105	0.050	mg/kg	M	001,023,039,049
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	M	001,023,039,049
Dichloromethane	T209	M105	0.050	mg/kg	U	001,023,039,049
Isopropyl benzene	T209	M105	0.050	mg/kg	M	001,023,039,049
n-Propylbenzene	T209	M105	0.050	mg/kg	M	001,023,039,049
p-Isopropyltoluene	T209	M105	0.050	mg/kg	M	001,023,039,049
S-Butylbenzene	T209	M105	0.050	mg/kg	M	001,023,039,049
Styrene	T209	M105	0.050	mg/kg	U	001,023,039,049
T-Butylbenzene	T209	M105	0.050	mg/kg	M	001,023,039,049
Tetrachloroethene	T209	M105	0.050	mg/kg	M	001,023,039,049
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	M	001,023,039,049
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	001,023,039,049
Trichloroethene	T209	M105	0.050	mg/kg	M	001,023,039,049
Trichlorofluoromethane	T209	M105	0.050	mg/kg	M	001,023,039,049
Vinyl chloride	T209	M105	0.050	mg/kg	M	001,023,039,049

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 346303-1

Date of Report: 28-Aug-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 28
Date Job Received at SAL: 09-Aug-2013
Date Analysis Started: 21-Aug-2013
Date Analysis Completed: 28-Aug-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked and authorised by :
Mr Ross Walker
Customer Services Manager (Land)

Issued by :
Mr Ross Walker
Customer Services Manager (Land)

[redacted]

SAL Reference: 346303
Project Site: A63 Castle St - 28
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

SAL Reference	**346303 002**
Customer Sample Reference	**SCPT10 ES 1.0**
Date Sampled	**08-AUG-2013**
Depth	**1.0**
Type	**Clay**

Determinand	Method	Test Sample	LOD	Units	
Moisture @ 105 C	T162	AR	0.1	%	**23**
Moisture	T277	AR	0.1	%	**22**
Asbestos ID	T27	AR			N.D.
pH	T7	AR			**8.5**
Mass Fraction of organic carbon	T286	M40			**0.012**
Arsenic	T6	M40	2	mg/kg	**16**
Boron (water-soluble)	T6	AR	1	mg/kg	<1
Cadmium	T6	M40	1	mg/kg	<1
Chromium	T6	M40	1	mg/kg	**31**
Chromium (trivalent)	T85	AR	2	mg/kg	**31**
Chromium VI	T6	AR	1	mg/kg	<1
Copper	T6	M40	1	mg/kg	**20**
Lead	T6	M40	1	mg/kg	**32**
Mercury	T6	M40	1	mg/kg	<1
Nickel	T6	M40	1	mg/kg	**31**
Selenium	T6	M40	3	mg/kg	<3
Zinc	T6	M40	1	mg/kg	**91**
Cyanide(Total)	T546	AR	1	mg/kg	<1
Cyanide(free)	T546	AR	1	mg/kg	<1
SO4(Total)	T6	M40	0.01	%	**0.08**
Total Phenols	T149	AR	0.01	mg/kg	<0.01
Acenaphthene	T207	M105	0.1	mg/kg	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1
Chrysene	T207	M105	0.1	mg/kg	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1
PAH(total)	T207	M105	0.1	mg/kg	<0.1
TPH (C8-C10)	T8	M105	1	mg/kg	<1
TPH (C10-C12)	T206	M105	1	mg/kg	<1
TPH (C12-C16)	T206	M105	1	mg/kg	<1
TPH (C16-C21)	T206	M105	1	mg/kg	<1
TPH (C21-C35)	T206	M105	1	mg/kg	<1
TPH (C35-C40)	T8	M105	1	mg/kg	<1
TPH (C8 - C40)	T85	M105	1	mg/kg	<1

Index to symbols used in 346303-1

Value	Description
AR	As Received
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.

M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
N.D.	Not Detected
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T7	Probe
T206	GC/FID (MCERTS)
T6	ICP/OES
T207	GC/MS(MCERTS)
T286	Calc TOC/100
T27	PLM
T8	GC/FID
T162	Grav (1 Dec) (105 C)
T85	Calc
T149	GC/MS (SIR)
T277	Grav (1 Dec) (40 C)
T546	Colorimetry (CF)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture @ 105 C	T162	AR	0.1	%	N	002
Moisture	T277	AR	0.1	%	N	002
Asbestos ID	T27	AR			SU	002
pH	T7	AR			M	002
Mass Fraction of organic carbon	T286	M40			N	002
Arsenic	T6	M40	2	mg/kg	M	002
Boron (water-soluble)	T6	AR	1	mg/kg	N	002
Cadmium	T6	M40	1	mg/kg	M	002
Chromium	T6	M40	1	mg/kg	M	002
Chromium (trivalent)	T85	AR	2	mg/kg	N	002
Chromium VI	T6	AR	1	mg/kg	N	002
Copper	T6	M40	1	mg/kg	M	002
Lead	T6	M40	1	mg/kg	M	002
Mercury	T6	M40	1	mg/kg	M	002
Nickel	T6	M40	1	mg/kg	M	002
Selenium	T6	M40	3	mg/kg	M	002
Zinc	T6	M40	1	mg/kg	M	002
Cyanide(Total)	T546	AR	1	mg/kg	M	002
Cyanide(free)	T546	AR	1	mg/kg	M	002
SO4(Total)	T6	M40	0.01	%	N	002
Total Phenols	T149	AR	0.01	mg/kg	U	002
Acenaphthene	T207	M105	0.1	mg/kg	M	002
Acenaphthylene	T207	M105	0.1	mg/kg	U	002
Anthracene	T207	M105	0.1	mg/kg	U	002
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	002
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	002
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	002
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	002
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	002
Chrysene	T207	M105	0.1	mg/kg	M	002
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	002
Fluoranthene	T207	M105	0.1	mg/kg	M	002
Fluorene	T207	M105	0.1	mg/kg	M	002
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	002
Naphthalene	T207	M105	0.1	mg/kg	M	002
Phenanthrene	T207	M105	0.1	mg/kg	M	002
Pyrene	T207	M105	0.1	mg/kg	M	002
PAH(total)	T207	M105	0.1	mg/kg	U	002
TPH (C8-C10)	T8	M105	1	mg/kg	N	002
TPH (C10-C12)	T206	M105	1	mg/kg	M	002
TPH (C12-C16)	T206	M105	1	mg/kg	M	002

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
TPH (C16-C21)	T206	M105	1	mg/kg	M	002
TPH (C21-C35)	T206	M105	1	mg/kg	M	002
TPH (C35-C40)	T8	M105	1	mg/kg	N	002
TPH (C8 - C40)	T85	M105	1	mg/kg	N	002

Scientific Analysis Laboratories is a limited company registered in England and Wales (No 2514788) whose address is at Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
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Report Number: 345667-1

Date of Report: 30-Aug-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Zoe Miller

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 31, 32
Date Job Received at SAL: 15-Aug-2013
Date Analysis Started: 19-Aug-2013
Date Analysis Completed: 30-Aug-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked and authorised by :
Mr Ross Walker
Customer Services Manager (Land)

Issued by :
Mr Ross Walker
Customer Services Manager (Land)

[redacted]

SAL Reference: 345667
Project Site: A63 Castle St - 31, 32
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

					SAL Reference	**345667 001**	**345667 004**	**345667 006**	**345667 008**	**345667 010**	**345667 016**	**345667 017**	**345667 020**
					Customer Sample Reference	**BH05 4.2 ES 010**	**BH42 0.2 ES 001**	**SCPT29 0.5 ES 001**	**BH29 0.5 ES 003**	**BH29 1.5 ES 007**	**BH05 1.5 ES 001**	**BH05 2 ES 003**	**SCPT30 0.5 ES 001**
					Date Sampled	**14-AUG-2013**	**14-AUG-2013**	**14-AUG-2013**	**14-AUG-2013**	**14-AUG-2013**	**14-AUG-2013**	**14-AUG-2013**	**14-AUG-2013**
					Depth	**4.2**	**0.2**	**0.5**	**0.5**	**1.5**	**1.5**	**2.0**	**0.5**
					Type	**Clay**	**Sandy Soil**	**Topsoil**	**Fill**	**Sandy Soil**	**Fill**	**Clay**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
Moisture @ 105 C	T162	AR	0.1	%		**29**	**3.3**	**18**	**14**	**13**	**12**	**26**	**19**
Moisture	T277	AR	0.1	%		**29**	**2.8**	**17**	**13**	**14**	**11**	**24**	**18**
Asbestos ID	T27	AR				-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Chrysotile Detected -
pH	T7	AR				**8.1**	**8.7**	**8.5**	**8.2**	**8.2**	**8.4**	**8.3**	**8.0**
Mass Fraction of organic carbon	T286	M40				**0.74**	-	**2.1**	-	**0.79**	-	**1.0**	-
Arsenic	T6	M40	2	mg/kg		**9**	**9**	**15**	**7.4**	**7**	**4.7**	**12**	**19**
Boron (water-soluble)	T6	AR	1	mg/kg		<1	<1	**1**	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg		<1	**2**	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg		**19**	**5**	**36**	**8**	**13**	**10**	**33**	**50**
Chromium (trivalent)	T85	AR	2	mg/kg		**19**	**5**	**36**	**8**	**13**	**10**	**33**	**50**
Chromium VI	T6	AR	1	mg/kg		<1	<1	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg		**12**	**11**	**36**	**24**	**14**	**10**	**19**	**66**
Lead	T6	M40	1	mg/kg		**12**	**21**	**78**	**65**	**30**	**29**	**27**	**100**
Mercury	T6	M40	1	mg/kg		<1	<1	<1	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg		**19**	**7**	**29**	**9**	**14**	**9**	**32**	**31**
Selenium	T6	M40	3	mg/kg		<3	<3	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg		**48**	**150**	**140**	**56**	**46**	**53**	**90**	**170**
Cyanide(Total)	T546	AR	1	mg/kg		<1	<1	<1	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg		<1	<1	<1	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%		**0.85**	**0.09**	**0.16**	**0.10**	**0.14**	**0.13**	**0.08**	**0.18**
Total Phenols	T149	AR	0.01	mg/kg		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	T207	M105	0.1	mg/kg		<0.1	<0.1	<0.1	**0.6**	**0.2**	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg		<0.1	<0.1	<0.1	**0.4**	**0.1**	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg		<0.1	<0.1	<0.1	**3.1**	**0.8**	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg		<0.1	**0.2**	<0.1	**4.9**	**2.2**	<0.1	<0.1	**0.4**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg		<0.1	<0.1	<0.1	**2.8**	**1.5**	<0.1	<0.1	**0.3**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg		<0.1	<0.1	<0.1	**3.0**	**1.3**	<0.1	<0.1	**0.4**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg		<0.1	<0.1	<0.1	**1.4**	**0.7**	<0.1	<0.1	**0.3**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg		<0.1	<0.1	<0.1	**3.5**	**1.6**	<0.1	<0.1	**0.4**
Chrysene	T207	M105	0.1	mg/kg		<0.1	**0.2**	**0.1**	**5.0**	**2.3**	<0.1	<0.1	**0.6**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg		<0.1	<0.1	<0.1	**0.4**	**0.2**	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg		<0.1	**0.4**	**0.3**	**12**	**6.1**	**0.2**	<0.1	**1.0**
Fluorene	T207	M105	0.1	mg/kg		<0.1	<0.1	<0.1	**1.3**	**0.4**	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg		<0.1	<0.1	<0.1	**1.4**	**0.7**	<0.1	<0.1	**0.2**
Naphthalene	T207	M105	0.1	mg/kg		<0.1	<0.1	<0.1	**2.4**	**0.5**	**0.9**	<0.1	**0.3**
Phenanthrene	T207	M105	0.1	mg/kg		<0.1	<0.1	**0.1**	**8.0**	**3.2**	<0.1	<0.1	**0.5**
Pyrene	T207	M105	0.1	mg/kg		<0.1	**0.5**	**0.3**	**11**	**5.4**	**0.3**	<0.1	**1.0**
PAH(total)	T207	M105	0.1	mg/kg		<0.1	**1.3**	**0.8**	**3.5**	**27**	<0.1	<0.1	**5.4**
TPH (C8-C10)	T8	M105	1	mg/kg		<1	(100) <10	(100) <10	-	<1	-	<1	-
TPH (C10-C12)	T206	M105	1	mg/kg		<1	(100) <10	(100) <10	-	<1	-	<1	-
TPH (C12-C16)	T206	M105	1	mg/kg		<1	(100) <10	(100) <10	-	**5**	-	<1	-
TPH (C16-C21)	T206	M105	1	mg/kg		<1	(100) <10	**12**	-	**9**	-	<1	-
TPH (C21-C35)	T206	M105	1	mg/kg		<1	(100) <10	**13**	-	**16**	-	<1	-
TPH (C35-C40)	T8	M105	1	mg/kg		<1	(100) <10	(100) <10	-	<1	-	<1	-
TPH (C8 - C40)	T85	M105	1	mg/kg		<1	(100) <10	**25**	-	**30**	-	<1	-
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg		-	-	-	<0.100	-	<0.100	-	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg		-	-	-	<0.10	-	<0.10	-	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg		-	-	-	<0.10	-	**18**	-	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg		-	-	-	<1	-	**19**	-	<1
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg		-	-	-	<2	-	(9) <10	-	<2
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg		-	-	-	**3**	-	(9) <10	-	**1**
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg		-	-	-	<4	-	**160**	-	<4

SAL Reference: 345667
Project Site: A63 Castle St - 31, 32
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**345667 001**	**345667 004**	**345667 006**	**345667 008**	**345667 010**	**345667 016**	**345667 017**	**345667 020**
				Customer Sample Reference	**BH05 4.2 ES 010**	**BH42 0.2 ES 001**	**SCPT29 0.5 ES 001**	**BH29 0.5 ES 003**	**BH29 1.5 ES 007**	**BH05 1.5 ES 001**	**BH05 2 ES 003**	**SCPT30 0.5 ES 001**
				Date Sampled	**14-AUG-2013**	**14-AUG-2013**	**14-AUG-2013**	**14-AUG-2013**	**14-AUG-2013**	**14-AUG-2013**	**14-AUG-2013**	**14-AUG-2013**
				Depth	**4.2**	**0.2**	**0.5**	**0.5**	**1.5**	**1.5**	**2.0**	**0.5**
				Type	**Clay**	**Sandy Soil**	**Topsoil**	**Fill**	**Sandy Soil**	**Fill**	**Clay**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	-	-	-	<1	-	**101**	-	<1
TPH (Aliphatic) total	T85	M105		mg/kg	-	-	-	**3.0**	-	**300**	-	**1.0**
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	-	<0.10	-	<0.10
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	-	<0.10	-	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	-	-	-	**0.12**	-	**68**	-	**0.14**
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	-	-	-	<1	-	(9) <10	-	<1
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	-	-	-	**11**	-	(9) <10	-	<1
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	-	-	-	**69**	-	(9) <10	-	**1**
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	-	-	-	**100**	-	**99**	-	**3**
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	-	-	-	**17**	-	**73**	-	<1
TPH (Aromatic) total	T85	M105		mg/kg	-	-	-	**200**	-	**240**	-	**4.1**
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	-	-	-	**200**	-	**540**	-	**4.1**
Benzene	T209	M105	0.0100	mg/kg	-	-	-	<0.0100	-	<0.0100	-	<0.0100
Toluene	T209	M105	0.0100	mg/kg	-	-	-	<0.0100	-	<0.0100	-	**0.016**
EthylBenzene	T209	M105	0.0100	mg/kg	-	-	-	<0.0100	-	**0.012**	-	<0.0100
Methyl tert-Butyl Ether	T209	M105	0.0100	mg/kg	-	-	-	<0.0100	-	<0.0100	-	<0.0100
O Xylene	T209	M105	0.0100	mg/kg	-	-	-	**0.017**	-	**2.0**	-	**0.018**
M/P Xylene	T209	M105	0.0100	mg/kg	-	-	-	**0.014**	-	**0.42**	-	**0.037**
PCB BZ#101	T1	M105	0.00005	mg/kg	-	-	-	<0.00005	-	-	-	<0.00005
PCB BZ#118	T1	M105	0.00005	mg/kg	-	-	-	<0.00005	-	-	-	<0.00005
PCB BZ#138	T1	M105	0.00005	mg/kg	-	-	-	<0.00005	-	-	-	<0.00005
PCB BZ#153	T1	M105	0.00005	mg/kg	-	-	-	<0.00005	-	-	-	<0.00005
PCB BZ#180	T1	M105	0.00005	mg/kg	-	-	-	<0.00005	-	-	-	<0.00005
PCB BZ#28	T1	M105	0.00005	mg/kg	-	-	-	<0.00005	-	-	-	<0.00005
PCB BZ#52	T1	M105	0.00005	mg/kg	-	-	-	<0.00005	-	-	-	<0.00005

SAL Reference: 345667
Project Site: A63 Castle St - 31, 32
Customer Reference: 112630

Soil Analysed as Soil

Volatile Organic Compounds (USEPA 624) (MCERTS)

				SAL Reference	**345667 008**	**345667 016**	**345667 020**
				Customer Sample Reference	**BH29 0.5 ES 003**	**BH05 1.5 ES 001**	**SCPT30 0.5 ES 001**
				Date Sampled	**14-AUG-2013**	**14-AUG-2013**	**14-AUG-2013**
				Depth	**0.5**	**1.5**	**0.5**
				Type	**Fill**	**Fill**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	**17**	<0.050
1,2-dibromoethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	**11**	<0.050
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,3-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
2,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
2-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
4-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Benzene	T209	M105	0.0100	mg/kg	<0.0100	<0.0100	<0.0100
Bromobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Bromochloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Bromodichloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Bromoform	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Bromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Carbon tetrachloride	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Chlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Chlorodibromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Chloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Chloroform	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Chloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Dibromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Dichloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
EthylBenzene	T209	M105	0.0100	mg/kg	<0.0100	**0.012**	<0.0100
Isopropyl benzene	T209	M105	0.050	mg/kg	<0.050	**0.33**	<0.050
M/P Xylene	T209	M105	0.0100	mg/kg	**0.014**	**0.42**	**0.037**
n-Propylbenzene	T209	M105	0.050	mg/kg	<0.050	**0.82**	<0.050
O Xylene	T209	M105	0.0100	mg/kg	**0.017**	**2.0**	**0.018**
p-Isopropyltoluene	T209	M105	0.050	mg/kg	<0.050	**0.31**	<0.050
S-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	**0.51**	<0.050
Styrene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
T-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	**2.1**	<0.050
Tetrachloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Toluene	T209	M105	0.0100	mg/kg	<0.0100	<0.0100	**0.016**
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Trichloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Trichlorofluoromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Vinyl chloride	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050

SAL Reference: 345667
Project Site: A63 Castle St - 31, 32
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

				SAL Reference	**345667 008**	**345667 016**	**345667 020**
				Customer Sample Reference	**BH29 0.5 ES 003**	**BH05 1.5 ES 001**	**SCPT30 0.5 ES 001**
				Date Sampled	**14-AUG-2013**	**14-AUG-2013**	**14-AUG-2013**
				Depth	**0.5**	**1.5**	**0.5**
				Type	**Fill**	**Fill**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	**0.5**	<0.1	**0.3**
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	**0.6**	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	**0.4**	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	**3.1**	<0.1	<0.1
Azobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**4.9**	<0.1	**0.4**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**2.8**	<0.1	**0.3**
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	**6.5**	<0.1	**0.8**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**1.4**	<0.1	**0.3**
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	**0.2**	**0.4**	**0.8**
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Carbazole	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	**5.0**	<0.1	**0.6**
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	**0.4**	<0.1	<0.1
Dibenzofuran	T207	M105	0.1	mg/kg	**0.7**	<0.1	<0.1
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**12**	**0.2**	**1.0**
Fluorene	T207	M105	0.1	mg/kg	**1.3**	<0.1	<0.1
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**1.4**	<0.1	**0.2**
Isophorone	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	**2.4**	**0.9**	**0.3**
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**8.0**	<0.1	**0.5**

SAL Reference: 345667
Project Site: A63 Castle St - 31, 32
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

				SAL Reference	**345667 008**	**345667 016**	**345667 020**
				Customer Sample Reference	**BH29 0.5 ES 003**	**BH05 1.5 ES 001**	**SCPT30 0.5 ES 001**
				Date Sampled	**14-AUG-2013**	**14-AUG-2013**	**14-AUG-2013**
				Depth	**0.5**	**1.5**	**0.5**
				Type	**Fill**	**Fill**	**Topsoil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	**11**	**0.3**	**1.0**

SAL Reference: 345667
Project Site: A63 Castle St - 31, 32
Customer Reference: 112630

Leachate to BS EN 12457-2 (10:1) Analysed as Water
Grontmij A63 Hull Leachate Suite

SAL Reference	**345667 010**
Customer Sample Reference	**BH29 1.5 ES 007**
Date Sampled	**14-AUG-2013**
Depth	**1.5**
Type	**Sandy Soil**

Determinand	Method	Test Sample	LOD	Units	
pH	T7	10:1			**8.1**
As (Dissolved)	T281	10:1	0.2	µg/l	**0.4**
Boron	T6	10:1	10	µg/l	**22**
Cd (Dissolved)	T281	10:1	0.02	µg/l	<0.02
Cr (Dissolved)	T281	10:1	1	µg/l	<1
Chromium (trivalent)	T85	10:1	3	µg/l	<3
Chromium VI	T686	10:1	3	µg/l	<3
Cu (Dissolved)	T281	10:1	0.5	µg/l	**2.0**
Pb (Dissolved)	T281	10:1	0.3	µg/l	<0.3
Hg (Dissolved)	T281	10:1	0.05	µg/l	<0.05
Ni (Dissolved)	T281	10:1	1	µg/l	<1
Se (Dissolved)	T281	10:1	0.5	µg/l	**1.2**
Zn (Dissolved)	T281	10:1	2	µg/l	<2
Sulphate	T686	10:1	0.5	mg/l	**24**
Sulphide	T4	10:1	0.05	mg/l	<0.05
Sulphur (total)	T65	10:1	0.01	mg/l	**26**
Total Phenols	T16	10:1	0.5	µg/l	(100) <0.7
Cyanide(Total)	T220	10:1	10	µg/l	<10
Cyanide(free)	T220	10:1	10	µg/l	<10
Acenaphthene	T149	10:1	0.01	µg/l	**1.0**
Acenaphthylene	T149	10:1	0.01	µg/l	**0.81**
Anthracene	T149	10:1	0.01	µg/l	**0.04**
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	**0.04**
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	**0.08**
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	**0.11**
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	(110) <0.10
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	**0.07**
Chrysene	T149	10:1	0.01	µg/l	**0.05**
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	(110) <0.10
Fluoranthene	T149	10:1	0.01	µg/l	**0.06**
Fluorene	T149	10:1	0.01	µg/l	**0.39**
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	**0.10**
Naphthalene	T149	10:1	0.01	µg/l	**0.76**
Phenanthrene	T149	10:1	0.01	µg/l	**0.11**
Pyrene	T149	10:1	0.01	µg/l	**0.04**
PAH(total)	T149	10:1	0.01	µg/l	**3.7**
PAH (sum of 4)	T85	10:1		µg/l	**0.28**
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	**0.18**
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	**0.10**
TPH (C8-C10) DW	T81	10:1	10	µg/l	<10
TPH (C10-C12) DW	T81	10:1	10	µg/l	**14**
TPH (C12-C16) DW	T81	10:1	10	µg/l	**40**
TPH (C16-C21) DW	T81	10:1	10	µg/l	**12**
TPH (C21-C35) DW	T81	10:1	10	µg/l	<10
TPH (C35-C40)	T81	10:1	10	µg/l	<10
TPH (C8 - C40)	T85	10:1	10	µg/l	**60**

Index to symbols used in 345667-1

Value	Description
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
10:1	Leachate to BS EN 12457-2 (10:1)
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.

AR	As Received
N.D.	Not Detected
100	LOD determined by sample aliquot used for analysis
9	LOD raised due to dilution of sample
110	LOD raised due to low internal standard recovery.
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

"Fill" samples are outside the scope of our MCERTS accreditation. Results are UKAS only

Method Index

Value	Description
T1	GC/MS (HR)
T149	GC/MS (SIR)
T85	Calc
T207	GC/MS(MCERTS)
T206	GC/FID (MCERTS)
T27	PLM
T8	GC/FID
T277	Grav (1 Dec) (40 C)
T220	Colorimetry (SD)
T546	Colorimetry (CF)
T281	ICP/MS (Filtered)
T6	ICP/OES
T4	Colorimetry
T81	GC/FID (LV)
T209	GC/MS(Head Space)(MCERTS)
T7	Probe
T65	ICP/OES (Preconc.)
T162	Grav (1 Dec) (105 C)
T16	GC/MS
T686	Discrete Analyser
T286	Calc TOC/100

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture @ 105 C	T162	AR	0.1	%	N	001,004,006,008,010,016-017,020
Moisture	T277	AR	0.1	%	N	001,004,006,008,010,016-017,020
Asbestos ID	T27	AR			SU	004,006,008,010,016-017,020
pH	T7	AR			M	001,004,006,010,017,020
pH	T7	AR			U	008,016
Mass Fraction of organic carbon	T286	M40			N	001,006,010,017
Arsenic	T6	M40	2	mg/kg	M	001,004,006,010,017,020
Arsenic	T6	M40	2.0	mg/kg	U	008,016
Boron (water-soluble)	T6	AR	1	mg/kg	N	001,004,006,008,010,016-017,020
Cadmium	T6	M40	1	mg/kg	M	001,004,006,010,017,020
Cadmium	T6	M40	1	mg/kg	U	008,016
Chromium	T6	M40	1	mg/kg	M	001,004,006,010,017,020
Chromium	T6	M40	1	mg/kg	U	008,016
Chromium (trivalent)	T85	AR	2	mg/kg	N	001,004,006,008,010,016-017,020
Chromium VI	T6	AR	1	mg/kg	N	001,004,006,008,010,016-017,020
Copper	T6	M40	1	mg/kg	M	001,004,006,010,017,020
Copper	T6	M40	1	mg/kg	U	008,016
Lead	T6	M40	1	mg/kg	M	001,004,006,010,017,020
Lead	T6	M40	1	mg/kg	U	008,016
Mercury	T6	M40	1	mg/kg	M	001,004,006,010,017,020
Mercury	T6	M40	1	mg/kg	U	008,016
Nickel	T6	M40	1	mg/kg	M	001,004,006,010,017,020
Nickel	T6	M40	1	mg/kg	U	008,016
Selenium	T6	M40	3	mg/kg	M	001,004,006,010,017,020
Selenium	T6	M40	3	mg/kg	U	008,016
Zinc	T6	M40	1	mg/kg	M	001,004,006,010,017,020

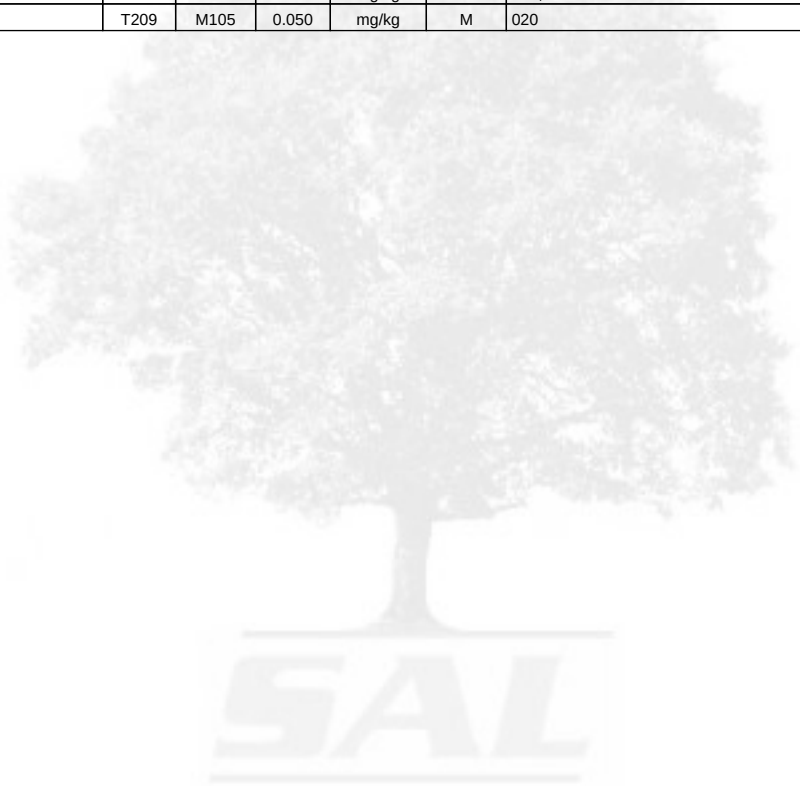
Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Zinc	T6	M40	1	mg/kg	U	008,016
Cyanide(Total)	T546	AR	1	mg/kg	M	001,004,006,010,017,020
Cyanide(Total)	T546	AR	1	mg/kg	U	008,016
Cyanide(free)	T546	AR	1	mg/kg	M	001,004,006,010,017,020
Cyanide(free)	T546	AR	1	mg/kg	U	008,016
SO4(Total)	T6	M40	0.01	%	N	001,004,006,008,010,016-017,020
Total Phenols	T149	AR	0.01	mg/kg	U	001,004,006,008,010,016-017,020
Acenaphthene	T207	M105	0.1	mg/kg	M	001,004,006,010,017,020
Acenaphthylene	T207	M105	0.1	mg/kg	U	001,004,006,008,010,016-017,020
Anthracene	T207	M105	0.1	mg/kg	U	001,004,006,008,010,016-017,020
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	001,004,006,010,017,020
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	U	008,016
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	001,004,006,010,017,020
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	U	008,016
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	001,004,006,010,017,020
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	U	008,016
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	001,004,006,010,017,020
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	U	008,016
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	001,004,006,010,017,020
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	U	008,016
Chrysene	T207	M105	0.1	mg/kg	M	001,004,006,010,017,020
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	001,004,006,010,017,020
Fluoranthene	T207	M105	0.1	mg/kg	M	001,004,006,010,017,020
Fluorene	T207	M105	0.1	mg/kg	M	001,004,006,010,017,020
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	001,004,006,010,017,020
Naphthalene	T207	M105	0.1	mg/kg	M	001,004,006,010,017,020
Naphthalene	T207	M105	0.1	mg/kg	U	008,016
Phenanthrene	T207	M105	0.1	mg/kg	M	001,004,006,010,017,020
Phenanthrene	T207	M105	0.1	mg/kg	U	008,016
Pyrene	T207	M105	0.1	mg/kg	M	001,004,006,010,017,020
Pyrene	T207	M105	0.1	mg/kg	U	008,016
PAH(total)	T207	M105	0.1	mg/kg	U	001,004,006,008,010,016-017,020
TPH (C8-C10)	T8	M105	1	mg/kg	N	001,004,006,010,017
TPH (C10-C12)	T206	M105	1	mg/kg	M	001,004,006,010,017
TPH (C12-C16)	T206	M105	1	mg/kg	M	001,004,006,010,017
TPH (C16-C21)	T206	M105	1	mg/kg	M	001,004,006,010,017
TPH (C21-C35)	T206	M105	1	mg/kg	M	001,004,006,010,017
TPH (C35-C40)	T8	M105	1	mg/kg	N	001,004,006,010,017
TPH (C8 - C40)	T85	M105	1	mg/kg	N	001,004,006,010,017
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	N	008,016,020
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	N	008,016,020
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	N	008,016,020
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	U	008,016
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	M	020
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	U	008,016
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	M	020
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	U	008,016
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	M	020
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	U	008,016
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	M	020
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	N	008,016,020
TPH (Aliphatic) total	T85	M105		mg/kg	N	008,016,020
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	N	008,016,020
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	N	008,016,020
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	N	008,016,020
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	U	008,016
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	M	020
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	U	008,016
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	M	020
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	U	008,016
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	M	020
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	U	008,016
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	M	020
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	N	008,016,020
TPH (Aromatic) total	T85	M105		mg/kg	N	008,016,020
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N	008,016,020
Toluene	T209	M105	0.010	mg/kg	M	020
EthylBenzene	T209	M105	0.010	mg/kg	U	008,016
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	U	008,016
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	M	020

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
M/P Xylene	T209	M105	0.010	mg/kg	U	008,016
M/P Xylene	T209	M105	0.010	mg/kg	M	020
PCB BZ#101	T1	M105	0.00005	mg/kg	U	008
PCB BZ#101	T1	M105	0.00005	mg/kg	M	020
PCB BZ#118	T1	M105	0.00005	mg/kg	U	008
PCB BZ#118	T1	M105	0.00005	mg/kg	M	020
PCB BZ#138	T1	M105	0.00005	mg/kg	U	008
PCB BZ#138	T1	M105	0.00005	mg/kg	M	020
PCB BZ#153	T1	M105	0.00005	mg/kg	U	008
PCB BZ#153	T1	M105	0.00005	mg/kg	M	020
PCB BZ#180	T1	M105	0.00005	mg/kg	U	008
PCB BZ#180	T1	M105	0.00005	mg/kg	M	020
PCB BZ#28	T1	M105	0.00005	mg/kg	U	008
PCB BZ#28	T1	M105	0.00005	mg/kg	M	020
PCB BZ#52	T1	M105	0.00005	mg/kg	U	008
PCB BZ#52	T1	M105	0.00005	mg/kg	M	020
pH	T7	10:1			U	010
As (Dissolved)	T281	10:1	0.2	µg/l	U	010
Boron	T6	10:1	10	µg/l	N	010
Cd (Dissolved)	T281	10:1	0.02	µg/l	U	010
Cr (Dissolved)	T281	10:1	1	µg/l	U	010
Chromium (trivalent)	T85	10:1	3	µg/l	N	010
Chromium VI	T686	10:1	3	µg/l	U	010
Cu (Dissolved)	T281	10:1	0.5	µg/l	U	010
Pb (Dissolved)	T281	10:1	0.3	µg/l	U	010
Hg (Dissolved)	T281	10:1	0.05	µg/l	U	010
Ni (Dissolved)	T281	10:1	1	µg/l	U	010
Se (Dissolved)	T281	10:1	0.5	µg/l	U	010
Zn (Dissolved)	T281	10:1	2	µg/l	U	010
Sulphate	T686	10:1	0.5	mg/l	U	010
Sulphide	T4	10:1	0.05	mg/l	N	010
Sulphur (total)	T65	10:1	0.01	mg/l	N	010
Total Phenols	T16	10:1	0.5	µg/l	U	010
Cyanide(Total)	T220	10:1	10	µg/l	U	010
Cyanide(free)	T220	10:1	10	µg/l	N	010
Acenaphthene	T149	10:1	0.01	µg/l	U	010
Acenaphthylene	T149	10:1	0.01	µg/l	U	010
Anthracene	T149	10:1	0.01	µg/l	U	010
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	U	010
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	U	010
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	U	010
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	U	010
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	U	010
Chrysene	T149	10:1	0.01	µg/l	U	010
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	U	010
Fluoranthene	T149	10:1	0.01	µg/l	U	010
Fluorene	T149	10:1	0.01	µg/l	U	010
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	U	010
Naphthalene	T149	10:1	0.01	µg/l	U	010
Phenanthrene	T149	10:1	0.01	µg/l	U	010
Pyrene	T149	10:1	0.01	µg/l	U	010
PAH(total)	T149	10:1	0.01	µg/l	U	010
PAH (sum of 4)	T85	10:1		µg/l	N	010
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	U	010
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	N	010
TPH (C8-C10) DW	T81	10:1	10	µg/l	U	010
TPH (C10-C12) DW	T81	10:1	10	µg/l	U	010
TPH (C12-C16) DW	T81	10:1	10	µg/l	U	010
TPH (C16-C21) DW	T81	10:1	10	µg/l	U	010
TPH (C21-C35) DW	T81	10:1	10	µg/l	U	010
TPH (C35-C40)	T81	10:1	10	µg/l	N	010
TPH (C8 - C40)	T85	10:1	10	µg/l	N	010
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	U	008,016
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	020
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	U	008,016
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	020
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	U	008,016
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	020
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	U	008,016
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	020

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	008,016,020
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	008,016,020
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	008,016,020
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	008,016,020
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	U	008,016,020
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	U	008,016
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	020
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	008,016,020
2-Chloronaphthalene	T207	M105	0.1	mg/kg	U	008,016
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	020
2-Chlorophenol	T207	M105	0.1	mg/kg	U	008,016
2-Chlorophenol	T207	M105	0.1	mg/kg	M	020
2-methyl phenol	T207	M105	0.1	mg/kg	U	008,016
2-methyl phenol	T207	M105	0.1	mg/kg	M	020
2-Methylnaphthalene	T207	M105	0.1	mg/kg	U	008,016
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	020
2-Nitroaniline	T207	M105	0.1	mg/kg	U	008,016
2-Nitroaniline	T207	M105	0.1	mg/kg	M	020
2-Nitrophenol	T207	M105	0.1	mg/kg	U	008,016,020
3-Nitroaniline	T207	M105	0.1	mg/kg	U	008,016,020
3/4-Methylphenol	T207	M105	0.1	mg/kg	U	008,016
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	020
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	U	008,016
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	020
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	U	008,016
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	020
4-Chloroaniline	T207	M105	0.1	mg/kg	U	008,016,020
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	U	008,016
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	020
4-Nitroaniline	T207	M105	0.1	mg/kg	U	008,016,020
4-Nitrophenol	T207	M105	0.1	mg/kg	U	008,016,020
Acenaphthene	T207	M105	0.1	mg/kg	U	008,016
Azobenzene	T207	M105	0.1	mg/kg	U	008,016
Azobenzene	T207	M105	0.1	mg/kg	M	020
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	U	008,016
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	020
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	U	008,016
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	020
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	U	008,016
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	020
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	U	008,016
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	020
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	U	008,016
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	020
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	008,016,020
Carbazole	T207	M105	0.1	mg/kg	U	008,016,020
Chrysene	T207	M105	0.1	mg/kg	U	008,016
Di-n-butylphthalate	T207	M105	0.1	mg/kg	U	008,016
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	020
Di-n-octylphthalate	T207	M105	0.1	mg/kg	U	008,016
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	020
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	U	008,016
Dibenzofuran	T207	M105	0.1	mg/kg	U	008,016
Dibenzofuran	T207	M105	0.1	mg/kg	M	020
Diethyl phthalate	T207	M105	0.1	mg/kg	U	008,016,020
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	008,016,020
Fluoranthene	T207	M105	0.1	mg/kg	U	008,016
Fluorene	T207	M105	0.1	mg/kg	U	008,016
Hexachlorobenzene	T207	M105	0.1	mg/kg	U	008,016
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	020
Hexachlorobutadiene	T207	M105	0.1	mg/kg	U	008,016
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	020
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	008,016,020
Hexachloroethane	T207	M105	0.1	mg/kg	U	008,016,020
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	U	008,016
Isophorone	T207	M105	0.1	mg/kg	U	008,016,020
Nitrobenzene	T207	M105	0.1	mg/kg	U	008,016
Nitrobenzene	T207	M105	0.1	mg/kg	M	020
Pentachlorophenol	T207	M105	0.1	mg/kg	U	008,016,020
Phenol	T207	M105	0.1	mg/kg	U	008,016

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Phenol	T207	M105	0.1	mg/kg	M	020
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	U	008,016
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	M	020
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	U	008,016
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	M	020
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	U	008,016,020
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	U	008,016
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	M	020
1,1-Dichloroethane	T209	M105	0.050	mg/kg	U	008,016
1,1-Dichloroethane	T209	M105	0.050	mg/kg	M	020
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	U	008,016
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	M	020
1,1-Dichloropropene	T209	M105	0.050	mg/kg	U	008,016
1,1-Dichloropropene	T209	M105	0.050	mg/kg	M	020
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	U	008,016,020
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	U	008,016
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	M	020
1,2-dibromoethane	T209	M105	0.050	mg/kg	U	008,016
1,2-dibromoethane	T209	M105	0.050	mg/kg	M	020
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	U	008,016
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	M	020
1,2-Dichloroethane	T209	M105	0.050	mg/kg	U	008,016
1,2-Dichloroethane	T209	M105	0.050	mg/kg	M	020
1,2-Dichloropropane	T209	M105	0.050	mg/kg	U	008,016
1,2-Dichloropropane	T209	M105	0.050	mg/kg	M	020
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	U	008,016
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	M	020
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	U	008,016
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	M	020
1,3-Dichloropropane	T209	M105	0.050	mg/kg	U	008,016
1,3-Dichloropropane	T209	M105	0.050	mg/kg	M	020
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	U	008,016
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	M	020
2,2-Dichloropropane	T209	M105	0.050	mg/kg	U	008,016,020
2-Chlorotoluene	T209	M105	0.050	mg/kg	U	008,016,020
4-Chlorotoluene	T209	M105	0.050	mg/kg	U	008,016,020
Benzene	T209	M105	0.010	mg/kg	U	008,016
Benzene	T209	M105	0.010	mg/kg	M	020
Bromobenzene	T209	M105	0.050	mg/kg	U	008,016
Bromobenzene	T209	M105	0.050	mg/kg	M	020
Bromochloromethane	T209	M105	0.050	mg/kg	U	008,016
Bromochloromethane	T209	M105	0.050	mg/kg	M	020
Bromodichloromethane	T209	M105	0.050	mg/kg	U	008,016
Bromodichloromethane	T209	M105	0.050	mg/kg	M	020
Bromoform	T209	M105	0.050	mg/kg	U	008,016
Bromoform	T209	M105	0.050	mg/kg	M	020
Bromomethane	T209	M105	0.050	mg/kg	U	008,016,020
Carbon tetrachloride	T209	M105	0.050	mg/kg	U	008,016
Carbon tetrachloride	T209	M105	0.050	mg/kg	M	020
Chlorobenzene	T209	M105	0.050	mg/kg	U	008,016
Chlorobenzene	T209	M105	0.050	mg/kg	M	020
Chlorodibromomethane	T209	M105	0.050	mg/kg	U	008,016
Chlorodibromomethane	T209	M105	0.050	mg/kg	M	020
Chloroethane	T209	M105	0.050	mg/kg	U	008,016
Chloroethane	T209	M105	0.050	mg/kg	M	020
Chloroform	T209	M105	0.050	mg/kg	U	008,016
Chloroform	T209	M105	0.050	mg/kg	M	020
Chloromethane	T209	M105	0.050	mg/kg	U	008,016,020
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	U	008,016
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	M	020
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	U	008,016
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	020
Dibromomethane	T209	M105	0.050	mg/kg	U	008,016
Dibromomethane	T209	M105	0.050	mg/kg	M	020
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	U	008,016
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	M	020
Dichloromethane	T209	M105	0.050	mg/kg	U	008,016,020
EthylBenzene	T209	M105	0.010	mg/kg	M	020
Isopropyl benzene	T209	M105	0.050	mg/kg	U	008,016
Isopropyl benzene	T209	M105	0.050	mg/kg	M	020

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
n-Propylbenzene	T209	M105	0.050	mg/kg	U	008,016
n-Propylbenzene	T209	M105	0.050	mg/kg	M	020
O Xylene	T209	M105	0.010	mg/kg	U	008,016
O Xylene	T209	M105	0.010	mg/kg	M	020
p-Isopropyltoluene	T209	M105	0.050	mg/kg	U	008,016
p-Isopropyltoluene	T209	M105	0.050	mg/kg	M	020
S-Butylbenzene	T209	M105	0.050	mg/kg	U	008,016
S-Butylbenzene	T209	M105	0.050	mg/kg	M	020
Styrene	T209	M105	0.050	mg/kg	U	008,016,020
T-Butylbenzene	T209	M105	0.050	mg/kg	U	008,016
T-Butylbenzene	T209	M105	0.050	mg/kg	M	020
Tetrachloroethene	T209	M105	0.050	mg/kg	U	008,016
Tetrachloroethene	T209	M105	0.050	mg/kg	M	020
Toluene	T209	M105	0.010	mg/kg	U	008,016
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	U	008,016
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	M	020
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	U	008,016
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	020
Trichloroethene	T209	M105	0.050	mg/kg	U	008,016
Trichloroethene	T209	M105	0.050	mg/kg	M	020
Trichlorofluoromethane	T209	M105	0.050	mg/kg	U	008,016
Trichlorofluoromethane	T209	M105	0.050	mg/kg	M	020
Vinyl chloride	T209	M105	0.050	mg/kg	U	008,016
Vinyl chloride	T209	M105	0.050	mg/kg	M	020



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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 345915-1

Date of Report: 30-Aug-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 33
Date Job Received at SAL: 16-Aug-2013
Date Analysis Started: 21-Aug-2013
Date Analysis Completed: 30-Aug-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked and authorised by :
Mr Ross Walker
Customer Services Manager (Land)

Issued by :
Mr Ross Walker
Customer Services Manager (Land)

[redacted]

SAL Reference: 345915
Project Site: A63 Castle St - 33
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**345915 004**	**345915 014**	**345915 019**	**345915 020**
				Customer Sample Reference	**BH42 ES 007 3.0**	**BH29 ES 016 4.0**	**SCPT23 ES 001 0.5**	**BH24 ES 001 0.2**
				Top Depth	**3.0**	**4.0**	**0.5**	**0.2**
				Date Sampled	**15-AUG-2013**	**15-AUG-2013**	**15-AUG-2013**	**15-AUG-2013**
				Type	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Moisture @ 105 C	T162	AR	0.1	%	**25**	**24**	**15**	**11**
Moisture	T277	AR	0.1	%	**25**	**22**	**15**	**10**
Asbestos ID	T27	AR			N.D.	-	N.D.	N.D.
pH	T7	AR			**7.8**	**7.9**	**8.1**	**8.1**
Mass Fraction of organic carbon	T286	M40			-	**0.0057**	**0.035**	-
Arsenic	T6	M40	2	mg/kg	**11**	**9**	**20**	**22**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**25**	**23**	**24**	**25**
Chromium (trivalent)	T85	AR	2	mg/kg	**25**	**23**	**24**	**25**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**20**	**13**	**81**	**100**
Lead	T6	M40	1	mg/kg	**40**	**14**	**1300**	**520**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**23**	**20**	**27**	**26**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**67**	**53**	**260**	**290**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.27**	**0.08**	**0.16**	**0.18**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01	**1.3**	**2.9**
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	**3.3**	**25**
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.4**	**4.6**
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**7.1**	**54**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**13**	**73**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**6.6**	**74**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	**5.6**	**72**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	**3.6**	**25**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	**4.6**	**68**
Chrysene	T207	M105	0.1	mg/kg	<0.1	<0.1	**7.0**	**74**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**1.2**	**7.5**
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	**27**	**160**
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	**3.2**	**31**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**3.8**	**25**
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	**11**	**30**
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**25**	**170**
Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**25**	**140**
PAH(total)	T207	M40	0.1	mg/kg	<0.1	<0.1	**140**	**1000**
TPH (C8-C10)	T8	M105	1	mg/kg	-	<1	(9) <10	-
TPH (C10-C12)	T206	M105	1	mg/kg	-	<1	(9) <10	-
TPH (C12-C16)	T206	M105	1	mg/kg	-	<1	(9) <10	-
TPH (C16-C21)	T206	M105	1	mg/kg	-	<1	**55**	-
TPH (C21-C35)	T206	M105	1	mg/kg	-	<1	**360**	-
TPH (C35-C40)	T8	M105	1	mg/kg	-	<1	**120**	-
TPH (C8 - C40)	T85	M105	1	mg/kg	-	<1	**540**	-
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	<0.100	-	-	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	<0.10	-	-	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	<0.10	-	-	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	<1	-	-	(9) <10
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	<2	-	-	**26**
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	<1	-	-	**30**
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	<4	-	-	(9) <10
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	<1	-	-	(9) <10
TPH (Aliphatic) total	T85	M105		mg/kg	N.D.	-	-	**56**
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	<0.10	-	-	<0.10

SAL Reference: 345915
Project Site: A63 Castle St - 33
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**345915 004**	**345915 014**	**345915 019**	**345915 020**
				Customer Sample Reference	**BH42 ES 007 3.0**	**BH29 ES 016 4.0**	**SCPT23 ES 001 0.5**	**BH24 ES 001 0.2**
				Top Depth	**3.0**	**4.0**	**0.5**	**0.2**
				Date Sampled	**15-AUG-2013**	**15-AUG-2013**	**15-AUG-2013**	**15-AUG-2013**
				Type	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	<0.10	-	-	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	<0.10	-	-	<0.10
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	<1	-	-	(9) <10
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	<1	-	-	**64**
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	<1	-	-	**500**
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	<1	-	-	**860**
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	<1	-	-	**175**
TPH (Aromatic) total	T85	M105		mg/kg	N.D.	-	-	**1600**
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N.D.	-	-	**1700**
Benzene	T209	M105	0.010	mg/kg	<0.010	-	-	**0.013**
Toluene	T209	M105	0.010	mg/kg	<0.010	-	-	**0.012**
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	-	-	<0.010
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	<0.010	-	-	<0.010
O Xylene	T209	M105	0.010	mg/kg	<0.010	-	-	<0.010
M/P Xylene	T209	M105	0.010	mg/kg	<0.010	-	-	**0.013**
PCB BZ#101	T1	M105	0.00005	mg/kg	-	-	-	**0.0019**
PCB BZ#118	T1	M105	0.00005	mg/kg	-	-	-	**0.0014**
PCB BZ#138	T1	M105	0.00005	mg/kg	-	-	-	**0.0034**
PCB BZ#153	T1	M105	0.00005	mg/kg	-	-	-	**0.0030**
PCB BZ#180	T1	M105	0.00005	mg/kg	-	-	-	**0.0041**
PCB BZ#28	T1	M105	0.00005	mg/kg	-	-	-	**0.00070**
PCB BZ#52	T1	M105	0.00005	mg/kg	-	-	-	**0.0020**

SAL Reference: 345915
Project Site: A63 Castle St - 33
Customer Reference: 112630

Soil Analysed as Soil

Volatile Organic Compounds (USEPA 624) (MCERTS)

SAL Reference	**345915 020**
Customer Sample Reference	**BH24 ES 001 0.2**
Top Depth	**0.2**
Date Sampled	**15-AUG-2013**
Type	**Sandy Soil**

Determinand	Method	Test Sample	LOD	Units	
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	<0.050
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	<0.050
1,1-Dichloroethane	T209	M105	0.050	mg/kg	<0.050
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050
1,1-Dichloropropene	T209	M105	0.050	mg/kg	<0.050
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	<0.050
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050
1,2-dibromoethane	T209	M105	0.050	mg/kg	<0.050
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050
1,2-Dichloroethane	T209	M105	0.050	mg/kg	<0.050
1,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050
1,3-Dichloropropane	T209	M105	0.050	mg/kg	<0.050
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050
2,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050
2-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050
4-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050
Benzene	T209	M105	0.010	mg/kg	**0.013**
Bromobenzene	T209	M105	0.050	mg/kg	<0.050
Bromochloromethane	T209	M105	0.050	mg/kg	<0.050
Bromodichloromethane	T209	M105	0.050	mg/kg	<0.050
Bromoform	T209	M105	0.050	mg/kg	<0.050
Bromomethane	T209	M105	0.050	mg/kg	<0.050
Carbon tetrachloride	T209	M105	0.050	mg/kg	<0.050
Chlorobenzene	T209	M105	0.050	mg/kg	<0.050
Chlorodibromomethane	T209	M105	0.050	mg/kg	<0.050
Chloroethane	T209	M105	0.050	mg/kg	<0.050
Chloroform	T209	M105	0.050	mg/kg	<0.050
Chloromethane	T209	M105	0.050	mg/kg	<0.050
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050
Dibromomethane	T209	M105	0.050	mg/kg	<0.050
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	<0.050
Dichloromethane	T209	M105	0.050	mg/kg	<0.050
EthylBenzene	T209	M105	0.010	mg/kg	<0.010
Isopropyl benzene	T209	M105	0.050	mg/kg	<0.050
M/P Xylene	T209	M105	0.010	mg/kg	**0.013**
n-Propylbenzene	T209	M105	0.050	mg/kg	<0.050
O Xylene	T209	M105	0.010	mg/kg	<0.010
p-Isopropyltoluene	T209	M105	0.050	mg/kg	<0.050
S-Butylbenzene	T209	M105	0.050	mg/kg	<0.050
Styrene	T209	M105	0.050	mg/kg	<0.050
T-Butylbenzene	T209	M105	0.050	mg/kg	<0.050
Tetrachloroethene	T209	M105	0.050	mg/kg	<0.050
Toluene	T209	M105	0.010	mg/kg	**0.012**
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	<0.050
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050
Trichloroethene	T209	M105	0.050	mg/kg	<0.050
Trichlorofluoromethane	T209	M105	0.050	mg/kg	<0.050
Vinyl chloride	T209	M105	0.050	mg/kg	<0.050

SAL Reference: 345915
Project Site: A63 Castle St - 33
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

SAL Reference	**345915 020**
Customer Sample Reference	**BH24 ES 001 0.2**
Top Depth	**0.2**
Date Sampled	**15-AUG-2013**
Type	**Sandy Soil**

Determinand	Method	Test Sample	LOD	Units	
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	**0.4**
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	<0.1
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	**0.5**
2-Methylnaphthalene	T207	M105	0.1	mg/kg	**16**
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	**0.6**
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	<0.1
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1
4-Nitrophenol	T207	M105	0.1	mg/kg	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	**25**
Acenaphthylene	T207	M105	0.1	mg/kg	**4.6**
Anthracene	T207	M105	0.1	mg/kg	**54**
Azobenzene	T207	M105	0.1	mg/kg	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**73**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**74**
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	**140**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**25**
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	**0.9**
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1
Carbazole	T207	M105	0.1	mg/kg	**89**
Chrysene	T207	M105	0.1	mg/kg	**74**
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	**7.5**
Dibenzofuran	T207	M105	0.1	mg/kg	**23**
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**160**
Fluorene	T207	M105	0.1	mg/kg	**31**
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**25**
Isophorone	T207	M105	0.1	mg/kg	<0.1
Naphthalene	T207	M105	0.1	mg/kg	**30**
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**170**

SAL Reference: 345915
Project Site: A63 Castle St - 33
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

SAL Reference	**345915 020**
Customer Sample Reference	**BH24 ES 001 0.2**
Top Depth	**0.2**
Date Sampled	**15-AUG-2013**
Type	**Sandy Soil**

Determinand	Method	Test Sample	LOD	Units	
Phenol	T207	M105	0.1	mg/kg	<0.1
Pyrene	T207	M105	0.1	mg/kg	**140**

Index to symbols used in 345915-1

Value	Description
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
AR	As Received
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
N.D.	Not Detected
9	LOD raised due to dilution of sample
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T209	GC/MS(Head Space)(MCERTS)
T286	Calc TOC/100
T27	PLM
T6	ICP/OES
T149	GC/MS (SIR)
T8	GC/FID
T85	Calc
T1	GC/MS (HR)
T207	GC/MS(MCERTS)
T206	GC/FID (MCERTS)
T162	Grav (1 Dec) (105 C)
T7	Probe
T277	Grav (1 Dec) (40 C)
T546	Colorimetry (CF)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture @ 105 C	T162	AR	0.1	%	N	004,014,019-020
Moisture	T277	AR	0.1	%	N	004,014,019-020
Asbestos ID	T27	AR			SU	004,019-020
pH	T7	AR			M	004,014,019-020
Mass Fraction of organic carbon	T286	M40			N	014,019
Arsenic	T6	M40	2	mg/kg	M	004,014,019-020
Boron (water-soluble)	T6	AR	1	mg/kg	N	004,014,019-020
Cadmium	T6	M40	1	mg/kg	M	004,014,019-020
Chromium	T6	M40	1	mg/kg	M	004,014,019-020
Chromium (trivalent)	T85	AR	2	mg/kg	N	004,014,019-020
Chromium VI	T6	AR	1	mg/kg	N	004,014,019-020
Copper	T6	M40	1	mg/kg	M	004,014,019-020
Lead	T6	M40	1	mg/kg	M	004,014,019-020
Mercury	T6	M40	1	mg/kg	M	004,014,019-020

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Nickel	T6	M40	1	mg/kg	M	004,014,019-020
Selenium	T6	M40	3	mg/kg	M	004,014,019-020
Zinc	T6	M40	1	mg/kg	M	004,014,019-020
Cyanide(Total)	T546	AR	1	mg/kg	M	004,014,019-020
Cyanide(free)	T546	AR	1	mg/kg	M	004,014,019-020
SO4(Total)	T6	M40	0.01	%	N	004,014,019-020
Total Phenols	T149	AR	0.01	mg/kg	U	004,014,019-020
Acenaphthene	T207	M105	0.1	mg/kg	M	004,014,019-020
Acenaphthylene	T207	M105	0.1	mg/kg	U	004,014,019-020
Anthracene	T207	M105	0.1	mg/kg	U	004,014,019-020
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	004,014,019-020
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	004,014,019-020
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	004,014,019-020
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	004,014,019-020
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	004,014,019-020
Chrysene	T207	M105	0.1	mg/kg	M	004,014,019-020
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	004,014,019-020
Fluoranthene	T207	M105	0.1	mg/kg	M	004,014,019-020
Fluorene	T207	M105	0.1	mg/kg	M	004,014,019-020
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	004,014,019-020
Naphthalene	T207	M105	0.1	mg/kg	M	004,014,019-020
Phenanthrene	T207	M105	0.1	mg/kg	M	004,014,019-020
Pyrene	T207	M105	0.1	mg/kg	M	004,014,019-020
PAH(total)	T207	M40	0.1	mg/kg	U	004,014,019-020
TPH (C8-C10)	T8	M105	1	mg/kg	N	014,019
TPH (C10-C12)	T206	M105	1	mg/kg	M	014,019
TPH (C12-C16)	T206	M105	1	mg/kg	M	014,019
TPH (C16-C21)	T206	M105	1	mg/kg	M	014,019
TPH (C21-C35)	T206	M105	1	mg/kg	M	014,019
TPH (C35-C40)	T8	M105	1	mg/kg	N	014,019
TPH (C8 - C40)	T85	M105	1	mg/kg	N	014,019
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	N	004,020
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	N	004,020
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	N	004,020
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	M	004,020
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	M	004,020
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	M	004,020
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	M	004,020
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	N	004,020
TPH (Aliphatic) total	T85	M105		mg/kg	N	004,020
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	N	004,020
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	N	004,020
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	N	004,020
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	M	004,020
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	M	004,020
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	M	004,020
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	M	004,020
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	N	004,020
TPH (Aromatic) total	T85	M105		mg/kg	N	004,020
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N	004,020
Benzene	T209	M105	0.010	mg/kg	M	004,020
Toluene	T209	M105	0.010	mg/kg	M	004,020
EthylBenzene	T209	M105	0.010	mg/kg	M	004,020
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	M	004,020
O Xylene	T209	M105	0.010	mg/kg	M	004,020
M/P Xylene	T209	M105	0.010	mg/kg	M	004,020
PCB BZ#101	T1	M105	0.00005	mg/kg	M	020
PCB BZ#118	T1	M105	0.00005	mg/kg	M	020
PCB BZ#138	T1	M105	0.00005	mg/kg	M	020
PCB BZ#153	T1	M105	0.00005	mg/kg	M	020
PCB BZ#180	T1	M105	0.00005	mg/kg	M	020
PCB BZ#28	T1	M105	0.00005	mg/kg	M	020
PCB BZ#52	T1	M105	0.00005	mg/kg	M	020
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	020
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	020
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	020
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	020
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	020
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	020
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	020

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	020
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	U	020
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	020
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	020
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	020
2-Chlorophenol	T207	M105	0.1	mg/kg	M	020
2-methyl phenol	T207	M105	0.1	mg/kg	M	020
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	020
2-Nitroaniline	T207	M105	0.1	mg/kg	M	020
2-Nitrophenol	T207	M105	0.1	mg/kg	U	020
3-Nitroaniline	T207	M105	0.1	mg/kg	U	020
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	020
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	020
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	020
4-Chloroaniline	T207	M105	0.1	mg/kg	U	020
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	020
4-Nitroaniline	T207	M105	0.1	mg/kg	U	020
4-Nitrophenol	T207	M105	0.1	mg/kg	U	020
Azobenzene	T207	M105	0.1	mg/kg	M	020
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	020
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	020
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	020
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	020
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	020
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	020
Carbazole	T207	M105	0.1	mg/kg	U	020
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	020
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	020
Dibenzofuran	T207	M105	0.1	mg/kg	M	020
Diethyl phthalate	T207	M105	0.1	mg/kg	U	020
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	020
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	020
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	020
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	020
Hexachloroethane	T207	M105	0.1	mg/kg	U	020
Isophorone	T207	M105	0.1	mg/kg	U	020
Nitrobenzene	T207	M105	0.1	mg/kg	M	020
Pentachlorophenol	T207	M105	0.1	mg/kg	U	020
Phenol	T207	M105	0.1	mg/kg	M	020
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	M	020
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	M	020
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	U	020
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	M	020
1,1-Dichloroethane	T209	M105	0.050	mg/kg	M	020
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	M	020
1,1-Dichloropropene	T209	M105	0.050	mg/kg	M	020
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	U	020
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	M	020
1,2-dibromoethane	T209	M105	0.050	mg/kg	M	020
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	M	020
1,2-Dichloroethane	T209	M105	0.050	mg/kg	M	020
1,2-Dichloropropane	T209	M105	0.050	mg/kg	M	020
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	M	020
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	M	020
1,3-Dichloropropane	T209	M105	0.050	mg/kg	M	020
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	M	020
2,2-Dichloropropane	T209	M105	0.050	mg/kg	U	020
2-Chlorotoluene	T209	M105	0.050	mg/kg	U	020
4-Chlorotoluene	T209	M105	0.050	mg/kg	U	020
Bromobenzene	T209	M105	0.050	mg/kg	M	020
Bromochloromethane	T209	M105	0.050	mg/kg	M	020
Bromodichloromethane	T209	M105	0.050	mg/kg	M	020
Bromoform	T209	M105	0.050	mg/kg	M	020
Bromomethane	T209	M105	0.050	mg/kg	U	020
Carbon tetrachloride	T209	M105	0.050	mg/kg	M	020
Chlorobenzene	T209	M105	0.050	mg/kg	M	020
Chlorodibromomethane	T209	M105	0.050	mg/kg	M	020
Chloroethane	T209	M105	0.050	mg/kg	M	020
Chloroform	T209	M105	0.050	mg/kg	M	020
Chloromethane	T209	M105	0.050	mg/kg	U	020

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	M	020
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	020
Dibromomethane	T209	M105	0.050	mg/kg	M	020
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	M	020
Dichloromethane	T209	M105	0.050	mg/kg	U	020
Isopropyl benzene	T209	M105	0.050	mg/kg	M	020
n-Propylbenzene	T209	M105	0.050	mg/kg	M	020
p-Isopropyltoluene	T209	M105	0.050	mg/kg	M	020
S-Butylbenzene	T209	M105	0.050	mg/kg	M	020
Styrene	T209	M105	0.050	mg/kg	U	020
T-Butylbenzene	T209	M105	0.050	mg/kg	M	020
Tetrachloroethene	T209	M105	0.050	mg/kg	M	020
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	M	020
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	020
Trichloroethene	T209	M105	0.050	mg/kg	M	020
Trichlorofluoromethane	T209	M105	0.050	mg/kg	M	020
Vinyl chloride	T209	M105	0.050	mg/kg	M	020

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: Supplement to 346570-1

Date of Report: 06-Nov-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 34, 35, 36
Date Job Received at SAL: 19-Aug-2013
Date Analysis Started: 27-Aug-2013
Date Analysis Completed: 04-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

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mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked and authorised by :
Mr Ross Walker
Customer Services Manager (Land)

Issued by :
Lianne Bromiley
Assistant Customer Servi
Manager

[redacted]

SAL Reference: 346570
Project Site: A63 Castle St - 34, 35, 36
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**346570 001**	**346570 007**	**346570 008**	**346570 010**	**346570 012**	**346570 015**	**346570 017**	**346570 019**	**346570 021**
				Customer Sample Reference	**BH10 ES 002 1.5**	**BH10 ES 018 7.5**	**BH26 ES 001 0.3**	**BH25 ES 001 0.5**	**WS24 ES 001 0.2**	**TP10 ES 002 0.8**	**BH27 ES 002 1.0**	**SCPT21B ES 001 0.5**	**WS18 ES 001 0.5**
				Date Sampled	**16-AUG-2013**	**16-AUG-2013**	**16-AUG-2013**	**16-AUG-2013**	**16-AUG-2013**	**16-AUG-2013**	**16-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**
				Top Depth	**1.5**	**7.5**	**0.3**	**0.5**	**0.2**	**0.8**	**1.0**	**0.5**	**0.5**
				Type	**Clay**	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
Moisture @ 105 C	T162	AR	0.1	%	**22**	**33**	**20**	**10**	**13**	**24**	**23**	**9.2**	**8.2**
Moisture	T277	AR	0.1	%	**22**	**30**	**19**	**10**	**13**	**22**	**22**	**8.1**	**7.8**
Asbestos ID	T27	AR			N.D.	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
pH	T7	AR			**7.8**	**8.4**	**7.7**	**8.0**	**8.0**	**7.9**	**8.1**	**8.1**	**8.1**
Mass Fraction of organic carbon	T286	M40			-	**0.012**	-	-	-	**0.027**	-	-	-
Arsenic	T6	M40	2	mg/kg	**13**	**10**	**16**	**15**	**7**	**13**	**11**	**38**	**13**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	AR	1	mg/kg	**24**	**20**	**15**	**17**	**9**	**17**	**16**	**36**	**14**
Chromium (trivalent)	T85	AR	2	mg/kg	**24**	**20**	**15**	**17**	**9**	**17**	**16**	**36**	**14**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**17**	**15**	**38**	**50**	**17**	**30**	**11**	**320**	**25**
Lead	T6	M40	1	mg/kg	**22**	**21**	**140**	**200**	**38**	**62**	**15**	**700**	**52**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**28**	**21**	**19**	**19**	**9**	**20**	**18**	**26**	**11**
Selenium	T6	AR	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**73**	**70**	**69**	**100**	**58**	**61**	**48**	**340**	**55**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.05**	**0.61**	**0.10**	**0.10**	**0.07**	**0.08**	**0.06**	**0.17**	**0.08**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01	**0.05**	**0.05**	<0.01	<0.01	<0.01	**0.23**	<0.01
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.5**	<0.1	<0.1	<0.1	**1.2**	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	<0.1	<0.1	<0.1	**0.3**	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.3**	**1.5**	**0.4**	<0.1	<0.1	**2.7**	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.7**	**3.8**	**1.3**	<0.1	<0.1	**7.0**	**0.2**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.4**	**2.9**	**0.6**	<0.1	<0.1	**5.1**	**0.2**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.4**	**3.3**	**0.8**	<0.1	<0.1	**4.7**	**0.1**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.1**	**1.2**	**0.2**	<0.1	<0.1	**2.1**	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.4**	**2.0**	**0.7**	<0.1	<0.1	**4.2**	**0.2**
Chrysene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.6**	**3.9**	**1.2**	<0.1	<0.1	**6.5**	**0.3**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.4**	<0.1	<0.1	<0.1	**0.6**	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.3**	**2.0**	**6.4**	**2.4**	<0.1	<0.1	**10**	**0.5**
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.6**	<0.1	<0.1	<0.1	**1.0**	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.2**	**1.3**	**0.3**	<0.1	<0.1	**2.2**	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.1**	**0.5**	**0.1**	<0.1	<0.1	**2.6**	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**1.0**	**5.0**	**1.5**	<0.1	<0.1	**8.9**	**0.2**
Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.3**	**1.8**	**5.5**	**2.1**	<0.1	<0.1	**9.2**	**0.5**
PAH(total)	T207	M105	0.1	mg/kg	<0.1	**0.6**	**8.0**	**39**	**12**	<0.1	<0.1	**68**	**2.2**
TPH (C8-C10)	T8	M105	1	mg/kg	<1	<1	<1	-	<1	<1	-	-	-
TPH (C10-C12)	T206	M105	1	mg/kg	<1	<1	<1	-	<1	<1	-	-	-
TPH (C12-C16)	T206	M105	1	mg/kg	<1	<1	<1	-	<1	**3**	-	-	-
TPH (C16-C21)	T206	M105	1	mg/kg	<1	<1	**2**	-	**6**	**2**	-	-	-
TPH (C21-C35)	T206	M105	1	mg/kg	<1	**4**	**4**	-	**13**	**1**	-	-	-
TPH (C35-C40)	T8	M105	1	mg/kg	<1	<1	<1	-	**2**	<1	-	-	-
TPH (C8 - C40)	T85	M105	1	mg/kg	<1	**4**	**6**	-	**21**	**6**	-	-	-
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	-	-	-	<0.100	-	-	<0.100	<0.100	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	-	-	<0.10	<0.10	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	-	-	<0.10	<0.10	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	-	-	-	<1	-	-	<1	<1	<1
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	-	-	-	**3**	-	-	<2	**7**	**2**
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	-	-	-	**8**	-	-	**3**	**11**	**9**
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	-	-	-	**11**	-	-	<4	**13**	**23**
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	-	-	-	<1	-	-	<1	**1**	**1**
TPH (Aliphatic) total	T85	M105		mg/kg	-	-	-	**22**	-	-	**3.0**	**32**	**35**

SAL Reference: 346570
Project Site: A63 Castle St - 34, 35, 36
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**346570 001**	**346570 007**	**346570 008**	**346570 010**	**346570 012**	**346570 015**	**346570 017**	**346570 019**	**346570 021**
				Customer Sample Reference	**BH10 ES 002 1.5**	**BH10 ES 018 7.5**	**BH26 ES 001 0.3**	**BH25 ES 001 0.5**	**WS24 ES 001 0.2**	**TP10 ES 002 0.8**	**BH27 ES 002 1.0**	**SCPT21B ES 001 0.5**	**WS18 ES 001 0.5**
				Date Sampled	**16-AUG-2013**	**16-AUG-2013**	**16-AUG-2013**	**16-AUG-2013**	**16-AUG-2013**	**16-AUG-2013**	**16-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**
				Top Depth	**1.5**	**7.5**	**0.3**	**0.5**	**0.2**	**0.8**	**1.0**	**0.5**	**0.5**
				Type	**Clay**	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	-	-	<0.10	<0.10	<0.10
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	-	-	<0.10	<0.10	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	-	-	<0.10	<0.10	<0.10
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	-	-	-	**2**	-	-	<1	(9) <10	<1
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	-	-	-	**10**	-	-	<1	**36**	**2**
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	-	-	-	**58**	-	-	<1	**250**	**9**
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	-	-	-	**100**	-	-	**4**	**400**	**25**
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	-	-	-	**8**	-	-	<1	**36**	**3**
TPH (Aromatic) total	T85	M105		mg/kg	-	-	-	**180**	-	-	**4.0**	**720**	**39**
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	-	-	-	**200**	-	-	**7.0**	**750**	**74**
Benzene	T209	M105	0.010	mg/kg	-	-	-	<0.010	-	-	<0.010	<0.010	<0.010
Toluene	T209	M105	0.010	mg/kg	-	-	-	<0.010	-	-	<0.010	<0.010	<0.010
EthylBenzene	T209	M105	0.010	mg/kg	-	-	-	<0.010	-	-	<0.010	<0.010	<0.010
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	-	-	-	<0.010	-	-	<0.010	<0.010	<0.010
O Xylene	T209	M105	0.010	mg/kg	-	-	-	<0.010	-	-	<0.010	<0.010	<0.010
M/P Xylene	T209	M105	0.010	mg/kg	-	-	-	<0.010	-	-	<0.010	<0.010	**0.014**
PCB BZ#101	T1	M105	0.00005	mg/kg	-	-	-	(9) <0.00050	-	-	<0.00005	-	-
PCB BZ#118	T1	M105	0.00005	mg/kg	-	-	-	(9) <0.00050	-	-	<0.00005	-	-
PCB BZ#138	T1	M105	0.00005	mg/kg	-	-	-	(9) <0.00050	-	-	<0.00005	-	-
PCB BZ#153	T1	M105	0.00005	mg/kg	-	-	-	(9) <0.00050	-	-	<0.00005	-	-
PCB BZ#180	T1	M105	0.00005	mg/kg	-	-	-	(9) <0.00050	-	-	<0.00005	-	-
PCB BZ#28	T1	M105	0.00005	mg/kg	-	-	-	(9) <0.00050	-	-	<0.00005	-	-
PCB BZ#52	T1	M105	0.00005	mg/kg	-	-	-	(9) <0.00050	-	-	<0.00005	-	-

SAL Reference: 346570
Project Site: A63 Castle St - 34, 35, 36
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**346570 024**	**346570 028**	**346570 031**	**346570 032**	**346570 034**	**346570 036**	**346570 037**	**346570 040**	**346570 041**
				Customer Sample Reference	**WS19 ES 002 1.0**	**WS08 ES 001 0.5**	**WS07 ES 002 1.0**	**WS10 ES 001 0.5**	**WS11 ES 001 0.5**	**WS06 ES 001 0.5**	**WS06 ES 002 1.0**	**SCPT13 ES 001 0.5**	**SCPT19 ES 001 0.5**
				Date Sampled	**20-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**19-AUG-2013**	**19-AUG-2013**
				Top Depth	**1.0**	**0.5**	**1.0**	**0.5**	**0.5**	**0.5**	**1.0**	**0.5**	**0.5**
				Type	**Sandy Soil**	**Sandy Soil**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
Moisture @ 105 C	T162	AR	0.1	%	**11**	**18**	**20**	**18**	**19**	**18**	**22**	**5.6**	**10**
Moisture	T277	AR	0.1	%	**11**	**18**	**20**	**17**	**19**	**18**	**21**	**6.2**	**11**
Asbestos ID	T27	AR			N.D.	N.D.	N.D.	Chrysotile Detected -	N.D.	N.D.	N.D.	N.D.	N.D.
pH	T7	AR			**8.3**	**8.3**	**7.8**	**8.0**	**8.3**	**8.4**	**8.0**	**8.2**	**7.9**
Mass Fraction of organic carbon	T286	M40			**0.0053**	-	-	-	-	-	-	-	-
Arsenic	T6	M40	2	mg/kg	**9**	**20**	**11**	**22**	**10**	**22**	**18**	**25**	**17**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	AR	1	mg/kg	**10**	**13**	**25**	**34**	**23**	**14**	**24**	**22**	**23**
Chromium (trivalent)	T85	AR	2	mg/kg	**10**	**13**	**25**	**34**	**23**	**14**	**24**	**22**	**23**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**14**	**56**	**17**	**66**	**25**	**51**	**24**	**120**	**53**
Lead	T6	M40	1	mg/kg	**38**	**170**	**24**	**420**	**55**	**250**	**200**	**490**	**270**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**10**	**13**	**27**	**23**	**24**	**16**	**28**	**27**	**23**
Selenium	T6	AR	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**50**	**56**	**79**	**200**	**80**	**87**	**86**	**250**	**150**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.10**	**0.21**	**0.21**	**0.33**	**0.10**	**0.18**	**0.07**	**0.19**	**0.15**
Total Phenols	T149	AR	0.01	mg/kg	**0.01**	<0.01	<0.01	**0.03**	<0.01	<0.01	<0.01	**0.09**	**0.04**
Acenaphthene	T207	M105	0.1	mg/kg	**0.3**	<0.1	<0.1	**0.1**	<0.1	**0.1**	<0.1	**2.1**	**0.9**
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.3**	**0.1**
Anthracene	T207	M105	0.1	mg/kg	**1.0**	<0.1	<0.1	**0.3**	<0.1	<0.1	<0.1	**7.5**	**1.7**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**3.0**	<0.1	<0.1	**1.5**	**0.2**	**0.3**	**0.2**	**15**	**4.8**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**1.6**	<0.1	<0.1	**1.1**	**0.2**	**0.2**	**0.1**	**8.3**	**2.8**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**2.1**	<0.1	<0.1	**1.0**	**0.2**	**0.2**	**0.2**	**12**	**3.1**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**0.6**	<0.1	<0.1	**0.5**	<0.1	<0.1	<0.1	**3.1**	**1.1**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**1.6**	<0.1	<0.1	**1.0**	**0.1**	**0.2**	**0.1**	**8.5**	**2.1**
Chrysene	T207	M105	0.1	mg/kg	**2.7**	<0.1	<0.1	**1.4**	**0.2**	**0.3**	**0.2**	**12**	**4.0**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	**0.2**	<0.1	<0.1	**0.1**	<0.1	<0.1	<0.1	**1.0**	**0.3**
Fluoranthene	T207	M105	0.1	mg/kg	**3.5**	<0.1	<0.1	**3.2**	**0.2**	**0.7**	**0.9**	**34**	**8.2**
Fluorene	T207	M105	0.1	mg/kg	**0.3**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**1.5**	**0.7**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**0.7**	<0.1	<0.1	**0.5**	<0.1	<0.1	<0.1	**4.0**	**1.2**
Naphthalene	T207	M105	0.1	mg/kg	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**2.2**	**0.5**
Phenanthrene	T207	M105	0.1	mg/kg	**2.7**	<0.1	<0.1	**1.1**	<0.1	**0.3**	**0.5**	**24**	**6.7**
Pyrene	T207	M105	0.1	mg/kg	**3.2**	<0.1	<0.1	**2.9**	**0.2**	**0.6**	**0.7**	**29**	**7.0**
PAH(total)	T207	M105	0.1	mg/kg	**24**	<0.1	<0.1	**15**	**1.3**	**2.9**	**2.9**	**160**	**45**
TPH (C8-C10)	T8	M105	1	mg/kg	<1	-	<1	-	-	-	<1	(9) <10	-
TPH (C10-C12)	T206	M105	1	mg/kg	<1	-	<1	-	-	-	<1	(9) <10	-
TPH (C12-C16)	T206	M105	1	mg/kg	**2**	-	<1	-	-	-	<1	**70**	-
TPH (C16-C21)	T206	M105	1	mg/kg	**8**	-	<1	-	-	-	<1	**360**	-
TPH (C21-C35)	T206	M105	1	mg/kg	**18**	-	<1	-	-	-	<1	**470**	-
TPH (C35-C40)	T8	M105	1	mg/kg	**2**	-	<1	-	-	-	<1	**39**	-
TPH (C8 - C40)	T85	M105	1	mg/kg	**30**	-	<1	-	-	-	<1	**939**	-
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	-	<0.100	-	<0.100	<0.100	<0.100	-	-	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	-	<0.10	-	<0.10	<0.10	<0.10	-	-	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	-	<0.10	-	<0.10	<0.10	<0.10	-	-	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	-	<1	-	(9) <10	<1	<1	-	-	<1
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	-	<2	-	(9) <10	<2	<2	-	-	<2
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	-	<1	-	(9) <10	**2**	**3**	-	-	**4**
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	-	<4	-	(9) <10	<4	<4	-	-	**11**

SAL Reference: 346570
Project Site: A63 Castle St - 34, 35, 36
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**346570 024**	**346570 028**	**346570 031**	**346570 032**	**346570 034**	**346570 036**	**346570 037**	**346570 040**	**346570 041**
				Customer Sample Reference	**WS19 ES 002 1.0**	**WS08 ES 001 0.5**	**WS07 ES 002 1.0**	**WS10 ES 001 0.5**	**WS11 ES 001 0.5**	**WS06 ES 001 0.5**	**WS06 ES 002 1.0**	**SCPT13 ES 001 0.5**	**SCPT19 ES 001 0.5**
				Date Sampled	**20-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**19-AUG-2013**	**19-AUG-2013**
				Top Depth	**1.0**	**0.5**	**1.0**	**0.5**	**0.5**	**0.5**	**1.0**	**0.5**	**0.5**
				Type	**Sandy Soil**	**Sandy Soil**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	-	<1	-	(9) <10	<1	<1	-	-	<1
TPH (Aliphatic) total	T85	M105		mg/kg	-	N.D.	-	N.D.	**2.0**	<4.0	-	-	**15**
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	-	<0.10	-	<0.10	<0.10	<0.10	-	-	<0.10
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	-	<0.10	-	<0.10	<0.10	<0.10	-	-	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	-	<0.10	-	<0.10	<0.10	<0.10	-	-	<0.10
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	-	<1	-	(9) <10	<1	<1	-	-	<1
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	-	<1	-	(9) <10	<1	**3**	-	-	**3**
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	-	<1	-	**39**	**1**	**13**	-	-	**21**
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	-	<1	-	**73**	**3**	**32**	-	-	**40**
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	-	<1	-	(9) <10	<1	**3**	-	-	**4**
TPH (Aromatic) total	T85	M105		mg/kg	-	N.D.	-	**110**	**4.0**	**51**	-	-	**68**
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	-	N.D.	-	**110**	**6.0**	**51**	-	-	**83**
Benzene	T209	M105	0.010	mg/kg	-	<0.010	-	<0.010	<0.010	<0.010	-	-	<0.010
Toluene	T209	M105	0.010	mg/kg	-	<0.010	-	<0.010	<0.010	<0.010	-	-	<0.010
EthylBenzene	T209	M105	0.010	mg/kg	-	<0.010	-	<0.010	<0.010	<0.010	-	-	<0.010
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	-	<0.010	-	<0.010	<0.010	<0.010	-	-	<0.010
O Xylene	T209	M105	0.010	mg/kg	-	<0.010	-	<0.010	<0.010	<0.010	-	-	<0.010
M/P Xylene	T209	M105	0.010	mg/kg	-	<0.010	-	<0.010	<0.010	<0.010	-	-	<0.010
PCB BZ#101	T1	M105	0.00005	mg/kg	-	(9) <0.00050	-	(9) <0.00050	<0.00005	-	-	-	**0.00064**
PCB BZ#118	T1	M105	0.00005	mg/kg	-	(9) <0.00050	-	(9) <0.00050	<0.00005	-	-	-	**0.00050**
PCB BZ#138	T1	M105	0.00005	mg/kg	-	(9) <0.00050	-	(9) <0.00050	<0.00005	-	-	-	**0.00078**
PCB BZ#153	T1	M105	0.00005	mg/kg	-	(9) <0.00050	-	(9) <0.00050	<0.00005	-	-	-	**0.00066**
PCB BZ#180	T1	M105	0.00005	mg/kg	-	(9) <0.00050	-	(9) <0.00050	<0.00005	-	-	-	**0.00034**
PCB BZ#28	T1	M105	0.00005	mg/kg	-	(9) <0.00050	-	(9) <0.00050	<0.00005	-	-	-	<0.00005
PCB BZ#52	T1	M105	0.00005	mg/kg	-	(9) <0.00050	-	(9) <0.00050	<0.00005	-	-	-	**0.00028**

SAL Reference: 346570
Project Site: A63 Castle St - 34, 35, 36
Customer Reference: 112630

Soil Analysed as Soil

Volatile Organic Compounds (USEPA 624) (MCERTS)

				SAL Reference	**346570 010**	**346570 017**	**346570 019**	**346570 021**	**346570 028**	**346570 032**	**346570 034**	**346570 041**
				Customer Sample Reference	**BH25 ES 001 0.5**	**BH27 ES 002 1.0**	**SCPT21B ES 001 0.5**	**WS18 ES 001 0.5**	**WS08 ES 001 0.5**	**WS10 ES 001 0.5**	**WS11 ES 001 0.5**	**SCPT19 ES 001 0.5**
				Date Sampled	**16-AUG-2013**	**16-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**19-AUG-2013**
				Top Depth	**0.5**	**1.0**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
				Type	**Sandy Soil**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-dibromoethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
2,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
2-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
4-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Bromobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromochloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromodichloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Carbon tetrachloride	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorodibromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Isopropyl benzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
M/P Xylene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010	**0.014**	<0.010	<0.010	<0.010	<0.010
n-Propylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
O Xylene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
p-Isopropyltoluene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
S-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Styrene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
T-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	**0.077**	<0.050	<0.050	<0.050
Trichlorofluoromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl chloride	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

SAL Reference: 346570
Project Site: A63 Castle St - 34, 35, 36
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

				SAL Reference	**346570 010**	**346570 017**	**346570 019**	**346570 021**	**346570 028**	**346570 032**	**346570 034**	**346570 041**
				Customer Sample Reference	**BH25 ES 001 0.5**	**BH27 ES 002 1.0**	**SCPT21B ES 001 0.5**	**WS18 ES 001 0.5**	**WS08 ES 001 0.5**	**WS10 ES 001 0.5**	**WS11 ES 001 0.5**	**SCPT19 ES 001 0.5**
				Date Sampled	**16-AUG-2013**	**16-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**19-AUG-2013**
				Top Depth	**0.5**	**1.0**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
				Type	**Sandy Soil**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	**0.4**	<0.1	**1.0**	<0.1	<0.1	<0.1	<0.1	**0.5**
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	**0.5**	<0.1	**1.2**	<0.1	<0.1	**0.1**	<0.1	**0.9**
Acenaphthylene	T207	M105	0.1	mg/kg	**0.2**	<0.1	**0.3**	<0.1	<0.1	<0.1	<0.1	**0.1**
Anthracene	T207	M105	0.1	mg/kg	**1.5**	<0.1	**2.7**	<0.1	<0.1	**0.3**	<0.1	**1.7**
Azobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**3.8**	<0.1	**7.0**	**0.2**	<0.1	**1.5**	**0.2**	**4.8**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**2.9**	<0.1	**5.1**	**0.2**	<0.1	**1.1**	**0.2**	**2.8**
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	**5.3**	<0.1	**9.0**	**0.3**	<0.1	**2.0**	**0.3**	**5.4**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**1.2**	<0.1	**2.1**	<0.1	<0.1	**0.5**	<0.1	**1.1**
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**0.4**	<0.1	<0.1
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbazole	T207	M105	0.1	mg/kg	<0.1	<0.1	**3.1**	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	**3.9**	<0.1	**6.5**	**0.3**	<0.1	**1.4**	**0.2**	**4.0**
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**0.9**	<0.1	<0.1
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	**0.4**	<0.1	**0.6**	<0.1	<0.1	**0.1**	<0.1	**0.3**
Dibenzofuran	T207	M105	0.1	mg/kg	**0.5**	<0.1	**1.0**	<0.1	<0.1	<0.1	<0.1	**0.7**
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**6.4**	<0.1	**10**	**0.5**	<0.1	**3.2**	**0.2**	**8.2**
Fluorene	T207	M105	0.1	mg/kg	**0.6**	<0.1	**1.0**	<0.1	<0.1	<0.1	<0.1	**0.7**
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**1.3**	<0.1	**2.2**	<0.1	<0.1	**0.5**	<0.1	**1.2**
Isophorone	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	**0.5**	<0.1	**2.6**	<0.1	<0.1	<0.1	<0.1	**0.5**
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 346570
Project Site: A63 Castle St - 34, 35, 36
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

				SAL Reference	**346570 010**	**346570 017**	**346570 019**	**346570 021**	**346570 028**	**346570 032**	**346570 034**	**346570 041**
				Customer Sample Reference	**BH25 ES 001 0.5**	**BH27 ES 002 1.0**	**SCPT21B ES 001 0.5**	**WS18 ES 001 0.5**	**WS08 ES 001 0.5**	**WS10 ES 001 0.5**	**WS11 ES 001 0.5**	**SCPT19 ES 001 0.5**
				Date Sampled	**16-AUG-2013**	**16-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**19-AUG-2013**
				Top Depth	**0.5**	**1.0**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
				Type	**Sandy Soil**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
Phenanthrene	T207	M105	0.1	mg/kg	**5.0**	<0.1	**8.9**	**0.2**	<0.1	**1.1**	<0.1	**6.7**
Phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	**5.5**	<0.1	**9.2**	**0.5**	<0.1	**2.9**	**0.2**	**7.0**

SAL Reference: 346570
Project Site: A63 Castle St - 34, 35, 36
Customer Reference: 112630

Leachate to BS EN 12457-2 (10:1) Analysed as Water
Grontmij A63 Hull Leachate Suite

				SAL Reference	**346570 012**	**346570 034**	**346570 036**	**346570 040**
				Customer Sample Reference	**WS24 ES 001 0.2**	**WS11 ES 001 0.5**	**WS06 ES 001 0.5**	**SCPT13 ES 001 0.5**
				Date Sampled	**16-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**19-AUG-2013**
				Top Depth	**0.2**	**0.5**	**0.5**	**0.5**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
pH	T7	10:1			**8.4**	**8.1**	**7.9**	**7.9**
As (Dissolved)	T281	10:1	0.2	µg/l	**8.3**	**3.6**	**9.6**	**2.4**
Boron	T6	10:1	10	µg/l	**280**	**89**	**39**	**34**
Cd (Dissolved)	T281	10:1	0.02	µg/l	**0.02**	**0.02**	**0.03**	<0.02
Cr (Dissolved)	T281	10:1	1	µg/l	**2**	**1**	**2**	**2**
Chromium (trivalent)	T85	10:1	3	µg/l	<3	<3	<3	<3
Chromium VI	T686	10:1	3	µg/l	<3	<3	<3	<3
Cu (Dissolved)	T281	10:1	0.5	µg/l	**8.1**	**2.8**	**8.1**	**4.1**
Pb (Dissolved)	T281	10:1	0.3	µg/l	**0.5**	<0.3	**4.0**	**1.0**
Hg (Dissolved)	T281	10:1	0.05	µg/l	<0.05	<0.05	**0.06**	<0.05
Ni (Dissolved)	T281	10:1	1	µg/l	**1**	<1	**1**	<1
Se (Dissolved)	T281	10:1	0.5	µg/l	**1.3**	**1.2**	**0.9**	**0.9**
Zn (Dissolved)	T281	10:1	2	µg/l	**5**	**5**	**7**	**5**
Sulphate	T686	10:1	0.5	mg/l	**3.4**	**7.9**	**2.5**	**7.7**
Sulphide	T4	10:1	0.05	mg/l	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	10:1	0.01	mg/l	**2.0**	**2.5**	**1.6**	**1.9**
Total Phenols	T16	10:1	0.5	µg/l	<0.5	<0.5	<0.5	<0.5
Cyanide(Total)	T220	10:1	10	µg/l	<10	<10	<10	<10
Cyanide(free)	T220	10:1	10	µg/l	<10	<10	<10	<10
Acenaphthene	T149	10:1	0.01	µg/l	**0.11**	**0.13**	**0.10**	**0.10**
Acenaphthylene	T149	10:1	0.01	µg/l	**0.20**	**0.08**	**0.04**	**0.22**
Anthracene	T149	10:1	0.01	µg/l	(100) <0.02	<0.01	**0.05**	**0.03**
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	(100) <0.02	<0.01	**0.28**	**0.06**
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	(100,110) <0.20	<0.01	**0.47**	<0.01
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	(110,100) <0.20	<0.01	**0.43**	<0.01
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	(100,110) <0.20	(110) <0.10	**0.45**	(110) <0.10
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	(110,100) <0.20	<0.01	**0.41**	<0.01
Chrysene	T149	10:1	0.01	µg/l	(100) <0.02	<0.01	**0.31**	**0.06**
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	(110,100) <0.20	(110) <0.10	**0.19**	(110) <0.10
Fluoranthene	T149	10:1	0.01	µg/l	**0.04**	<0.01	**0.35**	**0.09**
Fluorene	T149	10:1	0.01	µg/l	**0.07**	**0.04**	**0.03**	**0.08**
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	(100,110) <0.20	(110) <0.10	**0.53**	(110) <0.10
Naphthalene	T149	10:1	0.01	µg/l	**0.52**	**1.1**	**0.03**	**0.19**
Phenanthrene	T149	10:1	0.01	µg/l	**0.05**	**0.03**	**0.13**	**0.10**
Pyrene	T149	10:1	0.01	µg/l	**0.04**	<0.01	**0.35**	**0.08**
PAH(total)	T149	10:1	0.01	µg/l	**1.0**	**1.4**	**4.2**	**1.0**
PAH (sum of 4)	T85	10:1		µg/l	(100,110) <0.20	(110) <0.10	**1.8**	(110) <0.10
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	(100,110) <0.20	<0.01	**0.93**	<0.01
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	(100,110) <0.20	(110) <0.10	**0.98**	(110) <0.10
TPH (C8-C10) DW	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20	(100) <20
TPH (C10-C12) DW	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20	(100) <20
TPH (C12-C16) DW	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20	(100) <20
TPH (C16-C21) DW	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20	**37**
TPH (C21-C35) DW	T81	10:1	10	µg/l	(100) <20	(100) <20	**48**	**54**
TPH (C35-C40)	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20	(100) <20
TPH (C8 - C40)	T85	10:1	10	µg/l	<20	<20	**50**	**90**

SAL Reference: 346570
Project Site: A63 Castle St - 34, 35, 36
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**346570 025**	**346570 026**	**346570 027**	**346570 038**
				Customer Sample Reference	**SW2 EW 001**	**SW4 EW 001**	**SW3 EW 001**	**BH29 EW 082 5.65**
				Date Sampled	**20-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**19-AUG-2013**
				Top Depth				**5.65**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
pH	T7	AR			**7.7**	**7.9**	**8.0**	**7.0**
As (Dissolved)	T281	AR	0.2	µg/l	**32**	**33**	**34**	**19**
Boron	T6	AR	10	µg/l	**1800**	**1800**	**1800**	**550**
Cd (Dissolved)	T281	AR	0.02	µg/l	**0.15**	**0.15**	**0.15**	**0.31**
Cr (Dissolved)	T281	AR	1	µg/l	**2**	**2**	**2**	**2**
Chromium (trivalent)	T85	AR	3	µg/l	<3	<3	<3	<3
Chromium VI	T686	AR	3	µg/l	<3	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**170**	**230**	**250**	**110**
Pb (Dissolved)	T281	AR	0.3	µg/l	<0.3	<0.3	<0.3	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l	**6**	**6**	**6**	**15**
Se (Dissolved)	T281	AR	0.5	µg/l	**67**	**69**	**75**	**52**
Zn (Dissolved)	T281	AR	2	µg/l	**36**	**28**	**36**	**94**
Calcium	T6	AR	100	µg/l	**230000**	**210000**	**220000**	**520000**
Magnesium	T6	AR	100	µg/l	**540000**	**490000**	**520000**	**340000**
Potassium	T6	AR	100	µg/l	**230000**	**200000**	**220000**	**85000**
Sodium	T6	AR	100	µg/l	**3500000**	**3200000**	**3000000**	**2000000**
Nitrate	T686	AR	0.5	mg/l	**3.8**	**4.3**	**4.1**	<0.5
Nitrite	T686	AR	0.1	mg/l	**0.2**	**0.2**	**0.2**	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	**0.9**	**1.0**	**1.0**	<0.1
Sulphate	T686	AR	0.5	mg/l	**1300**	**1300**	**1300**	**550**
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**410**	**390**	**400**	**170**
Chloride	T686	AR	1	mg/l	**9100**	**8900**	**9000**	**6200**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**0.60**	**0.54**	**0.55**	**5.1**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**0.76**	**0.69**	**0.70**	**6.6**
Suspended Solids (Total)	T2	AR	10	mg/l	<10	**27**	<10	**96000**
Electrical Conductivity	T7	AR	10	µS/cm	**2500**	**2400**	**2500**	**17000**
Total Phenols	T16	AR	0.5	µg/l	<0.5	<0.5	<0.5	<0.5
Cyanide(Total)	T220	AR	0.01	mg/l	<0.01	<0.01	<0.01	<0.01
Cyanide(free)	T220	AR	0.01	mg/l	<0.01	<0.01	<0.01	<0.01
Acenaphthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01
Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	<0.01	<0.01	(110) <0.10	(110) <0.10
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01
Chrysene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	(110) <0.10	(110) <0.10
Fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01
Fluorene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	(110) <0.10	(110) <0.10
Naphthalene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01
Phenanthrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01
Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01
PAH(total)	T149	AR	0.01	µg/l	<0.01	<0.01	(110) <0.10	(110) <0.10
TPH (C8-C10) DW	T81	AR	10	µg/l	<10	<10	<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l	<10	<10	<10	**29**
TPH (C12-C16) DW	T81	AR	10	µg/l	<10	<10	<10	**78**
TPH (C16-C21) DW	T81	AR	10	µg/l	<10	<10	<10	**68**
TPH (C21-C35) DW	T81	AR	10	µg/l	<10	<10	<10	**120**
TPH (C35-C40)	T81	AR	10	µg/l	<10	<10	<10	<10
TPH (C8 - C40)	T85	AR	10	µg/l	<10	<10	<10	**300**

Index to symbols used in Supplement to 346570-1

Value	Description
AR	As Received
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
10:1	Leachate to BS EN 12457-2 (10:1)
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
N.D.	Not Detected
110	LOD raised due to low internal standard recovery.
100	LOD determined by sample aliquot used for analysis
9	LOD raised due to dilution of sample
W	Analysis was performed at another SAL laboratory
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Supplemental report issued to amend the reference for sample 12

Method Index

Value	Description
T207	GC/MS(MCERTS)
T65	ICP/OES (Preconc.)
T2	Grav
T8	GC/FID
T149	GC/MS (SIR)
T546	Colorimetry (CF)
T286	Calc TOC/100
T27	PLM
T281	ICP/MS (Filtered)
T6	ICP/OES
T85	Calc
T81	GC/FID (LV)
T179	Colorimetry (XION 500)
T686	Discrete Analyser
T7	Probe
T4	Colorimetry
T162	Grav (1 Dec) (105 C)
T16	GC/MS
T277	Grav (1 Dec) (40 C)
T1	GC/MS (HR)
T209	GC/MS(Head Space)(MCERTS)
T220	Colorimetry (SD)
T206	GC/FID (MCERTS)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture @ 105 C	T162	AR	0.1	%	N	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Moisture	T277	AR	0.1	%	N	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Asbestos ID	T27	AR			SU	001,008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
pH	T7	AR			M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Mass Fraction of organic carbon	T286	M40			N	007,015,024
Arsenic	T6	M40	2	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Boron (water-soluble)	T6	AR	1	mg/kg	N	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Cadmium	T6	M40	1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Chromium	T6	AR	1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Chromium (trivalent)	T85	AR	2	mg/kg	N	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Chromium VI	T6	AR	1	mg/kg	N	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Copper	T6	M40	1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Lead	T6	M40	1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Mercury	T6	M40	1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Nickel	T6	M40	1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Selenium	T6	AR	3	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Zinc	T6	M40	1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Cyanide(Total)	T546	AR	1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Cyanide(free)	T546	AR	1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
SO4(Total)	T6	M40	0.01	%	N	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Total Phenols	T149	AR	0.01	mg/kg	U	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Acenaphthene	T207	M105	0.1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Acenaphthylene	T207	M105	0.1	mg/kg	U	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Anthracene	T207	M105	0.1	mg/kg	U	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Chrysene	T207	M105	0.1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Fluoranthene	T207	M105	0.1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Fluorene	T207	M105	0.1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Naphthalene	T207	M105	0.1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Phenanthrene	T207	M105	0.1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
Pyrene	T207	M105	0.1	mg/kg	M	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
PAH(total)	T207	M105	0.1	mg/kg	U	001,007-008,010,012,015,017,019,021,024,028,031-032,034,036-037,040-041
TPH (C8-C10)	T8	M105	1	mg/kg	N	001,007-008,012,015,024,031,037,040
TPH (C10-C12)	T206	M105	1	mg/kg	M	001,007-008,012,015,024,031,037,040
TPH (C12-C16)	T206	M105	1	mg/kg	M	001,007-008,012,015,024,031,037,040
TPH (C16-C21)	T206	M105	1	mg/kg	M	001,007-008,012,015,024,031,037,040
TPH (C21-C35)	T206	M105	1	mg/kg	M	001,007-008,012,015,024,031,037,040
TPH (C35-C40)	T8	M105	1	mg/kg	N	001,007-008,012,015,024,031,037,040
TPH (C8 - C40)	T85	M105	1	mg/kg	N	001,007-008,012,015,024,031,037,040
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	N	010,017,019,021,028,032,034,036,041
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	N	010,017,019,021,028,032,034,036,041
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	N	010,017,019,021,028,032,034,036,041
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	M	010,017,019,021,028,032,034,036,041
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	M	010,017,019,021,028,032,034,036,041
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	M	010,017,019,021,028,032,034,036,041
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	M	010,017,019,021,028,032,034,036,041
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	N	010,017,019,021,028,032,034,036,041
TPH (Aliphatic) total	T85	M105		mg/kg	N	010,017,019,021,028,032,034,036,041
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	N	010,017,019,021,028,032,034,036,041
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	N	010,017,019,021,028,032,034,036,041
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	N	010,017,019,021,028,032,034,036,041
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	M	010,017,019,021,028,032,034,036,041
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	M	010,017,019,021,028,032,034,036,041
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	M	010,017,019,021,028,032,034,036,041
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	M	010,017,019,021,028,032,034,036,041
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	N	010,017,019,021,028,032,034,036,041
TPH (Aromatic) total	T85	M105		mg/kg	N	010,017,019,021,028,032,034,036,041

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N	010,017,019,021,028,032,034,036,041
Toluene	T209	M105	0.010	mg/kg	M	010,017,019,021,028,032,034,036,041
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	M	010,017,019,021,028,032,034,036,041
M/P Xylene	T209	M105	0.010	mg/kg	M	010,017,019,021,028,032,034,036,041
PCB BZ#101	T1	M105	0.00005	mg/kg	M	010,017,028,032,034,041
PCB BZ#118	T1	M105	0.00005	mg/kg	M	010,017,028,032,034,041
PCB BZ#138	T1	M105	0.00005	mg/kg	M	010,017,028,032,034,041
PCB BZ#153	T1	M105	0.00005	mg/kg	M	010,017,028,032,034,041
PCB BZ#180	T1	M105	0.00005	mg/kg	M	010,017,028,032,034,041
PCB BZ#28	T1	M105	0.00005	mg/kg	M	010,017,028,032,034,041
PCB BZ#52	T1	M105	0.00005	mg/kg	M	010,017,028,032,034,041
pH	T7	10:1			U	012,034,036,040
As (Dissolved)	T281	10:1	0.2	µg/l	U	012,034,036,040
Boron	T6	10:1	10	µg/l	N	012,034,036,040
Cd (Dissolved)	T281	10:1	0.02	µg/l	U	012,034,036,040
Cr (Dissolved)	T281	10:1	1	µg/l	U	012,034,036,040
Chromium (trivalent)	T85	10:1	3	µg/l	N	012,034,036,040
Chromium VI	T686	10:1	3	µg/l	U	012,034,036,040
Cu (Dissolved)	T281	10:1	0.5	µg/l	U	012,034,036,040
Pb (Dissolved)	T281	10:1	0.3	µg/l	U	012,034,036,040
Hg (Dissolved)	T281	10:1	0.05	µg/l	U	012,034,036,040
Ni (Dissolved)	T281	10:1	1	µg/l	U	012,034,036,040
Se (Dissolved)	T281	10:1	0.5	µg/l	U	012,034,036,040
Zn (Dissolved)	T281	10:1	2	µg/l	U	012,034,036,040
Sulphate	T686	10:1	0.5	mg/l	U	012,034,036,040
Sulphide	T4	10:1	0.05	mg/l	N	012,034,036,040
Sulphur (total)	T65	10:1	0.01	mg/l	N	012,034,036,040
Total Phenols	T16	10:1	0.5	µg/l	U	012,034,036,040
Cyanide(Total)	T220	10:1	10	µg/l	WU	012,034,036,040
Cyanide(free)	T220	10:1	10	µg/l	WN	012,034,036,040
Acenaphthene	T149	10:1	0.01	µg/l	U	012,034,036,040
Acenaphthylene	T149	10:1	0.01	µg/l	U	012,034,036,040
Anthracene	T149	10:1	0.01	µg/l	U	012,034,036,040
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	U	012,034,036,040
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	U	012,034,036,040
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	U	012,034,036,040
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	U	012,034,036,040
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	U	012,034,036,040
Chrysene	T149	10:1	0.01	µg/l	U	012,034,036,040
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	U	012,034,036,040
Fluoranthene	T149	10:1	0.01	µg/l	U	012,034,036,040
Fluorene	T149	10:1	0.01	µg/l	U	012,034,036,040
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	U	012,034,036,040
Naphthalene	T149	10:1	0.01	µg/l	U	012,034,036,040
Phenanthrene	T149	10:1	0.01	µg/l	U	012,034,036,040
Pyrene	T149	10:1	0.01	µg/l	U	012,034,036,040
PAH(total)	T149	10:1	0.01	µg/l	U	012,034,036,040
PAH (sum of 4)	T85	10:1		µg/l	N	012,034,036,040
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	U	012,034,036,040
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	N	012,034,036,040
TPH (C8-C10) DW	T81	10:1	10	µg/l	U	012,034,036,040
TPH (C10-C12) DW	T81	10:1	10	µg/l	U	012,034,036,040
TPH (C12-C16) DW	T81	10:1	10	µg/l	U	012,034,036,040
TPH (C16-C21) DW	T81	10:1	10	µg/l	U	012,034,036,040
TPH (C21-C35) DW	T81	10:1	10	µg/l	U	012,034,036,040
TPH (C35-C40)	T81	10:1	10	µg/l	N	012,034,036,040
TPH (C8 - C40)	T85	10:1	10	µg/l	N	012,034,036,040
pH	T7	AR			U	025-027,038
As (Dissolved)	T281	AR	0.2	µg/l	U	025-027,038
Boron	T6	AR	10	µg/l	N	025-027,038
Cd (Dissolved)	T281	AR	0.02	µg/l	U	025-027,038
Cr (Dissolved)	T281	AR	1	µg/l	U	025-027,038
Chromium (trivalent)	T85	AR	3	µg/l	N	025-027,038
Chromium VI	T686	AR	3	µg/l	U	025-027,038
Cu (Dissolved)	T281	AR	0.5	µg/l	U	025-027,038
Pb (Dissolved)	T281	AR	0.3	µg/l	U	025-027,038
Hg (Dissolved)	T281	AR	0.05	µg/l	U	025-027,038
Ni (Dissolved)	T281	AR	1	µg/l	U	025-027,038
Se (Dissolved)	T281	AR	0.5	µg/l	U	025-027,038
Zn (Dissolved)	T281	AR	2	µg/l	U	025-027,038

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Calcium	T6	AR	100	µg/l	N	025-027,038
Magnesium	T6	AR	100	µg/l	N	025-027,038
Potassium	T6	AR	100	µg/l	N	025-027,038
Sodium	T6	AR	100	µg/l	N	025-027,038
Nitrate	T686	AR	0.5	mg/l	U	025-027,038
Nitrite	T686	AR	0.1	mg/l	U	025-027,038
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	025-027,038
Sulphate	T686	AR	0.5	mg/l	U	025-027,038
Sulphide	T4	AR	0.05	mg/l	N	025-027,038
Sulphur (total)	T65	AR	0.01	mg/l	N	025-027,038
Chloride	T686	AR	1	mg/l	U	025-027,038
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	025-027,038
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	025-027,038
Suspended Solids (Total)	T2	AR	10	mg/l	N	025-027,038
Electrical Conductivity	T7	AR	10	µS/cm	N	025-027,038
Total Phenols	T16	AR	0.5	µg/l	U	025-027,038
Cyanide(Total)	T220	AR	0.01	mg/l	WU	025-027,038
Cyanide(free)	T220	AR	0.01	mg/l	WN	025-027,038
Acenaphthene	T149	AR	0.01	µg/l	U	025-027,038
Acenaphthylene	T149	AR	0.01	µg/l	U	025-027,038
Anthracene	T149	AR	0.01	µg/l	U	025-027,038
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	025-027,038
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	025-027,038
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	025-027,038
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	025-027,038
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	025-027,038
Chrysene	T149	AR	0.01	µg/l	U	025-027,038
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	025-027,038
Fluoranthene	T149	AR	0.01	µg/l	U	025-027,038
Fluorene	T149	AR	0.01	µg/l	U	025-027,038
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	025-027,038
Naphthalene	T149	AR	0.01	µg/l	U	025-027,038
Phenanthrene	T149	AR	0.01	µg/l	U	025-027,038
Pyrene	T149	AR	0.01	µg/l	U	025-027,038
PAH(total)	T149	AR	0.01	µg/l	U	025-027,038
TPH (C8-C10) DW	T81	AR	10	µg/l	U	025-027,038
TPH (C10-C12) DW	T81	AR	10	µg/l	U	025-027,038
TPH (C12-C16) DW	T81	AR	10	µg/l	U	025-027,038
TPH (C16-C21) DW	T81	AR	10	µg/l	U	025-027,038
TPH (C21-C35) DW	T81	AR	10	µg/l	U	025-027,038
TPH (C35-C40)	T81	AR	10	µg/l	N	025-027,038
TPH (C8 - C40)	T85	AR	10	µg/l	N	025-027,038
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	010,017,019,021,028,032,034,041
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	010,017,019,021,028,032,034,041
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	010,017,019,021,028,032,034,041
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	010,017,019,021,028,032,034,041
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	U	010,017,019,021,028,032,034,041
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	010,017,019,021,028,032,034,041
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
2-Chlorophenol	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
2-methyl phenol	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
2-Nitroaniline	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
2-Nitrophenol	T207	M105	0.1	mg/kg	U	010,017,019,021,028,032,034,041
3-Nitroaniline	T207	M105	0.1	mg/kg	U	010,017,019,021,028,032,034,041
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
4-Chloroaniline	T207	M105	0.1	mg/kg	U	010,017,019,021,028,032,034,041
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
4-Nitroaniline	T207	M105	0.1	mg/kg	U	010,017,019,021,028,032,034,041
4-Nitrophenol	T207	M105	0.1	mg/kg	U	010,017,019,021,028,032,034,041
Azobenzene	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	010,017,019,021,028,032,034,041
Carbazole	T207	M105	0.1	mg/kg	U	010,017,019,021,028,032,034,041
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
Dibenzofuran	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
Diethyl phthalate	T207	M105	0.1	mg/kg	U	010,017,019,021,028,032,034,041
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	010,017,019,021,028,032,034,041
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	010,017,019,021,028,032,034,041
Hexachloroethane	T207	M105	0.1	mg/kg	U	010,017,019,021,028,032,034,041
Isophorone	T207	M105	0.1	mg/kg	U	010,017,019,021,028,032,034,041
Nitrobenzene	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
Pentachlorophenol	T207	M105	0.1	mg/kg	U	010,017,019,021,028,032,034,041
Phenol	T207	M105	0.1	mg/kg	M	010,017,019,021,028,032,034,041
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	U	010,017,019,021,028,032,034,041
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
1,1-Dichloroethane	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
1,1-Dichloropropene	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	U	010,017,019,021,028,032,034,041
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
1,2-dibromoethane	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
1,2-Dichloroethane	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
1,2-Dichloropropane	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
1,3-Dichloropropane	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
2,2-Dichloropropane	T209	M105	0.050	mg/kg	U	010,017,019,021,028,032,034,041
2-Chlorotoluene	T209	M105	0.050	mg/kg	U	010,017,019,021,028,032,034,041
4-Chlorotoluene	T209	M105	0.050	mg/kg	U	010,017,019,021,028,032,034,041
Benzene	T209	M105	0.010	mg/kg	M	010,017,019,021,028,032,034,036,041
Bromobenzene	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
Bromochloromethane	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
Bromodichloromethane	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
Bromoform	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
Bromomethane	T209	M105	0.050	mg/kg	U	010,017,019,021,028,032,034,041
Carbon tetrachloride	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
Chlorobenzene	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
Chlorodibromomethane	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
Chloroethane	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
Chloroform	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
Chloromethane	T209	M105	0.050	mg/kg	U	010,017,019,021,028,032,034,041
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
Dibromomethane	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
Dichloromethane	T209	M105	0.050	mg/kg	U	010,017,019,021,028,032,034,041
EthylBenzene	T209	M105	0.010	mg/kg	M	010,017,019,021,028,032,034,036,041
Isopropyl benzene	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
n-Propylbenzene	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
O Xylene	T209	M105	0.010	mg/kg	M	010,017,019,021,028,032,034,036,041
p-Isopropyltoluene	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
S-Butylbenzene	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
Styrene	T209	M105	0.050	mg/kg	U	010,017,019,021,028,032,034,041
T-Butylbenzene	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
Tetrachloroethene	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
Trichloroethene	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
Trichlorofluoromethane	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041
Vinyl chloride	T209	M105	0.050	mg/kg	M	010,017,019,021,028,032,034,041

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Certificate of Analysis

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Report Number: 347221-1

Date of Report: 09-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 37
Date Job Received at SAL: 22-Aug-2013
Date Analysis Started: 28-Aug-2013
Date Analysis Completed: 09-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
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Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

[redacted]

SAL Reference: 347221
Project Site: A63 Castle St - 37
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**347221 001**	**347221 006**	**347221 009**	**347221 010**	**347221 012**	**347221 014**	**347221 017**	**347221 023**
				Customer Sample Reference	**BH24 ES 003 1.5**	**BH24 ES 014 4.8**	**BH24 ES 028 8.0**	**WS08 ES 003 1.2-1.6**	**WS07 ES 003 2.0-2.5**	**WS12 ES 001 0.3**	**WS12A ES 002 0.4-0.6**	**BH16A ES 003 0.5**
				Top Depth	**1.5**	**4.8**	**8.0**	**1.2**	**2.0**	**0.3**	**0.4**	**0.5**
				Date Sampled	**21-AUG-2013**	**21-AUG-2013**	**21-AUG-2013**	**21-AUG-2013**	**21-AUG-2013**	**21-AUG-2013**	**21-AUG-2013**	**21-AUG-2013**
				Type	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
Moisture @ 105 C	T162	AR	0.1	%	**24**	**28**	**31**	**24**	**28**	**12**	**8.8**	**12**
Moisture	T277	AR	0.1	%	**20**	**27**	**28**	**23**	**28**	**11**	**6.6**	**10**
Asbestos ID	T27	AR			N.D.	-	-	N.D.	-	N.D.	Chrysotile Detected -	N.D.
pH	T7	AR			**8.5**	**7.8**	**8.1**	**7.7**	**7.6**	**8.1**	**8.2**	**8.3**
Mass Fraction of organic carbon	T286	M40			-	**0.0099**	-	-	**0.0081**	-	-	-
Arsenic	T6	M40	2	mg/kg	**8**	**8**	**8**	**26**	**13**	**12**	**14**	**27**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**16**	**15**	**18**	**26**	**17**	**16**	**21**	**25**
Chromium (trivalent)	T85	AR	2	mg/kg	**16**	**15**	**18**	**26**	**17**	**16**	**21**	**25**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**11**	**10**	**11**	**40**	**11**	**38**	**52**	**88**
Lead	T6	M40	1	mg/kg	**19**	**11**	**12**	**93**	**12**	**110**	**160**	**660**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**17**	**16**	**17**	**27**	**19**	**16**	**17**	**25**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**51**	**44**	**50**	**120**	**56**	**93**	**140**	**210**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.09**	**0.82**	**0.49**	**0.13**	**1.1**	**0.23**	**0.33**	**0.18**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	**0.03**	<0.01	**0.29**	**0.14**	**0.06**
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**5.2**	**5.6**	**1.0**
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**2.0**	**2.5**	**0.7**
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**24**	**17**	**3.2**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**61**	**43**	**6.4**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**53**	**42**	**5.7**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**73**	**53**	**7.0**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**25**	**23**	**2.9**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**23**	**26**	**3.7**
Chrysene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**54**	**39**	**6.1**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**6.9**	**5.9**	**0.8**
Fluoranthene	T207	M105	0.1	mg/kg	**0.2**	<0.1	<0.1	<0.1	<0.1	**90**	**68**	**11**
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**5.3**	**5.8**	**1.4**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**24**	**20**	**2.8**
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**0.7**	**3.3**	**1.1**
Phenanthrene	T207	M105	0.1	mg/kg	**0.2**	<0.1	<0.1	<0.1	<0.1	**47**	**42**	**9.0**
Pyrene	T207	M105	0.1	mg/kg	**0.2**	<0.1	<0.1	<0.1	<0.1	**83**	**60**	**9.2**
PAH(total)	T207	M105	0.1	mg/kg	**0.6**	<0.1	<0.1	<0.1	<0.1	**580**	**460**	**72**
TPH (C8-C10)	T8	M105	1	mg/kg	<1	<1	<1	<1	<1	-	-	-
TPH (C10-C12)	T206	M105	1	mg/kg	**3**	<1	<1	<1	<1	-	-	-
TPH (C12-C16)	T206	M105	1	mg/kg	**9**	<1	<1	<1	<1	-	-	-
TPH (C16-C21)	T206	M105	1	mg/kg	**16**	<1	<1	<1	**5**	-	-	-
TPH (C21-C35)	T206	M105	1	mg/kg	**29**	<1	<1	**2**	**4**	-	-	-
TPH (C35-C40)	T8	M105	1	mg/kg	**3**	<1	<1	**1**	**1**	-	-	-
TPH (C8 - C40)	T85	M105	1	mg/kg	**60**	<1	<1	**3**	**10**	-	-	-
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	-	-	-	-	-	<0.100	<0.100	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	-	-	-	-	-	<0.10	<0.10	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	-	-	-	-	-	<0.10	<0.10	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	-	-	-	-	-	(9) <10	(9) <10	<1
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	-	-	-	-	-	(9) <10	(9) <10	**2**
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	-	-	-	-	-	**25**	**40**	**5**
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	-	-	-	-	-	**98**	**170**	**10**

SAL Reference: 347221
Project Site: A63 Castle St - 37
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**347221 001**	**347221 006**	**347221 009**	**347221 010**	**347221 012**	**347221 014**	**347221 017**	**347221 023**
				Customer Sample Reference	**BH24 ES 003 1.5**	**BH24 ES 014 4.8**	**BH24 ES 028 8.0**	**WS08 ES 003 1.2-1.6**	**WS07 ES 003 2.0-2.5**	**WS12 ES 001 0.3**	**WS12A ES 002 0.4-0.6**	**BH16A ES 003 0.5**
				Top Depth	**1.5**	**4.8**	**8.0**	**1.2**	**2.0**	**0.3**	**0.4**	**0.5**
				Date Sampled	**21-AUG-2013**	**21-AUG-2013**	**21-AUG-2013**	**21-AUG-2013**	**21-AUG-2013**	**21-AUG-2013**	**21-AUG-2013**	**21-AUG-2013**
				Type	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	-	-	-	-	-	**14**	**27**	**1**
TPH (Aliphatic) total	T85	M105		mg/kg	-	-	-	-	-	**140**	**240**	**18**
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	-	-	-	-	-	<0.10	<0.10	<0.10
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	-	-	-	-	-	<0.10	<0.10	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	-	-	-	-	-	<0.10	<0.10	<0.10
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	-	-	-	-	-	(9) <10	(9) <10	<1
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	-	-	-	-	-	(9) <10	**55**	**2**
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	-	-	-	-	-	**150**	**520**	**15**
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	-	-	-	-	-	**600**	**1400**	**40**
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	-	-	-	-	-	**70**	**215**	**4**
TPH (Aromatic) total	T85	M105		mg/kg	-	-	-	-	-	**820**	**2200**	**61**
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	-	-	-	-	-	**960**	**2400**	**79**
Benzene	T209	M105	0.010	mg/kg	-	-	-	-	-	<0.010	<0.010	<0.010
Toluene	T209	M105	0.010	mg/kg	-	-	-	-	-	<0.010	<0.010	<0.010
EthylBenzene	T209	M105	0.010	mg/kg	-	-	-	-	-	<0.010	<0.010	<0.010
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	-	-	-	-	-	<0.010	<0.010	<0.010
O Xylene	T209	M105	0.010	mg/kg	-	-	-	-	-	<0.010	<0.010	<0.010
M/P Xylene	T209	M105	0.010	mg/kg	-	-	-	-	-	<0.010	<0.010	<0.010
PCB BZ#101	T1	M105	0.00005	mg/kg	-	-	-	-	-	(9) <0.00050	(9) <0.00050	**0.00017**
PCB BZ#118	T1	M105	0.00005	mg/kg	-	-	-	-	-	(9) <0.00050	(9) <0.00050	**0.00011**
PCB BZ#138	T1	M105	0.00005	mg/kg	-	-	-	-	-	**0.00060**	**0.00080**	**0.00021**
PCB BZ#153	T1	M105	0.00005	mg/kg	-	-	-	-	-	**0.00070**	**0.0012**	**0.00019**
PCB BZ#180	T1	M105	0.00005	mg/kg	-	-	-	-	-	**0.0010**	**0.0018**	**0.00011**
PCB BZ#28	T1	M105	0.00005	mg/kg	-	-	-	-	-	(9) <0.00050	(9) <0.00050	<0.00005
PCB BZ#52	T1	M105	0.00005	mg/kg	-	-	-	-	-	(9) <0.00050	(9) <0.00050	**0.00007**

SAL Reference: 347221
Project Site: A63 Castle St - 37
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

	SAL Reference	347221 025	347221 029	347221 038
	Customer Sample Reference	BH16A ES 006 1.5	BH16A ES 014 3.5	BH16A ES 031 8.0
	Top Depth	1.5	3.5	8.0
	Date Sampled	21-AUG-2013	21-AUG-2013	21-AUG-2013
	Type	Sandy Soil	Clay	Clay

Determinand	Method	Test Sample	LOD	Units			
Moisture @ 105 C	T162	AR	0.1	%	**13**	**25**	**29**
Moisture	T277	AR	0.1	%	**12**	**25**	**28**
Asbestos ID	T27	AR			N.D.	-	-
pH	T7	AR			**8.5**	**7.8**	**8.3**
Mass Fraction of organic carbon	T286	M40			**0.0026**	-	**0.0082**
Arsenic	T6	M40	2	mg/kg	**14**	**11**	**9**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**16**	**17**	**17**
Chromium (trivalent)	T85	AR	2	mg/kg	**16**	**17**	**17**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1
Copper	T6	M40	1	mg/kg	**13**	**12**	**12**
Lead	T6	M40	1	mg/kg	**47**	**12**	**12**
Mercury	T6	M40	1	mg/kg	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**11**	**19**	**19**
Selenium	T6	M40	3	mg/kg	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**40**	**51**	**55**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.13**	**1.0**	**0.71**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.4**	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**0.3**	<0.1	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**0.3**	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**0.2**	<0.1	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**0.3**	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	**0.4**	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**1.0**	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**0.2**	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**0.5**	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	**0.9**	<0.1	<0.1
PAH(total)	T207	M105	0.1	mg/kg	**4.5**	<0.1	<0.1
TPH (C8-C10)	T8	M105	1	mg/kg	<1	<1	<1
TPH (C10-C12)	T206	M105	1	mg/kg	<1	<1	<1
TPH (C12-C16)	T206	M105	1	mg/kg	<1	<1	<1
TPH (C16-C21)	T206	M105	1	mg/kg	<1	<1	<1
TPH (C21-C35)	T206	M105	1	mg/kg	<1	<1	<1
TPH (C35-C40)	T8	M105	1	mg/kg	<1	<1	<1
TPH (C8 - C40)	T85	M105	1	mg/kg	<1	<1	<1

SAL Reference: 347221
Project Site: A63 Castle St - 37
Customer Reference: 112630

Soil Analysed as Soil

Volatile Organic Compounds (USEPA 624) (MCERTS)

				SAL Reference	**347221 014**	**347221 017**	**347221 023**
				Customer Sample Reference	**WS12 ES 001 0.3**	**WS12A ES 002 0.4-0.6**	**BH16A ES 003 0.5**
				Top Depth	**0.3**	**0.4**	**0.5**
				Date Sampled	**21-AUG-2013**	**21-AUG-2013**	**21-AUG-2013**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,1-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2-dibromoethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,3-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
2,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
2-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
4-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Benzene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010
Bromobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Bromochloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Bromodichloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Bromoform	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Bromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Carbon tetrachloride	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Chlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Chlorodibromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Chloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Chloroform	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Chloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Dibromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Dichloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010
Isopropyl benzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
M/P Xylene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010
n-Propylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
O Xylene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010
p-Isopropyltoluene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
S-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Styrene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
T-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Tetrachloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Toluene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Trichloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Trichlorofluoromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050
Vinyl chloride	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050

SAL Reference: 347221
Project Site: A63 Castle St - 37
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

				SAL Reference	**347221 014**	**347221 017**	**347221 023**
				Customer Sample Reference	**WS12 ES 001 0.3**	**WS12A ES 002 0.4-0.6**	**BH16A ES 003 0.5**
				Top Depth	**0.3**	**0.4**	**0.5**
				Date Sampled	**21-AUG-2013**	**21-AUG-2013**	**21-AUG-2013**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	**0.4**	**1.4**	**0.7**
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
4-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	**5.2**	**5.6**	**1.0**
Acenaphthylene	T207	M105	0.1	mg/kg	**2.0**	**2.5**	**0.7**
Anthracene	T207	M105	0.1	mg/kg	**24**	**17**	**3.2**
Azobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**61**	**43**	**6.4**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**53**	**42**	**5.7**
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	**94**	**77**	**11**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**25**	**23**	**2.9**
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	**0.5**	**0.4**	**2.2**
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Carbazole	T207	M105	0.1	mg/kg	<0.1	<0.1	**3.1**
Chrysene	T207	M105	0.1	mg/kg	**54**	**39**	**6.1**
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	**6.9**	**5.9**	**0.8**
Dibenzofuran	T207	M105	0.1	mg/kg	**2.3**	**3.0**	**0.9**
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**90**	**68**	**11**
Fluorene	T207	M105	0.1	mg/kg	**5.3**	**5.8**	**1.4**
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**24**	**20**	**2.8**
Isophorone	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	**0.7**	**3.3**	**1.1**
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**47**	**42**	**9.0**

SAL Reference: 347221
Project Site: A63 Castle St - 37
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

				SAL Reference	**347221 014**	**347221 017**	**347221 023**
				Customer Sample Reference	**WS12 ES 001 0.3**	**WS12A ES 002 0.4-0.6**	**BH16A ES 003 0.5**
				Top Depth	**0.3**	**0.4**	**0.5**
				Date Sampled	**21-AUG-2013**	**21-AUG-2013**	**21-AUG-2013**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	**83**	**60**	**9.2**

SAL Reference: 347221
Project Site: A63 Castle St - 37
Customer Reference: 112630

Leachate to BS EN 12457-2 (10:1) Analysed as Water
Grontmij A63 Hull Leachate Suite

				SAL Reference	**347221 017**	**347221 025**
				Customer Sample Reference	**WS12A ES 002 0.4-0.6**	**BH16A ES 006 1.5**
				Top Depth	**0.4**	**1.5**
				Date Sampled	**21-AUG-2013**	**21-AUG-2013**
				Type	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
pH	T7	10:1			**8.0**	**8.1**
As (Dissolved)	T281	10:1	0.2	µg/l	**11**	**19**
Boron	T6	10:1	10	µg/l	**990**	**55**
Cd (Dissolved)	T281	10:1	0.02	µg/l	<0.02	<0.02
Cr (Dissolved)	T281	10:1	1	µg/l	<1	<1
Chromium (trivalent)	T85	10:1	3	µg/l	<3	<3
Chromium VI	T686	10:1	3	µg/l	<3	<3
Cu (Dissolved)	T281	10:1	0.5	µg/l	**3.7**	**1.1**
Pb (Dissolved)	T281	10:1	0.3	µg/l	**0.3**	<0.3
Hg (Dissolved)	T281	10:1	0.05	µg/l	<0.05	<0.05
Ni (Dissolved)	T281	10:1	1	µg/l	<1	<1
Se (Dissolved)	T281	10:1	0.5	µg/l	**0.8**	**0.7**
Zn (Dissolved)	T281	10:1	2	µg/l	<2	<2
Sulphate	T686	10:1	0.5	mg/l	**12**	**7.2**
Sulphide	T4	10:1	0.05	mg/l	<0.05	<0.05
Sulphur (total)	T65	10:1	0.01	mg/l	**3.6**	**2.2**
Total Phenols	T16	10:1	0.5	µg/l	**0.9**	<0.5
Cyanide(Total)	T220	10:1	10	µg/l	<10	<10
Cyanide(free)	T220	10:1	10	µg/l	<10	<10
Acenaphthene	T149	10:1	0.01	µg/l	**1.3**	**0.01**
Acenaphthylene	T149	10:1	0.01	µg/l	**0.67**	**0.03**
Anthracene	T149	10:1	0.01	µg/l	**4.9**	<0.01
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	**18**	**0.05**
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	**20**	<0.01
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	**20**	**0.06**
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	**11**	**0.01**
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	**14**	**0.05**
Chrysene	T149	10:1	0.01	µg/l	**15**	**0.07**
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	**4.8**	<0.01
Fluoranthene	T149	10:1	0.01	µg/l	**31**	**0.10**
Fluorene	T149	10:1	0.01	µg/l	**0.92**	**0.03**
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	**13**	<0.01
Naphthalene	T149	10:1	0.01	µg/l	**0.35**	**0.03**
Phenanthrene	T149	10:1	0.01	µg/l	**8.9**	**0.03**
Pyrene	T149	10:1	0.01	µg/l	**29**	**0.09**
PAH(total)	T149	10:1	0.01	µg/l	**190**	**0.56**
PAH (sum of 4)	T85	10:1		µg/l	**58**	**0.12**
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	**34**	**0.11**
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	**24**	**0.01**
TPH (C8-C10) DW	T81	10:1	10	µg/l	<20	<20
TPH (C10-C12) DW	T81	10:1	10	µg/l	<20	<20
TPH (C12-C16) DW	T81	10:1	10	µg/l	**53**	<20
TPH (C16-C21) DW	T81	10:1	10	µg/l	**280**	<20
TPH (C21-C35) DW	T81	10:1	10	µg/l	**1200**	**120**
TPH (C35-C40)	T81	10:1	10	µg/l	**430**	**160**
TPH (C8 - C40)	T85	10:1	10	µg/l	**1960**	**280**

SAL Reference: 347221
Project Site: A63 Castle St - 37
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**347221 021**	**347221 022**	**347221 039**
				Customer Sample Reference	**SW6 EW 001**	**SW5 EW 001**	**SW1 EW 001**
				Date Sampled	**22-AUG-2013**	**22-AUG-2013**	**22-AUG-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
pH	T7	AR			**7.7**	**7.8**	**7.7**
As (Dissolved)	T281	AR	0.2	µg/l	**35**	**40**	**42**
Boron	T6	AR	10	µg/l	**2200**	**2100**	**2200**
Cd (Dissolved)	T281	AR	0.02	µg/l	**0.13**	**0.14**	**0.22**
Cr (Dissolved)	T281	AR	1	µg/l	**2**	**2**	**3**
Chromium (trivalent)	T85	AR	3	µg/l	<3	<3	<3
Chromium VI	T686	AR	3	µg/l	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**170**	**280**	**320**
Pb (Dissolved)	T281	AR	0.3	µg/l	**0.7**	**0.6**	**0.5**
Hg (Dissolved)	T281	AR	0.05	µg/l	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l	**6**	**6**	**7**
Se (Dissolved)	T281	AR	0.5	µg/l	**100**	**110**	**120**
Zn (Dissolved)	T281	AR	2	µg/l	**12**	**12**	**13**
Calcium	T6	AR	100	µg/l	**170000**	**170000**	**190000**
Magnesium	T6	AR	100	µg/l	**600000**	**650000**	**640000**
Potassium	T6	AR	100	µg/l	**260000**	**280000**	**280000**
Sodium	T6	AR	100	µg/l	**4000000**	**4300000**	**4300000**
Nitrate	T686	AR	0.5	mg/l	**1.9**	**2.5**	**3.6**
Nitrite	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	**0.5**	**0.6**	**0.8**
Sulphate	T686	AR	0.5	mg/l	**1400**	**1500**	**1400**
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**490**	**470**	**490**
Chloride	T686	AR	1	mg/l	**12000**	**12000**	**11000**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**0.39**	**0.44**	**0.49**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**0.50**	**0.57**	**0.63**
Suspended Solids (Total)	T2	AR	10	mg/l	**30**	<10	**47**
Electrical Conductivity	T7	AR	10	µS/cm	**2800**	**2900**	**2900**
Total Phenols	T16	AR	0.5	µg/l	**0.7**	<0.5	<0.5
Cyanide(Total)	T220	AR	10	µg/l	<10	<10	<10
Cyanide(free)	T220	AR	10	µg/l	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Acenaphthylene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Chrysene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Fluorene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Naphthalene	T149	AR	0.01	µg/l	<0.01	**0.01**	<0.01
Phenanthrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
PAH(total)	T149	AR	0.01	µg/l	<0.01	**0.01**	<0.01
TPH (C8-C10) DW	T81	AR	10	µg/l	<10	<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l	<10	<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l	<10	<10	<10
TPH (C16-C21) DW	T81	AR	10	µg/l	<10	<10	<10
TPH (C21-C35) DW	T81	AR	10	µg/l	<10	<10	<10
TPH (C35-C40)	T81	AR	10	µg/l	<10	<10	<10
TPH (C8 - C40)	T85	AR	10	µg/l	<10	<10	<10

Index to symbols used in 347221-1

Value	Description
10:1	Leachate to BS EN 12457-2 (10:1)
AR	As Received
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
N.D.	Not Detected
9	LOD raised due to dilution of sample
W	Analysis was performed at another SAL laboratory
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T2	Grav
T686	Discrete Analyser
T162	Grav (1 Dec) (105 C)
T209	GC/MS(Head Space)(MCERTS)
T65	ICP/OES (Preconc.)
T1	GC/MS (HR)
T207	GC/MS(MCERTS)
T277	Grav (1 Dec) (40 C)
T7	Probe
T85	Calc
T27	PLM
T8	GC/FID
T149	GC/MS (SIR)
T281	ICP/MS (Filtered)
T546	Colorimetry (CF)
T6	ICP/OES
T4	Colorimetry
T286	Calc TOC/100
T179	Colorimetry (XION 500)
T16	GC/MS
T220	Colorimetry (SD)
T206	GC/FID (MCERTS)
T81	GC/FID (LV)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture @ 105 C	T162	AR	0.1	%	N	001,006,009-010,012,014,017,023,025,029,038
Moisture	T277	AR	0.1	%	N	001,006,009-010,012,014,017,023,025,029,038
Asbestos ID	T27	AR			SU	001,010,014,017,023,025
pH	T7	AR			M	001,006,009-010,012,014,017,023,025,029,038
Mass Fraction of organic carbon	T286	M40			N	006,012,025,038
Arsenic	T6	M40	2	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Boron (water-soluble)	T6	AR	1	mg/kg	N	001,006,009-010,012,014,017,023,025,029,038
Cadmium	T6	M40	1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Chromium	T6	M40	1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Chromium (trivalent)	T85	AR	2	mg/kg	N	001,006,009-010,012,014,017,023,025,029,038
Chromium VI	T6	AR	1	mg/kg	N	001,006,009-010,012,014,017,023,025,029,038
Copper	T6	M40	1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Lead	T6	M40	1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Mercury	T6	M40	1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Nickel	T6	M40	1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Selenium	T6	M40	3	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Zinc	T6	M40	1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Cyanide(Total)	T546	AR	1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Cyanide(free)	T546	AR	1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
SO4(Total)	T6	M40	0.01	%	N	001,006,009-010,012,014,017,023,025,029,038

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Total Phenols	T149	AR	0.01	mg/kg	U	001,006,009-010,012,014,017,023,025,029,038
Acenaphthene	T207	M105	0.1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Acenaphthylene	T207	M105	0.1	mg/kg	U	001,006,009-010,012,014,017,023,025,029,038
Anthracene	T207	M105	0.1	mg/kg	U	001,006,009-010,012,014,017,023,025,029,038
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Chrysene	T207	M105	0.1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Fluoranthene	T207	M105	0.1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Fluorene	T207	M105	0.1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Naphthalene	T207	M105	0.1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Phenanthrene	T207	M105	0.1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
Pyrene	T207	M105	0.1	mg/kg	M	001,006,009-010,012,014,017,023,025,029,038
PAH(total)	T207	M105	0.1	mg/kg	U	001,006,009-010,012,014,017,023,025,029,038
TPH (C8-C10)	T8	M105	1	mg/kg	N	001,006,009-010,012,025,029,038
TPH (C10-C12)	T206	M105	1	mg/kg	M	001,006,009-010,012,025,029,038
TPH (C12-C16)	T206	M105	1	mg/kg	M	001,006,009-010,012,025,029,038
TPH (C16-C21)	T206	M105	1	mg/kg	M	001,006,009-010,012,025,029,038
TPH (C21-C35)	T206	M105	1	mg/kg	M	001,006,009-010,012,025,029,038
TPH (C35-C40)	T8	M105	1	mg/kg	N	001,006,009-010,012,025,029,038
TPH (C8 - C40)	T85	M105	1	mg/kg	N	001,006,009-010,012,025,029,038
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	N	014,017,023
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	N	014,017,023
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	N	014,017,023
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	M	014,017,023
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	M	014,017,023
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	M	014,017,023
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	M	014,017,023
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	N	014,017,023
TPH (Aliphatic) total	T85	M105		mg/kg	N	014,017,023
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	N	014,017,023
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	N	014,017,023
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	N	014,017,023
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	M	014,017,023
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	M	014,017,023
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	M	014,017,023
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	M	014,017,023
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	N	014,017,023
TPH (Aromatic) total	T85	M105		mg/kg	N	014,017,023
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N	014,017,023
EthylBenzene	T209	M105	0.010	mg/kg	M	014,017,023
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	M	014,017,023
O Xylene	T209	M105	0.010	mg/kg	M	014,017,023
M/P Xylene	T209	M105	0.010	mg/kg	M	014,017,023
PCB BZ#101	T1	M105	0.00005	mg/kg	M	014,017,023
PCB BZ#118	T1	M105	0.00005	mg/kg	M	014,017,023
PCB BZ#138	T1	M105	0.00005	mg/kg	M	014,017,023
PCB BZ#153	T1	M105	0.00005	mg/kg	M	014,017,023
PCB BZ#180	T1	M105	0.00005	mg/kg	M	014,017,023
PCB BZ#28	T1	M105	0.00005	mg/kg	M	014,017,023
PCB BZ#52	T1	M105	0.00005	mg/kg	M	014,017,023
pH	T7	10:1			U	017,025
As (Dissolved)	T281	10:1	0.2	µg/l	U	017,025
Boron	T6	10:1	10	µg/l	N	017,025
Cd (Dissolved)	T281	10:1	0.02	µg/l	U	017,025
Cr (Dissolved)	T281	10:1	1	µg/l	U	017,025
Chromium (trivalent)	T85	10:1	3	µg/l	N	017,025
Chromium VI	T686	10:1	3	µg/l	U	017,025
Cu (Dissolved)	T281	10:1	0.5	µg/l	U	017,025
Pb (Dissolved)	T281	10:1	0.3	µg/l	U	017,025
Hg (Dissolved)	T281	10:1	0.05	µg/l	U	017,025
Ni (Dissolved)	T281	10:1	1	µg/l	U	017,025
Se (Dissolved)	T281	10:1	0.5	µg/l	U	017,025
Zn (Dissolved)	T281	10:1	2	µg/l	U	017,025
Sulphate	T686	10:1	0.5	mg/l	U	017,025
Sulphide	T4	10:1	0.05	mg/l	N	017,025

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Sulphur (total)	T65	10:1	0.01	mg/l	N	017,025
Total Phenols	T16	10:1	0.5	µg/l	U	017,025
Cyanide(Total)	T220	10:1	10	µg/l	WU	017,025
Cyanide(free)	T220	10:1	10	µg/l	WN	017,025
Acenaphthene	T149	10:1	0.01	µg/l	U	017,025
Acenaphthylene	T149	10:1	0.01	µg/l	U	017,025
Anthracene	T149	10:1	0.01	µg/l	U	017,025
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	U	017,025
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	U	017,025
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	U	017,025
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	U	017,025
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	U	017,025
Chrysene	T149	10:1	0.01	µg/l	U	017,025
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	U	017,025
Fluoranthene	T149	10:1	0.01	µg/l	U	017,025
Fluorene	T149	10:1	0.01	µg/l	U	017,025
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	U	017,025
Naphthalene	T149	10:1	0.01	µg/l	U	017,025
Phenanthrene	T149	10:1	0.01	µg/l	U	017,025
Pyrene	T149	10:1	0.01	µg/l	U	017,025
PAH(total)	T149	10:1	0.01	µg/l	U	017,025
PAH (sum of 4)	T85	10:1		µg/l	N	017,025
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	U	017,025
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	N	017,025
TPH (C8-C10) DW	T81	10:1	10	µg/l	U	017,025
TPH (C10-C12) DW	T81	10:1	10	µg/l	U	017,025
TPH (C12-C16) DW	T81	10:1	10	µg/l	U	017,025
TPH (C16-C21) DW	T81	10:1	10	µg/l	U	017,025
TPH (C21-C35) DW	T81	10:1	10	µg/l	U	017,025
TPH (C35-C40)	T81	10:1	10	µg/l	N	017,025
TPH (C8 - C40)	T85	10:1	10	µg/l	N	017,025
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	014,017,023
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	014,017,023
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	014,017,023
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	014,017,023
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	014,017,023
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	014,017,023
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	014,017,023
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	014,017,023
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	U	014,017,023
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	014,017,023
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	014,017,023
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	014,017,023
2-Chlorophenol	T207	M105	0.1	mg/kg	M	014,017,023
2-methyl phenol	T207	M105	0.1	mg/kg	M	014,017,023
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	014,017,023
2-Nitroaniline	T207	M105	0.1	mg/kg	M	014,017,023
2-Nitrophenol	T207	M105	0.1	mg/kg	U	014,017,023
3-Nitroaniline	T207	M105	0.1	mg/kg	U	014,017,023
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	014,017,023
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	014,017,023
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	014,017,023
4-Chloroaniline	T207	M105	0.1	mg/kg	U	014,017,023
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	014,017,023
4-Nitroaniline	T207	M105	0.1	mg/kg	U	014,017,023
4-Nitrophenol	T207	M105	0.1	mg/kg	U	014,017,023
Azobenzene	T207	M105	0.1	mg/kg	M	014,017,023
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	014,017,023
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	014,017,023
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	014,017,023
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	014,017,023
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	014,017,023
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	014,017,023
Carbazole	T207	M105	0.1	mg/kg	U	014,017,023
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	014,017,023
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	014,017,023
Dibenzofuran	T207	M105	0.1	mg/kg	M	014,017,023
Diethyl phthalate	T207	M105	0.1	mg/kg	U	014,017,023
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	014,017,023
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	014,017,023

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	014,017,023
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	014,017,023
Hexachloroethane	T207	M105	0.1	mg/kg	U	014,017,023
Isophorone	T207	M105	0.1	mg/kg	U	014,017,023
Nitrobenzene	T207	M105	0.1	mg/kg	M	014,017,023
Pentachlorophenol	T207	M105	0.1	mg/kg	U	014,017,023
Phenol	T207	M105	0.1	mg/kg	M	014,017,023
pH	T7	AR			U	021-022,039
As (Dissolved)	T281	AR	0.2	µg/l	U	021-022,039
Boron	T6	AR	10	µg/l	N	021-022,039
Cd (Dissolved)	T281	AR	0.02	µg/l	U	021-022,039
Cr (Dissolved)	T281	AR	1	µg/l	U	021-022,039
Chromium (trivalent)	T85	AR	3	µg/l	N	021-022,039
Chromium VI	T686	AR	3	µg/l	U	021-022,039
Cu (Dissolved)	T281	AR	0.5	µg/l	U	021-022,039
Pb (Dissolved)	T281	AR	0.3	µg/l	U	021-022,039
Hg (Dissolved)	T281	AR	0.05	µg/l	U	021-022,039
Ni (Dissolved)	T281	AR	1	µg/l	U	021-022,039
Se (Dissolved)	T281	AR	0.5	µg/l	U	021-022,039
Zn (Dissolved)	T281	AR	2	µg/l	U	021-022,039
Calcium	T6	AR	100	µg/l	N	021-022,039
Magnesium	T6	AR	100	µg/l	N	021-022,039
Potassium	T6	AR	100	µg/l	N	021-022,039
Sodium	T6	AR	100	µg/l	N	021-022,039
Nitrate	T686	AR	0.5	mg/l	U	021-022,039
Nitrite	T686	AR	0.1	mg/l	U	021-022,039
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	021-022,039
Sulphate	T686	AR	0.5	mg/l	U	021-022,039
Sulphide	T4	AR	0.05	mg/l	N	021-022,039
Sulphur (total)	T65	AR	0.01	mg/l	N	021-022,039
Chloride	T686	AR	1	mg/l	U	021-022,039
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	021-022,039
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	021-022,039
Suspended Solids (Total)	T2	AR	10	mg/l	N	021-022,039
Electrical Conductivity	T7	AR	10	µS/cm	N	021-022,039
Total Phenols	T16	AR	0.5	µg/l	U	021-022,039
Cyanide(Total)	T220	AR	10	µg/l	WU	021-022,039
Cyanide(free)	T220	AR	10	µg/l	WN	021-022,039
Acenaphthene	T149	AR	0.01	µg/l	U	021-022,039
Acenaphthylene	T149	AR	0.01	µg/l	U	021-022,039
Anthracene	T149	AR	0.01	µg/l	U	021-022,039
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	021-022,039
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	021-022,039
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	021-022,039
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	021-022,039
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	021-022,039
Chrysene	T149	AR	0.01	µg/l	U	021-022,039
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	021-022,039
Fluoranthene	T149	AR	0.01	µg/l	U	021-022,039
Fluorene	T149	AR	0.01	µg/l	U	021-022,039
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	021-022,039
Naphthalene	T149	AR	0.01	µg/l	U	021-022,039
Phenanthrene	T149	AR	0.01	µg/l	U	021-022,039
Pyrene	T149	AR	0.01	µg/l	U	021-022,039
PAH(total)	T149	AR	0.01	µg/l	U	021-022,039
TPH (C8-C10) DW	T81	AR	10	µg/l	U	021-022,039
TPH (C10-C12) DW	T81	AR	10	µg/l	U	021-022,039
TPH (C12-C16) DW	T81	AR	10	µg/l	U	021-022,039
TPH (C16-C21) DW	T81	AR	10	µg/l	U	021-022,039
TPH (C21-C35) DW	T81	AR	10	µg/l	U	021-022,039
TPH (C35-C40)	T81	AR	10	µg/l	N	021-022,039
TPH (C8 - C40)	T85	AR	10	µg/l	N	021-022,039
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	M	014,017,023
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	M	014,017,023
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	U	014,017,023
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	M	014,017,023
1,1-Dichloroethane	T209	M105	0.050	mg/kg	M	014,017,023
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	M	014,017,023
1,1-Dichloropropene	T209	M105	0.050	mg/kg	M	014,017,023
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	U	014,017,023

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	M	014,017,023
1,2-dibromoethane	T209	M105	0.050	mg/kg	M	014,017,023
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	M	014,017,023
1,2-Dichloroethane	T209	M105	0.050	mg/kg	M	014,017,023
1,2-Dichloropropane	T209	M105	0.050	mg/kg	M	014,017,023
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	M	014,017,023
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	M	014,017,023
1,3-Dichloropropane	T209	M105	0.050	mg/kg	M	014,017,023
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	M	014,017,023
2,2-Dichloropropane	T209	M105	0.050	mg/kg	U	014,017,023
2-Chlorotoluene	T209	M105	0.050	mg/kg	U	014,017,023
4-Chlorotoluene	T209	M105	0.050	mg/kg	U	014,017,023
Benzene	T209	M105	0.010	mg/kg	M	014,017,023
Bromobenzene	T209	M105	0.050	mg/kg	M	014,017,023
Bromochloromethane	T209	M105	0.050	mg/kg	M	014,017,023
Bromodichloromethane	T209	M105	0.050	mg/kg	M	014,017,023
Bromoform	T209	M105	0.050	mg/kg	M	014,017,023
Bromomethane	T209	M105	0.050	mg/kg	U	014,017,023
Carbon tetrachloride	T209	M105	0.050	mg/kg	M	014,017,023
Chlorobenzene	T209	M105	0.050	mg/kg	M	014,017,023
Chlorodibromomethane	T209	M105	0.050	mg/kg	M	014,017,023
Chloroethane	T209	M105	0.050	mg/kg	M	014,017,023
Chloroform	T209	M105	0.050	mg/kg	M	014,017,023
Chloromethane	T209	M105	0.050	mg/kg	U	014,017,023
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	M	014,017,023
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	014,017,023
Dibromomethane	T209	M105	0.050	mg/kg	M	014,017,023
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	M	014,017,023
Dichloromethane	T209	M105	0.050	mg/kg	U	014,017,023
Isopropyl benzene	T209	M105	0.050	mg/kg	M	014,017,023
n-Propylbenzene	T209	M105	0.050	mg/kg	M	014,017,023
p-Isopropyltoluene	T209	M105	0.050	mg/kg	M	014,017,023
S-Butylbenzene	T209	M105	0.050	mg/kg	M	014,017,023
Styrene	T209	M105	0.050	mg/kg	U	014,017,023
T-Butylbenzene	T209	M105	0.050	mg/kg	M	014,017,023
Tetrachloroethene	T209	M105	0.050	mg/kg	M	014,017,023
Toluene	T209	M105	0.010	mg/kg	M	014,017,023
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	M	014,017,023
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	014,017,023
Trichloroethene	T209	M105	0.050	mg/kg	M	014,017,023
Trichlorofluoromethane	T209	M105	0.050	mg/kg	M	014,017,023
Vinyl chloride	T209	M105	0.050	mg/kg	M	014,017,023

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Certificate of Analysis

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Report Number: 347607-1

Date of Report: 10-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112360
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 38
Date Job Received at SAL: 23-Aug-2013
Date Analysis Started: 30-Aug-2013
Date Analysis Completed: 10-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

[redacted]

SAL Reference: 347607
Project Site: A63 Castle St - 38
Customer Reference: 112360

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**347607 003**	**347607 006**	**347607 010**
				Customer Sample Reference	**WS10 ES 005 1.3-1.6**	**WS09 ES 001 2.0-2.2**	**SCPT21 ES 001 0.5**
				Depth	**1.6**		
				Date Sampled	**22-AUG-2013**	**22-AUG-2013**	**22-AUG-2013**
				Top Depth	**1.3**	**2.0-2.2**	**0.5**
				Type	**Sandy Soil**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Moisture @ 105 C	T162	AR	0.1	%	**23**	**23**	**18**
Moisture	T277	AR	0.1	%	**20**	**24**	**18**
Asbestos ID	T27	AR			N.D.	-	N.D.
pH	T7	AR			**8.0**	**8.8**	**8.3**
Mass Fraction of organic carbon	T286	M40			-	**0.0082**	-
Arsenic	T6	M40	2	mg/kg	**25**	**16**	**17**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	**3**	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**34**	**25**	**35**
Chromium (trivalent)	T85	AR	2	mg/kg	**34**	**25**	**35**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1
Copper	T6	M40	1	mg/kg	**53**	**60**	**26**
Lead	T6	M40	1	mg/kg	**250**	**75**	**78**
Mercury	T6	M40	1	mg/kg	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**28**	**27**	**34**
Selenium	T6	M40	3	mg/kg	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**120**	**88**	**120**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.27**	**0.09**	**0.16**
Total Phenols	T149	AR	0.01	mg/kg	**0.04**	**0.01**	**0.01**
Acenaphthene	T207	M105	0.1	mg/kg	**0.9**	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	**1.7**	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**3.9**	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**3.0**	<0.1	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**3.4**	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**1.3**	<0.1	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**3.0**	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	**3.4**	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	**0.5**	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**12**	<0.1	**0.2**
Fluorene	T207	M105	0.1	mg/kg	**0.8**	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**1.3**	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	**1.0**	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**6.9**	<0.1	**0.1**
Pyrene	T207	M105	0.1	mg/kg	**9.8**	<0.1	**0.1**
PAH(total)	T207	M105	0.1	mg/kg	**53**	<0.1	**0.4**
TPH (C8-C10)	T8	M105	1	mg/kg	-	<1	-
TPH (C10-C12)	T206	M105	1	mg/kg	-	<1	-
TPH (C12-C16)	T206	M105	1	mg/kg	-	<1	-
TPH (C16-C21)	T206	M105	1	mg/kg	-	**1**	-
TPH (C21-C35)	T206	M105	1	mg/kg	-	**6**	-
TPH (C35-C40)	T8	M105	1	mg/kg	-	**1**	-
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	<0.100	-	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	<0.10	-	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	<0.10	-	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	(9) <10	-	<1
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	(9) <10	-	<2
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	(9) <10	-	<1
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	(9) <10	-	<4
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	(9) <10	-	<1
TPH (Aliphatic) total	T85	M105		mg/kg	(9) <10	-	N.D.
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	<0.10	-	<0.10

SAL Reference: 347607
Project Site: A63 Castle St - 38
Customer Reference: 112360

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**347607 003**	**347607 006**	**347607 010**
				Customer Sample Reference	**WS10 ES 005 1.3-1.6**	**WS09 ES 001 2.0-2.2**	**SCPT21 ES 001 0.5**
				Depth	**1.6**		
				Date Sampled	**22-AUG-2013**	**22-AUG-2013**	**22-AUG-2013**
				Top Depth	**1.3**	**2.0-2.2**	**0.5**
				Type	**Sandy Soil**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	<0.10	-	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	<0.10	-	<0.10
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	(9) <10	-	<1
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	**21**	-	<1
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	**180**	-	<1
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	**270**	-	<1
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	(9) <10	-	<1
TPH (Aromatic) total	T85	M105		mg/kg	**470**	-	N.D.
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	**470**	-	N.D.
Benzene	T209	M105	0.010	mg/kg	<0.010	-	<0.010
Toluene	T209	M105	0.010	mg/kg	<0.010	-	<0.010
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	-	<0.010
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	<0.010	-	<0.010
O Xylene	T209	M105	0.010	mg/kg	<0.010	-	<0.010
M/P Xylene	T209	M105	0.010	mg/kg	<0.010	-	<0.010
PCB BZ#101	T1	M105	0.00005	mg/kg	(62) <0.00010	-	-
PCB BZ#118	T1	M105	0.00005	mg/kg	(62) <0.00010	-	-
PCB BZ#138	T1	M105	0.00005	mg/kg	(62) <0.00010	-	-
PCB BZ#153	T1	M105	0.00005	mg/kg	(62) <0.00010	-	-
PCB BZ#180	T1	M105	0.00005	mg/kg	(62) <0.00010	-	-
PCB BZ#28	T1	M105	0.00005	mg/kg	(62) <0.00010	-	-
PCB BZ#52	T1	M105	0.00005	mg/kg	(62) <0.00010	-	-

SAL Reference: 347607
Project Site: A63 Castle St - 38
Customer Reference: 112360

Soil Analysed as Soil

Volatile Organic Compounds (USEPA 624) (MCERTS)

SAL Reference	**347607 003**
Customer Sample Reference	**WS10 ES 005 1.3-1.6**
Depth	**1.6**
Date Sampled	**22-AUG-2013**
Top Depth	**1.3**
Type	**Sandy Soil**

Determinand	Method	Test Sample	LOD	Units	
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	<0.050
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	<0.050
1,1-Dichloroethane	T209	M105	0.050	mg/kg	<0.050
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050
1,1-Dichloropropene	T209	M105	0.050	mg/kg	<0.050
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	<0.050
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050
1,2-dibromoethane	T209	M105	0.050	mg/kg	<0.050
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050
1,2-Dichloroethane	T209	M105	0.050	mg/kg	<0.050
1,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050
1,3-Dichloropropane	T209	M105	0.050	mg/kg	<0.050
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050
2,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050
2-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050
4-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050
Benzene	T209	M105	0.010	mg/kg	<0.010
Bromobenzene	T209	M105	0.050	mg/kg	<0.050
Bromochloromethane	T209	M105	0.050	mg/kg	<0.050
Bromodichloromethane	T209	M105	0.050	mg/kg	<0.050
Bromoform	T209	M105	0.050	mg/kg	<0.050
Bromomethane	T209	M105	0.050	mg/kg	<0.050
Carbon tetrachloride	T209	M105	0.050	mg/kg	<0.050
Chlorobenzene	T209	M105	0.050	mg/kg	<0.050
Chlorodibromomethane	T209	M105	0.050	mg/kg	<0.050
Chloroethane	T209	M105	0.050	mg/kg	<0.050
Chloroform	T209	M105	0.050	mg/kg	<0.050
Chloromethane	T209	M105	0.050	mg/kg	<0.050
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050
Dibromomethane	T209	M105	0.050	mg/kg	<0.050
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	<0.050
Dichloromethane	T209	M105	0.050	mg/kg	<0.050
EthylBenzene	T209	M105	0.010	mg/kg	<0.010
Isopropyl benzene	T209	M105	0.050	mg/kg	<0.050
M/P Xylene	T209	M105	0.010	mg/kg	<0.010
n-Propylbenzene	T209	M105	0.050	mg/kg	<0.050
O Xylene	T209	M105	0.010	mg/kg	<0.010
p-Isopropyltoluene	T209	M105	0.050	mg/kg	<0.050
S-Butylbenzene	T209	M105	0.050	mg/kg	<0.050
Styrene	T209	M105	0.050	mg/kg	<0.050
T-Butylbenzene	T209	M105	0.050	mg/kg	<0.050
Tetrachloroethene	T209	M105	0.050	mg/kg	<0.050
Toluene	T209	M105	0.010	mg/kg	<0.010
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	<0.050
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050
Trichloroethene	T209	M105	0.050	mg/kg	<0.050
Trichlorofluoromethane	T209	M105	0.050	mg/kg	<0.050
Vinyl chloride	T209	M105	0.050	mg/kg	<0.050

SAL Reference: 347607
Project Site: A63 Castle St - 38
Customer Reference: 112360

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

SAL Reference	**347607 003**
Customer Sample Reference	**WS10 ES 005 1.3-1.6**
Depth	**1.6**
Date Sampled	**22-AUG-2013**
Top Depth	**1.3**
Type	**Sandy Soil**

Determinand	Method	Test Sample	LOD	Units	
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	<0.1
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	**0.3**
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	<0.1
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1
4-Nitrophenol	T207	M105	0.1	mg/kg	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	**0.9**
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1
Anthracene	T207	M105	0.1	mg/kg	**1.7**
Azobenzene	T207	M105	0.1	mg/kg	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**3.9**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**3.0**
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	**6.5**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**1.3**
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	<0.1
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1
Carbazole	T207	M105	0.1	mg/kg	<0.1
Chrysene	T207	M105	0.1	mg/kg	**3.4**
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	**0.5**
Dibenzofuran	T207	M105	0.1	mg/kg	**0.6**
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**12**
Fluorene	T207	M105	0.1	mg/kg	**0.8**
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**1.3**
Isophorone	T207	M105	0.1	mg/kg	<0.1
Naphthalene	T207	M105	0.1	mg/kg	**1.0**
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	<0.1

SAL Reference: 347607
Project Site: A63 Castle St - 38
Customer Reference: 112360

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

SAL Reference	**347607 003**
Customer Sample Reference	**WS10 ES 005 1.3-1.6**
Depth	**1.6**
Date Sampled	**22-AUG-2013**
Top Depth	**1.3**
Type	**Sandy Soil**

Determinand	Method	Test Sample	LOD	Units	
Phenanthrene	T207	M105	0.1	mg/kg	**6.9**
Phenol	T207	M105	0.1	mg/kg	<0.1
Pyrene	T207	M105	0.1	mg/kg	**9.8**

SAL Reference: 347607
Project Site: A63 Castle St - 38
Customer Reference: 112360

Water Analysed as Water
Grontmij A63 Hull Standard Suite

SAL Reference	**347607 008**
Customer Sample Reference	**BH24 EW 044 8.05**
Depth	**8.05**
Date Sampled	**22-AUG-2013**

Determinand	Method	Test Sample	LOD	Units	
pH	T7	AR			**7.0**
As (Dissolved)	T281	AR	0.2	µg/l	**150**
Boron	T6	AR	10	µg/l	**630**
Cd (Dissolved)	T281	AR	0.02	µg/l	<0.02
Cr (Dissolved)	T281	AR	1	µg/l	**110**
Chromium (trivalent)	T85	AR	3	µg/l	**110**
Chromium VI	T686	AR	3	µg/l	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**57**
Pb (Dissolved)	T281	AR	0.3	µg/l	**6.5**
Hg (Dissolved)	T281	AR	0.05	µg/l	<0.05
Ni (Dissolved)	T281	AR	1	µg/l	**8**
Se (Dissolved)	T281	AR	0.5	µg/l	**59**
Zn (Dissolved)	T281	AR	2	µg/l	<2
Calcium	T6	AR	100	µg/l	**210000**
Magnesium	T6	AR	100	µg/l	**350000**
Potassium	T6	AR	100	µg/l	**120000**
Sodium	T6	AR	100	µg/l	**2400000**
Nitrate	T686	AR	0.5	mg/l	<0.5
Nitrite	T686	AR	0.1	mg/l	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	<0.1
Sulphate	T686	AR	0.5	mg/l	<0.5
Sulphide	T4	AR	0.05	mg/l	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**9.2**
Chloride	T686	AR	1	mg/l	**6000**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**51**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**66**
Suspended Solids (Total)	T2	AR	10	mg/l	**49000**
Electrical Conductivity	T7	AR	10	µS/cm	**12000**
Total Phenols	T16	AR	0.5	µg/l	<0.5
Cyanide(Total)	T220	AR	10	µg/l	<10
Cyanide(free)	T220	AR	10	µg/l	<10
Acenaphthene	T149	AR	0.01	µg/l	**0.02**
Acenaphthylene	T149	AR	0.01	µg/l	**0.02**
Anthracene	T149	AR	0.01	µg/l	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	<0.01
Chrysene	T149	AR	0.01	µg/l	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	<0.01
Fluoranthene	T149	AR	0.01	µg/l	<0.01
Fluorene	T149	AR	0.01	µg/l	**0.02**
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	<0.01
Naphthalene	T149	AR	0.01	µg/l	**0.05**
Phenanthrene	T149	AR	0.01	µg/l	**0.01**
Pyrene	T149	AR	0.01	µg/l	<0.01
PAH(total)	T149	AR	0.01	µg/l	**0.12**
TPH (C8-C10) DW	T81	AR	10	µg/l	(100) <20
TPH (C10-C12) DW	T81	AR	10	µg/l	(100) <20
TPH (C12-C16) DW	T81	AR	10	µg/l	(100) <20
TPH (C16-C21) DW	T81	AR	10	µg/l	(100) <20
TPH (C21-C35) DW	T81	AR	10	µg/l	(100) <20
TPH (C35-C40)	T81	AR	10	µg/l	(100) <20
TPH (C8 - C40)	T85	AR	10	µg/l	(100) <20

Index to symbols used in 347607-1

Value	Description
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
AR	As Received
N.D.	Not Detected
9	LOD raised due to dilution of sample
62	LOD was raised due to the method performance of the analytical procedure used
100	LOD determined by sample aliquot used for analysis
W	Analysis was performed at another SAL laboratory
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T4	Colorimetry
T2	Grav
T85	Calc
T206	GC/FID (MCERTS)
T8	GC/FID
T1	GC/MS (HR)
T65	ICP/OES (Preconc.)
T162	Grav (1 Dec) (105 C)
T179	Colorimetry (XION 500)
T686	Discrete Analyser
T149	GC/MS (SIR)
T81	GC/FID (LV)
T207	GC/MS(MCERTS)
T27	PLM
T281	ICP/MS (Filtered)
T6	ICP/OES
T286	Calc TOC/100
T7	Probe
T277	Grav (1 Dec) (40 C)
T220	Colorimetry (SD)
T546	Colorimetry (CF)
T16	GC/MS
T209	GC/MS(Head Space)(MCERTS)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture @ 105 C	T162	AR	0.1	%	N	003,006,010
Moisture	T277	AR	0.1	%	N	003,006,010
Asbestos ID	T27	AR			SU	003,010
pH	T7	AR			M	003,006,010
Mass Fraction of organic carbon	T286	M40			N	006
Arsenic	T6	M40	2	mg/kg	M	003,006,010
Boron (water-soluble)	T6	AR	1	mg/kg	N	003,006,010
Cadmium	T6	M40	1	mg/kg	M	003,006,010
Chromium	T6	M40	1	mg/kg	M	003,006,010
Chromium (trivalent)	T85	AR	2	mg/kg	N	003,006,010
Chromium VI	T6	AR	1	mg/kg	N	003,006,010
Copper	T6	M40	1	mg/kg	M	003,006,010
Lead	T6	M40	1	mg/kg	M	003,006,010
Mercury	T6	M40	1	mg/kg	M	003,006,010
Nickel	T6	M40	1	mg/kg	M	003,006,010
Selenium	T6	M40	3	mg/kg	M	003,006,010
Zinc	T6	M40	1	mg/kg	M	003,006,010
Cyanide(Total)	T546	AR	1	mg/kg	M	003,006,010
Cyanide(free)	T546	AR	1	mg/kg	M	003,006,010
SO4(Total)	T6	M40	0.01	%	N	003,006,010
Total Phenols	T149	AR	0.01	mg/kg	U	003,006,010

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Acenaphthene	T207	M105	0.1	mg/kg	M	003,006,010
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	003,006,010
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	003,006,010
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	003,006,010
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	003,006,010
Chrysene	T207	M105	0.1	mg/kg	M	003,006,010
PAH(total)	T207	M105	0.1	mg/kg	U	003,006,010
TPH (C8-C10)	T8	M105	1	mg/kg	N	006
TPH (C10-C12)	T206	M105	1	mg/kg	M	006
TPH (C12-C16)	T206	M105	1	mg/kg	M	006
TPH (C16-C21)	T206	M105	1	mg/kg	M	006
TPH (C21-C35)	T206	M105	1	mg/kg	M	006
TPH (C35-C40)	T8	M105	1	mg/kg	N	006
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	N	003,010
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	N	003,010
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	N	003,010
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	M	003,010
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	M	003,010
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	M	003,010
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	M	003,010
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	N	003,010
TPH (Aliphatic) total	T85	M105		mg/kg	N	003,010
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	N	003,010
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	N	003,010
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	N	003,010
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	M	003,010
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	M	003,010
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	M	003,010
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	M	003,010
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	N	003,010
TPH (Aromatic) total	T85	M105		mg/kg	N	003,010
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N	003,010
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	M	003,010
O Xylene	T209	M105	0.010	mg/kg	M	003,010
M/P Xylene	T209	M105	0.010	mg/kg	M	003,010
PCB BZ#101	T1	M105	0.00005	mg/kg	M	003
PCB BZ#118	T1	M105	0.00005	mg/kg	M	003
PCB BZ#138	T1	M105	0.00005	mg/kg	M	003
PCB BZ#153	T1	M105	0.00005	mg/kg	M	003
PCB BZ#180	T1	M105	0.00005	mg/kg	M	003
PCB BZ#28	T1	M105	0.00005	mg/kg	M	003
PCB BZ#52	T1	M105	0.00005	mg/kg	M	003
pH	T7	AR			U	008
As (Dissolved)	T281	AR	0.2	µg/l	U	008
Boron	T6	AR	10	µg/l	N	008
Cd (Dissolved)	T281	AR	0.02	µg/l	U	008
Cr (Dissolved)	T281	AR	1	µg/l	U	008
Chromium (trivalent)	T85	AR	3	µg/l	N	008
Chromium VI	T686	AR	3	µg/l	U	008
Cu (Dissolved)	T281	AR	0.5	µg/l	U	008
Pb (Dissolved)	T281	AR	0.3	µg/l	U	008
Hg (Dissolved)	T281	AR	0.05	µg/l	U	008
Ni (Dissolved)	T281	AR	1	µg/l	U	008
Se (Dissolved)	T281	AR	0.5	µg/l	U	008
Zn (Dissolved)	T281	AR	2	µg/l	U	008
Calcium	T6	AR	100	µg/l	N	008
Magnesium	T6	AR	100	µg/l	N	008
Potassium	T6	AR	100	µg/l	N	008
Sodium	T6	AR	100	µg/l	N	008
Nitrate	T686	AR	0.5	mg/l	U	008
Nitrite	T686	AR	0.1	mg/l	U	008
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	008
Sulphate	T686	AR	0.5	mg/l	U	008
Sulphide	T4	AR	0.05	mg/l	N	008
Sulphur (total)	T65	AR	0.01	mg/l	N	008
Chloride	T686	AR	1	mg/l	U	008
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	008
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	008
Suspended Solids (Total)	T2	AR	10	mg/l	N	008
Electrical Conductivity	T7	AR	10	µS/cm	N	008

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Total Phenols	T16	AR	0.5	µg/l	U	008
Cyanide(Total)	T220	AR	10	µg/l	WU	008
Cyanide(free)	T220	AR	10	µg/l	WN	008
Acenaphthene	T149	AR	0.01	µg/l	U	008
Acenaphthylene	T149	AR	0.01	µg/l	U	008
Anthracene	T149	AR	0.01	µg/l	U	008
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	008
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	008
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	008
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	008
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	008
Chrysene	T149	AR	0.01	µg/l	U	008
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	008
Fluoranthene	T149	AR	0.01	µg/l	U	008
Fluorene	T149	AR	0.01	µg/l	U	008
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	008
Naphthalene	T149	AR	0.01	µg/l	U	008
Phenanthrene	T149	AR	0.01	µg/l	U	008
Pyrene	T149	AR	0.01	µg/l	U	008
PAH(total)	T149	AR	0.01	µg/l	U	008
TPH (C8-C10) DW	T81	AR	10	µg/l	U	008
TPH (C10-C12) DW	T81	AR	10	µg/l	U	008
TPH (C12-C16) DW	T81	AR	10	µg/l	U	008
TPH (C16-C21) DW	T81	AR	10	µg/l	U	008
TPH (C21-C35) DW	T81	AR	10	µg/l	U	008
TPH (C35-C40)	T81	AR	10	µg/l	N	008
TPH (C8 - C40)	T85	AR	10	µg/l	N	008
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	003
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	003
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	003
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	003
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	003
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	003
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	003
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	003
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	U	003
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	003
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	003
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	003
2-Chlorophenol	T207	M105	0.1	mg/kg	M	003
2-methyl phenol	T207	M105	0.1	mg/kg	M	003
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	003
2-Nitroaniline	T207	M105	0.1	mg/kg	M	003
2-Nitrophenol	T207	M105	0.1	mg/kg	U	003
3-Nitroaniline	T207	M105	0.1	mg/kg	U	003
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	003
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	003
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	003
4-Chloroaniline	T207	M105	0.1	mg/kg	U	003
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	003
4-Nitroaniline	T207	M105	0.1	mg/kg	U	003
4-Nitrophenol	T207	M105	0.1	mg/kg	U	003
Acenaphthylene	T207	M105	0.1	mg/kg	U	003,006,010
Anthracene	T207	M105	0.1	mg/kg	U	003,006,010
Azobenzene	T207	M105	0.1	mg/kg	M	003
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	003,006,010
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	003
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	003
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	003
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	003
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	003
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	003
Carbazole	T207	M105	0.1	mg/kg	U	003
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	003
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	003
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	003,006,010
Dibenzofuran	T207	M105	0.1	mg/kg	M	003
Diethyl phthalate	T207	M105	0.1	mg/kg	U	003
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	003
Fluoranthene	T207	M105	0.1	mg/kg	M	003,006,010

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Fluorene	T207	M105	0.1	mg/kg	M	003,006,010
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	003
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	003
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	003
Hexachloroethane	T207	M105	0.1	mg/kg	U	003
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	003,006,010
Isophorone	T207	M105	0.1	mg/kg	U	003
Naphthalene	T207	M105	0.1	mg/kg	M	003,006,010
Nitrobenzene	T207	M105	0.1	mg/kg	M	003
Pentachlorophenol	T207	M105	0.1	mg/kg	U	003
Phenanthrene	T207	M105	0.1	mg/kg	M	003,006,010
Phenol	T207	M105	0.1	mg/kg	M	003
Pyrene	T207	M105	0.1	mg/kg	M	003,006,010
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	M	003
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	M	003
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	U	003
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	M	003
1,1-Dichloroethane	T209	M105	0.050	mg/kg	M	003
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	M	003
1,1-Dichloropropene	T209	M105	0.050	mg/kg	M	003
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	U	003
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	M	003
1,2-dibromoethane	T209	M105	0.050	mg/kg	M	003
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	M	003
1,2-Dichloroethane	T209	M105	0.050	mg/kg	M	003
1,2-Dichloropropane	T209	M105	0.050	mg/kg	M	003
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	M	003
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	M	003
1,3-Dichloropropane	T209	M105	0.050	mg/kg	M	003
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	M	003
2,2-Dichloropropane	T209	M105	0.050	mg/kg	U	003
2-Chlorotoluene	T209	M105	0.050	mg/kg	U	003
4-Chlorotoluene	T209	M105	0.050	mg/kg	U	003
Benzene	T209	M105	0.010	mg/kg	M	003,010
Bromobenzene	T209	M105	0.050	mg/kg	M	003
Bromochloromethane	T209	M105	0.050	mg/kg	M	003
Bromodichloromethane	T209	M105	0.050	mg/kg	M	003
Bromoform	T209	M105	0.050	mg/kg	M	003
Bromomethane	T209	M105	0.050	mg/kg	U	003
Carbon tetrachloride	T209	M105	0.050	mg/kg	M	003
Chlorobenzene	T209	M105	0.050	mg/kg	M	003
Chlorodibromomethane	T209	M105	0.050	mg/kg	M	003
Chloroethane	T209	M105	0.050	mg/kg	M	003
Chloroform	T209	M105	0.050	mg/kg	M	003
Chloromethane	T209	M105	0.050	mg/kg	U	003
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	M	003
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	003
Dibromomethane	T209	M105	0.050	mg/kg	M	003
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	M	003
Dichloromethane	T209	M105	0.050	mg/kg	U	003
EthylBenzene	T209	M105	0.010	mg/kg	M	003,010
Isopropyl benzene	T209	M105	0.050	mg/kg	M	003
n-Propylbenzene	T209	M105	0.050	mg/kg	M	003
p-Isopropyltoluene	T209	M105	0.050	mg/kg	M	003
S-Butylbenzene	T209	M105	0.050	mg/kg	M	003
Styrene	T209	M105	0.050	mg/kg	U	003
T-Butylbenzene	T209	M105	0.050	mg/kg	M	003
Tetrachloroethene	T209	M105	0.050	mg/kg	M	003
Toluene	T209	M105	0.010	mg/kg	M	003,010
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	M	003
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	003
Trichloroethene	T209	M105	0.050	mg/kg	M	003
Trichlorofluoromethane	T209	M105	0.050	mg/kg	M	003
Vinyl chloride	T209	M105	0.050	mg/kg	M	003

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 348078-1

Date of Report: 10-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 39
Date Job Received at SAL: 28-Aug-2013
Date Analysis Started: 03-Sep-2013
Date Analysis Completed: 10-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

[redacted]

SAL Reference: 348078
Project Site: A63 Castle St - 39
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**348078 001**	**348078 005**	**348078 008**	**348078 010**	**348078 012**	**348078 013**	**348078 020**
				Customer Sample Reference	**BH25 ES 003 1.5**	**BH25 ES 013 4.0**	**BH25 ES 023 7.0**	**BH18 ES 001 0.3**	**SCPT14 ES 001 0.5**	**BH30 ES 003 1.0**	**BH30 ES 018 7.0**
				Top Depth	**1.5**	**4.0**	**7.0**	**0.3**	**0.5**	**1.0**	**7.0**
				Date Sampled	**27-AUG-2013**	**27-AUG-2013**	**27-AUG-2013**	**27-AUG-2013**	**27-AUG-2013**	**27-AUG-2013**	**27-AUG-2013**
				Type	**Clay**	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Moisture @ 105 C	T162	AR	0.1	%	**25**	**29**	**29**	**7.1**	**9.3**	**17**	**29**
Moisture	T277	AR	0.1	%	**21**	**29**	**28**	**6.3**	**9.2**	**17**	**29**
Asbestos ID	T27	AR			N.D.	-	-	N.D.	N.D.	N.D.	-
pH	T7	AR			**7.4**	**7.6**	**8.3**	**8.2**	**8.5**	**8.0**	**7.9**
Mass Fraction of organic carbon	T286	M40			-	-	**0.010**	-	-	-	**0.0098**
Arsenic	T6	M40	2	mg/kg	**9**	**9**	**8**	**21**	**19**	**12**	**8**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**15**	**24**	**17**	**20**	**21**	**22**	**18**
Chromium (trivalent)	T85	AR	2	mg/kg	**15**	**24**	**17**	**21**	**21**	**22**	**18**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**9**	**16**	**10**	**52**	**65**	**18**	**10**
Lead	T6	M40	1	mg/kg	**11**	**22**	**11**	**780**	**760**	**38**	**12**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**14**	**22**	**17**	**18**	**18**	**22**	**18**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**40**	**68**	**42**	**200**	**210**	**60**	**50**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**1.2**	**0.33**	**0.48**	**0.19**	**0.21**	**0.14**	**0.78**
Total Phenols	T149	AR	0.01	mg/kg	**0.01**	**0.01**	<0.01	**0.17**	**0.25**	<0.01	<0.01
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**1.7**	**0.4**	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.3**	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	**0.2**	<0.1	<0.1	**5.1**	**1.0**	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.4**	<0.1	<0.1	**10**	**5.5**	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**0.3**	<0.1	<0.1	**8.4**	**8.9**	<0.1	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**0.3**	<0.1	<0.1	**11**	**9.9**	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**3.9**	**5.2**	<0.1	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**0.2**	<0.1	<0.1	**5.9**	**10**	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	**0.4**	<0.1	<0.1	**8.2**	**6.1**	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**1.4**	**1.2**	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**1.2**	<0.1	<0.1	**14**	**19**	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**1.4**	**0.3**	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**0.1**	<0.1	<0.1	**4.1**	**4.4**	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**1.2**	**0.6**	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**0.8**	<0.1	<0.1	**14**	**3.5**	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	**1.0**	<0.1	<0.1	**11**	**25**	<0.1	<0.1
PAH(total)	T207	M105	0.1	mg/kg	**4.9**	<0.1	<0.1	**100**	**100**	<0.1	<0.1
TPH (C8-C10)	T8	AR	1	mg/kg	<1	<1	<1	-	<1	<1	-
TPH (C10-C12)	T206	AR	1	mg/kg	<1	<1	<1	-	**2**	<1	-
TPH (C12-C16)	T206	AR	1	mg/kg	**2**	<1	<1	-	**11**	<1	-
TPH (C16-C21)	T206	AR	1	mg/kg	**3**	<1	<1	-	**32**	**1**	-
TPH (C21-C35)	T206	AR	1	mg/kg	**7**	<1	<1	-	**92**	**8**	-
TPH (C35-C40)	T8	AR	1	mg/kg	<1	<1	<1	-	**11**	**3**	-
TPH (C8 - C40)	T85	AR	1	mg/kg	**12**	<1	<1	-	**148**	**12**	-
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	-	-	-	<0.100	-	-	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	-	-	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	-	-	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	-	-	-	<1	-	-	<1
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	-	-	-	<2	-	-	<2
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	-	-	-	**2**	-	-	<1
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	-	-	-	**7**	-	-	<4
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	-	-	-	<1	-	-	<1
TPH (Aliphatic) total	T85	M105		mg/kg	-	-	-	**9.0**	-	-	N.D.

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Soil Analysed as Soil
Miscellaneous

				SAL Reference	**348078 001**	**348078 005**	**348078 008**	**348078 010**	**348078 012**	**348078 013**	**348078 020**
				Customer Sample Reference	**BH25 ES 003 1.5**	**BH25 ES 013 4.0**	**BH25 ES 023 7.0**	**BH18 ES 001 0.3**	**SCPT14 ES 001 0.5**	**BH30 ES 003 1.0**	**BH30 ES 018 7.0**
				Top Depth	**1.5**	**4.0**	**7.0**	**0.3**	**0.5**	**1.0**	**7.0**
				Date Sampled	**27-AUG-2013**	**27-AUG-2013**	**27-AUG-2013**	**27-AUG-2013**	**27-AUG-2013**	**27-AUG-2013**	**27-AUG-2013**
				Type	**Clay**	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	-	-	<0.10
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	-	-	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	-	-	-	**0.16**	-	-	**0.12**
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	-	-	-	<1	-	-	<1
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	-	-	-	**6**	-	-	<1
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	-	-	-	**49**	-	-	<1
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	-	-	-	**75**	-	-	<1
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	-	-	-	**7**	-	-	<1
TPH (Aromatic) total	T85	M105		mg/kg	-	-	-	**140**	-	-	**0.12**
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	-	-	-	**150**	-	-	**0.12**
Benzene	T209	M105	0.010	mg/kg	-	-	-	<0.010	-	-	<0.010
Toluene	T209	M105	0.010	mg/kg	-	-	-	**0.022**	-	-	**0.073**
EthylBenzene	T209	M105	0.010	mg/kg	-	-	-	<0.010	-	-	<0.010
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	-	-	-	<0.010	-	-	<0.010
O Xylene	T209	M105	0.010	mg/kg	-	-	-	**0.024**	-	-	**0.028**
M/P Xylene	T209	M105	0.010	mg/kg	-	-	-	**0.060**	-	-	**0.053**
PCB BZ#101	T1	M105	0.00005	mg/kg	-	-	-	(9) <0.00050	-	-	-
PCB BZ#118	T1	M105	0.00005	mg/kg	-	-	-	(9) <0.00050	-	-	-
PCB BZ#138	T1	M105	0.00005	mg/kg	-	-	-	(9) <0.00050	-	-	-
PCB BZ#153	T1	M105	0.00005	mg/kg	-	-	-	(9) <0.00050	-	-	-
PCB BZ#180	T1	M105	0.00005	mg/kg	-	-	-	(9) <0.00050	-	-	-
PCB BZ#28	T1	M105	0.00005	mg/kg	-	-	-	(9) <0.00050	-	-	-
PCB BZ#52	T1	M105	0.00005	mg/kg	-	-	-	(9) <0.00050	-	-	-

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Soil Analysed as Soil

Volatile Organic Compounds (USEPA 624) (MCERTS)

				SAL Reference	**348078 010**	**348078 020**
				Customer Sample Reference	**BH18 ES 001 0.3**	**BH30 ES 018 7.0**
				Top Depth	**0.3**	**7.0**
				Date Sampled	**27-AUG-2013**	**27-AUG-2013**
				Type	**Sandy Soil**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,1-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	<0.050
1,1-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
1,2-dibromoethane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
1,2-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
1,3-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
2,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050
2-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	<0.050
4-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	<0.050
Benzene	T209	M105	0.010	mg/kg	<0.010	<0.010
Bromobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
Bromochloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Bromodichloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Bromoform	T209	M105	0.050	mg/kg	<0.050	<0.050
Bromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Carbon tetrachloride	T209	M105	0.050	mg/kg	<0.050	<0.050
Chlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
Chlorodibromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Chloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Chloroform	T209	M105	0.050	mg/kg	<0.050	<0.050
Chloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	<0.050
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050
Dibromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Dichloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	<0.010
Isopropyl benzene	T209	M105	0.050	mg/kg	<0.050	<0.050
M/P Xylene	T209	M105	0.010	mg/kg	**0.060**	**0.053**
n-Propylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
O Xylene	T209	M105	0.010	mg/kg	**0.024**	**0.028**
p-Isopropyltoluene	T209	M105	0.050	mg/kg	<0.050	<0.050
S-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
Styrene	T209	M105	0.050	mg/kg	<0.050	<0.050
T-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050
Tetrachloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050
Toluene	T209	M105	0.010	mg/kg	**0.022**	**0.073**
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050
Trichloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050
Trichlorofluoromethane	T209	M105	0.050	mg/kg	<0.050	<0.050
Vinyl chloride	T209	M105	0.050	mg/kg	<0.050	<0.050

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Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

				SAL Reference	**348078 010**	**348078 020**
				Customer Sample Reference	**BH18 ES 001 0.3**	**BH30 ES 018 7.0**
				Top Depth	**0.3**	**7.0**
				Date Sampled	**27-AUG-2013**	**27-AUG-2013**
				Type	**Sandy Soil**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	**0.6**	<0.1
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1
4-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	**1.7**	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	**0.3**	<0.1
Anthracene	T207	M105	0.1	mg/kg	**5.1**	<0.1
Azobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**10**	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**8.4**	<0.1
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	**17**	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**3.9**	<0.1
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1
Carbazole	T207	M105	0.1	mg/kg	**2.1**	<0.1
Chrysene	T207	M105	0.1	mg/kg	**8.2**	<0.1
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	**1.4**	<0.1
Dibenzofuran	T207	M105	0.1	mg/kg	**1.5**	<0.1
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**14**	<0.1
Fluorene	T207	M105	0.1	mg/kg	**1.4**	<0.1
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**4.1**	<0.1
Isophorone	T207	M105	0.1	mg/kg	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	**1.2**	<0.1
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**14**	<0.1

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Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

					SAL Reference	348078 010	348078 020
					Customer Sample Reference	BH18 ES 001 0.3	BH30 ES 018 7.0
					Top Depth	0.3	7.0
					Date Sampled	27-AUG-2013	27-AUG-2013
					Type	Sandy Soil	Clay
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Phenol	T207	M105	0.1	mg/kg		<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg		**11**	<0.1

Index to symbols used in 348078-1

Value	Description
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
AR	As Received
N.D.	Not Detected
9	LOD raised due to dilution of sample
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T7	Probe
T1	GC/MS (HR)
T162	Grav (1 Dec) (105 C)
T206	GC/FID (MCERTS)
T546	Colorimetry (CF)
T8	GC/FID
T85	Calc
T207	GC/MS(MCERTS)
T6	ICP/OES
T209	GC/MS(Head Space)(MCERTS)
T27	PLM
T277	Grav (1 Dec) (40 C)
T286	Calc TOC/100
T149	GC/MS (SIR)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture @ 105 C	T162	AR	0.1	%	N	001,005,008,010,012-013,020
Moisture	T277	AR	0.1	%	N	001,005,008,010,012-013,020
Asbestos ID	T27	AR			SU	001,010,012-013
pH	T7	AR			M	001,005,008,010,012-013,020
Mass Fraction of organic carbon	T286	M40			N	008,020
Arsenic	T6	M40	2	mg/kg	M	001,005,008,010,012-013,020
Boron (water-soluble)	T6	AR	1	mg/kg	N	001,005,008,010,012-013,020
Cadmium	T6	M40	1	mg/kg	M	001,005,008,010,012-013,020
Chromium	T6	M40	1	mg/kg	M	001,005,008,010,012-013,020
Chromium (trivalent)	T85	AR	2	mg/kg	N	001,005,008,010,012-013,020
Chromium VI	T6	AR	1	mg/kg	N	001,005,008,010,012-013,020
Copper	T6	M40	1	mg/kg	M	001,005,008,010,012-013,020
Lead	T6	M40	1	mg/kg	M	001,005,008,010,012-013,020
Mercury	T6	M40	1	mg/kg	M	001,005,008,010,012-013,020

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Nickel	T6	M40	1	mg/kg	M	001,005,008,010,012-013,020
Selenium	T6	M40	3	mg/kg	M	001,005,008,010,012-013,020
Zinc	T6	M40	1	mg/kg	M	001,005,008,010,012-013,020
Cyanide(Total)	T546	AR	1	mg/kg	M	001,005,008,010,012-013,020
Cyanide(free)	T546	AR	1	mg/kg	M	001,005,008,010,012-013,020
SO4(Total)	T6	M40	0.01	%	N	001,005,008,010,012-013,020
Total Phenols	T149	AR	0.01	mg/kg	U	001,005,008,010,012-013,020
Acenaphthene	T207	M105	0.1	mg/kg	M	001,005,008,010,012-013,020
Acenaphthylene	T207	M105	0.1	mg/kg	U	001,005,008,010,012-013,020
Anthracene	T207	M105	0.1	mg/kg	U	001,005,008,010,012-013,020
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	001,005,008,010,012-013,020
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	001,005,008,010,012-013,020
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	001,005,008,010,012-013,020
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	001,005,008,010,012-013,020
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	001,005,008,010,012-013,020
Chrysene	T207	M105	0.1	mg/kg	M	001,005,008,010,012-013,020
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	001,005,008,010,012-013,020
Fluoranthene	T207	M105	0.1	mg/kg	M	001,005,008,010,012-013,020
Fluorene	T207	M105	0.1	mg/kg	M	001,005,008,010,012-013,020
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	001,005,008,010,012-013,020
Naphthalene	T207	M105	0.1	mg/kg	M	001,005,008,010,012-013,020
Phenanthrene	T207	M105	0.1	mg/kg	M	001,005,008,010,012-013,020
Pyrene	T207	M105	0.1	mg/kg	M	001,005,008,010,012-013,020
PAH(total)	T207	M105	0.1	mg/kg	U	001,005,008,010,012-013,020
TPH (C8-C10)	T8	AR	1	mg/kg	N	001,005,008,012-013
TPH (C10-C12)	T206	AR	1	mg/kg	M	001,005,008,012-013
TPH (C12-C16)	T206	AR	1	mg/kg	M	001,005,008,012-013
TPH (C16-C21)	T206	AR	1	mg/kg	M	001,005,008,012-013
TPH (C21-C35)	T206	AR	1	mg/kg	M	001,005,008,012-013
TPH (C35-C40)	T8	AR	1	mg/kg	N	001,005,008,012-013
TPH (C8 - C40)	T85	AR	1	mg/kg	N	001,005,008,012-013
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	N	010,020
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	N	010,020
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	N	010,020
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	M	010,020
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	M	010,020
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	M	010,020
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	M	010,020
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	N	010,020
TPH (Aliphatic) total	T85	M105		mg/kg	N	010,020
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	N	010,020
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	N	010,020
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	N	010,020
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	M	010,020
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	M	010,020
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	M	010,020
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	M	010,020
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	N	010,020
TPH (Aromatic) total	T85	M105		mg/kg	N	010,020
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N	010,020
EthylBenzene	T209	M105	0.010	mg/kg	M	010,020
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	M	010,020
O Xylene	T209	M105	0.010	mg/kg	M	010,020
M/P Xylene	T209	M105	0.010	mg/kg	M	010,020
PCB BZ#101	T1	M105	0.00005	mg/kg	M	010
PCB BZ#118	T1	M105	0.00005	mg/kg	M	010
PCB BZ#138	T1	M105	0.00005	mg/kg	M	010
PCB BZ#153	T1	M105	0.00005	mg/kg	M	010
PCB BZ#180	T1	M105	0.00005	mg/kg	M	010
PCB BZ#28	T1	M105	0.00005	mg/kg	M	010
PCB BZ#52	T1	M105	0.00005	mg/kg	M	010
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	010,020
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	010,020
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	010,020
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	010,020
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	010,020
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	010,020
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	010,020
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	010,020
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	U	010,020

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	010,020
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	010,020
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	010,020
2-Chlorophenol	T207	M105	0.1	mg/kg	M	010,020
2-methyl phenol	T207	M105	0.1	mg/kg	M	010,020
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	010,020
2-Nitroaniline	T207	M105	0.1	mg/kg	M	010,020
2-Nitrophenol	T207	M105	0.1	mg/kg	U	010,020
3-Nitroaniline	T207	M105	0.1	mg/kg	U	010,020
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	010,020
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	010,020
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	010,020
4-Chloroaniline	T207	M105	0.1	mg/kg	U	010,020
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	010,020
4-Nitroaniline	T207	M105	0.1	mg/kg	U	010,020
4-Nitrophenol	T207	M105	0.1	mg/kg	U	010,020
Azobenzene	T207	M105	0.1	mg/kg	M	010,020
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	010,020
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	010,020
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	010,020
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	010,020
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	010,020
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	010,020
Carbazole	T207	M105	0.1	mg/kg	U	010,020
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	010,020
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	010,020
Dibenzofuran	T207	M105	0.1	mg/kg	M	010,020
Diethyl phthalate	T207	M105	0.1	mg/kg	U	010,020
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	010,020
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	010,020
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	010,020
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	010,020
Hexachloroethane	T207	M105	0.1	mg/kg	U	010,020
Isophorone	T207	M105	0.1	mg/kg	U	010,020
Nitrobenzene	T207	M105	0.1	mg/kg	M	010,020
Pentachlorophenol	T207	M105	0.1	mg/kg	U	010,020
Phenol	T207	M105	0.1	mg/kg	M	010,020
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	M	010,020
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	M	010,020
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	U	010,020
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	M	010,020
1,1-Dichloroethane	T209	M105	0.050	mg/kg	M	010,020
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	M	010,020
1,1-Dichloropropene	T209	M105	0.050	mg/kg	M	010,020
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	U	010,020
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	M	010,020
1,2-dibromoethane	T209	M105	0.050	mg/kg	M	010,020
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	M	010,020
1,2-Dichloroethane	T209	M105	0.050	mg/kg	M	010,020
1,2-Dichloropropane	T209	M105	0.050	mg/kg	M	010,020
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	M	010,020
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	M	010,020
1,3-Dichloropropane	T209	M105	0.050	mg/kg	M	010,020
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	M	010,020
2,2-Dichloropropane	T209	M105	0.050	mg/kg	U	010,020
2-Chlorotoluene	T209	M105	0.050	mg/kg	U	010,020
4-Chlorotoluene	T209	M105	0.050	mg/kg	U	010,020
Benzene	T209	M105	0.010	mg/kg	M	010,020
Bromobenzene	T209	M105	0.050	mg/kg	M	010,020
Bromochloromethane	T209	M105	0.050	mg/kg	M	010,020
Bromodichloromethane	T209	M105	0.050	mg/kg	M	010,020
Bromoform	T209	M105	0.050	mg/kg	M	010,020
Bromomethane	T209	M105	0.050	mg/kg	U	010,020
Carbon tetrachloride	T209	M105	0.050	mg/kg	M	010,020
Chlorobenzene	T209	M105	0.050	mg/kg	M	010,020
Chlorodibromomethane	T209	M105	0.050	mg/kg	M	010,020
Chloroethane	T209	M105	0.050	mg/kg	M	010,020
Chloroform	T209	M105	0.050	mg/kg	M	010,020
Chloromethane	T209	M105	0.050	mg/kg	U	010,020
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	M	010,020

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	010,020
Dibromomethane	T209	M105	0.050	mg/kg	M	010,020
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	M	010,020
Dichloromethane	T209	M105	0.050	mg/kg	U	010,020
Isopropyl benzene	T209	M105	0.050	mg/kg	M	010,020
n-Propylbenzene	T209	M105	0.050	mg/kg	M	010,020
p-Isopropyltoluene	T209	M105	0.050	mg/kg	M	010,020
S-Butylbenzene	T209	M105	0.050	mg/kg	M	010,020
Styrene	T209	M105	0.050	mg/kg	U	010,020
T-Butylbenzene	T209	M105	0.050	mg/kg	M	010,020
Tetrachloroethene	T209	M105	0.050	mg/kg	M	010,020
Toluene	T209	M105	0.010	mg/kg	M	010,020
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	M	010,020
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	010,020
Trichloroethene	T209	M105	0.050	mg/kg	M	010,020
Trichlorofluoromethane	T209	M105	0.050	mg/kg	M	010,020
Vinyl chloride	T209	M105	0.050	mg/kg	M	010,020

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 348302-1

Date of Report: 16-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 40, 41, 42
Date Job Received at SAL: 02-Sep-2013
Date Analysis Started: 06-Sep-2013
Date Analysis Completed: 16-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked and authorised by :
Mr Ross Walker
Customer Services Manager (Land)

Issued by :
Mr Ross Walker
Customer Services Manager (Land)

SAL Reference: 348302
Project Site: A63 Castle St - 40, 41, 42
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**348302 004**	**348302 006**	**348302 007**	**348302 009**	**348302 011**	**348302 012**	**348302 014**	**348302 015**	**348302 016**
				Customer Sample Reference	**WS12A ES 007 4.5-5.0**	**SCPT28 ES 001 0.5**	**SCPT22 ES 001 0.3**	**TP05A ES 002 1.3-1.9**	**TP05 ES 002 0.5-0.6**	**TP04 ES 002 0.5-0.7**	**TP04 ES 003 0.9-1.0**	**TP04 ES 004 1.1-1.5**	**WS09 ES 001 0.5-0.9**
				Depth	**5.0**	**0.5**	**0.3**	**1.9**	**0.6**	**0.7**	**1.0**	**1.5**	**0.9**
				Top Depth	**4.5**			**1.3**	**0.5**	**0.5**	**0.9**	**1.1**	**0.5**
				Date Sampled	**28-AUG-2013**	**28-AUG-2013**	**28-AUG-2013**	**28-AUG-2013**	**28-AUG-2013**	**28-AUG-2013**	**28-AUG-2013**	**28-AUG-2013**	**28-AUG-2013**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
Moisture @ 105 C	T162	AR	0.1	%	**31**	**8.3**	**6.2**	**19**	**17**	**5.8**	**12**	**16**	**23**
Moisture	T277	AR	0.1	%	**28**	**7.5**	**12**	**17**	**14**	**6.8**	**13**	**15**	**13**
Asbestos ID	T27	AR			-	Chrysotile Detected -	N.D.	N.D.	N.D.	N.D.	-	N.D.	N.D.
pH	T7	AR			**8.4**	**8.0**	**8.3**	**7.4**	**7.9**	**8.2**	-	**8.0**	**8.2**
Mass Fraction of organic carbon	T286	M40			**0.0085**	-	-	-	-	-	-	-	**0.024**
Arsenic	T6	M40	2	mg/kg	**16**	**9**	**29**	**15**	**14**	**24**	**27**	**13**	**67**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**30**	**27**	**23**	**30**	**38**	**33**	**29**	**31**	**16**
Chromium (trivalent)	T85	AR	2	mg/kg	**30**	**27**	**23**	**30**	**38**	**33**	**29**	**31**	**16**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**21**	**37**	**52**	**27**	**43**	**140**	**84**	**24**	**1500**
Lead	T6	M40	1	mg/kg	**42**	**96**	**220**	**56**	**55**	**410**	**350**	**47**	**1400**
Mercury	T6	M40	1	mg/kg	<1	<1	**1**	<1	<1	<1	<1	<1	**1**
Nickel	T6	M40	1	mg/kg	**26**	**21**	**24**	**25**	**32**	**47**	**29**	**29**	**21**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**69**	**210**	**98**	**110**	**100**	**330**	**180**	**110**	**370**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	-	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	-	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.77**	**0.10**	**0.14**	**0.55**	**0.10**	**0.16**	-	**0.08**	**0.30**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	**0.11**	-	<0.01	<0.01
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**0.2**	-	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.1**	<0.1	<0.1	**0.7**	-	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.1**	**0.3**	<0.1	<0.1	**1.5**	-	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.2**	<0.1	<0.1	**1.1**	-	<0.1	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.2**	<0.1	<0.1	**1.0**	-	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.1**	<0.1	<0.1	**0.6**	-	<0.1	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.2**	<0.1	<0.1	**0.9**	-	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	<0.1	**0.2**	**0.4**	<0.1	<0.1	**1.5**	-	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.3**	**0.8**	<0.1	**0.2**	**3.5**	-	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**0.2**	-	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**0.5**	-	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**0.4**	-	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.2**	**0.6**	<0.1	<0.1	**2.3**	-	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.3**	**0.7**	<0.1	**0.1**	**3.0**	-	<0.1	<0.1
PAH(total)	T207	M105	0.1	mg/kg	<0.1	**1.1**	**3.6**	<0.1	**0.3**	**20**	-	<0.1	<0.1
TPH (C8-C10)	T8	M105	1	mg/kg	<1	<1	<1	<1	-	-	-	<1	<1
TPH (C10-C12)	T206	M105	1	mg/kg	<1	<1	<1	<1	-	-	-	<1	<1
TPH (C12-C16)	T206	M105	1	mg/kg	<1	<1	**1**	<1	-	-	-	<1	<1
TPH (C16-C21)	T206	M105	1	mg/kg	<1	**1**	**1**	<1	-	-	-	<1	**1**
TPH (C21-C35)	T206	M105	1	mg/kg	**1**	**5**	**2**	**3**	-	-	-	**1**	**11**
TPH (C35-C40)	T8	M105	1	mg/kg	<1	<1	<1	<1	-	-	-	<1	**2**
TPH (C8 - C40)	T85	M105	1	mg/kg	<1	**6**	**4**	**3**	-	-	-	<1	**14**
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	-	-	-	-	<0.100	(110) <0.300	-	-	-
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	-	-	-	-	<0.10	(110) <0.30	-	-	-
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	-	-	-	-	<0.10	(110) <0.30	-	-	-
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	-	-	-	-	<1	**1**	-	-	-
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	-	-	-	-	<2	**4**	-	-	-
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	-	-	-	-	**3**	**5**	-	-	-

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				SAL Reference	**348302 004**	**348302 006**	**348302 007**	**348302 009**	**348302 011**	**348302 012**	**348302 014**	**348302 015**	**348302 016**
				Customer Sample Reference	**WS12A ES 007 4.5-5.0**	**SCPT28 ES 001 0.5**	**SCPT22 ES 001 0.3**	**TP05A ES 002 1.3-1.9**	**TP05 ES 002 0.5-0.6**	**TP04 ES 002 0.5-0.7**	**TP04 ES 003 0.9-1.0**	**TP04 ES 004 1.1-1.5**	**WS09 ES 001 0.5-0.9**
				Depth	**5.0**	**0.5**	**0.3**	**1.9**	**0.6**	**0.7**	**1.0**	**1.5**	**0.9**
				Top Depth	**4.5**			**1.3**	**0.5**	**0.5**	**0.9**	**1.1**	**0.5**
				Date Sampled	**28-AUG-2013**	**28-AUG-2013**	**28-AUG-2013**	**28-AUG-2013**	**28-AUG-2013**	**28-AUG-2013**	**28-AUG-2013**	**28-AUG-2013**	**28-AUG-2013**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	-	-	-	-	**5**	**15**	-	-	-
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	-	-	-	-	<1	<1	-	-	-
TPH (Aliphatic) total	T85	M105		mg/kg	-	-	-	-	**8.0**	**25**	-	-	-
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	-	-	-	-	<0.10	(110) <0.30	-	-	-
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	-	-	-	-	<0.10	(110) <0.30	-	-	-
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	-	-	-	-	<0.10	(110) <0.30	-	-	-
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	-	-	-	-	<1	**5**	-	-	-
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	-	-	-	-	<1	**13**	-	-	-
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	-	-	-	-	**1**	**51**	-	-	-
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	-	-	-	-	**2**	**97**	-	-	-
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	-	-	-	-	<1	**12**	-	-	-
TPH (Aromatic) total	T85	M105		mg/kg	-	-	-	-	**3.0**	**180**	-	-	-
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	-	-	-	-	**11**	**210**	-	-	-
Benzene	T209	M105	0.010	mg/kg	-	-	-	-	<0.010	(110) <0.030	-	-	-
Toluene	T209	M105	0.010	mg/kg	-	-	-	-	<0.010	(110) <0.030	-	-	-
EthylBenzene	T209	M105	0.010	mg/kg	-	-	-	-	<0.010	(110) <0.030	-	-	-
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	-	-	-	-	<0.010	(110) <0.030	-	-	-
O Xylene	T209	M105	0.010	mg/kg	-	-	-	-	<0.010	(110) <0.030	-	-	-
M/P Xylene	T209	M105	0.010	mg/kg	-	-	-	-	**0.013**	**0.031**	-	-	-
PCB BZ#101	T1	M105	0.00005	mg/kg	-	-	-	-	<0.00005	**0.0014**	-	-	-
PCB BZ#118	T1	M105	0.00005	mg/kg	-	-	-	-	<0.00005	**0.00096**	-	-	-
PCB BZ#138	T1	M105	0.00005	mg/kg	-	-	-	-	<0.00005	**0.0019**	-	-	-
PCB BZ#153	T1	M105	0.00005	mg/kg	-	-	-	-	<0.00005	**0.0017**	-	-	-
PCB BZ#180	T1	M105	0.00005	mg/kg	-	-	-	-	<0.00005	**0.00093**	-	-	-
PCB BZ#28	T1	M105	0.00005	mg/kg	-	-	-	-	<0.00005	**0.00007**	-	-	-
PCB BZ#52	T1	M105	0.00005	mg/kg	-	-	-	-	<0.00005	**0.00067**	-	-	-

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				SAL Reference	**348302 019**	**348302 020**	**348302 022**	**348302 024**	**348302 025**	**348302 027**	**348302 030**	**348302 034**	**348302 035**
				Customer Sample Reference	**WS18 ES 004 2.1-2.9**	**WS19 ES 003 1.2-1.8**	**WS19 ES 005 3.6-5.0**	**WS01 ES 001 0.2-0.4**	**WS01 ES 002 1.0-1.2**	**WS01 ES 004 2.5-3.0**	**WS02 ES 001 0.5-1.0**	**WS02 ES 005 4.5-5.0**	**SCPT14 TRENCH ES 001 0.4**
				Depth	**2.9**	**1.8**	**5.0**	**0.4**	**1.2**	**3.0**	**1.0**	**5.0**	**0.4**
				Top Depth	**2.1**	**1.2**	**3.6**	**0.2**	**1.0**	**2.5**	**0.5**	**4.5**	
				Date Sampled	**28-AUG-2013**	**28-AUG-2013**	**28-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Sandy Soil**	**Clay**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
Moisture @ 105 C	T162	AR	0.1	%	**16**	**15**	**21**	**10**	**7.6**	**26**	**5.4**	**29**	**6.1**
Moisture	T277	AR	0.1	%	**16**	**15**	**26**	**9.7**	**6.7**	**24**	**6.7**	**28**	**4.3**
Asbestos ID	T27	AR			N.D.	N.D.	N.D.	N.D.	Chrysotile Detected -	-	N.D.	-	Chrysotile Detected -
pH	T7	AR			**8.5**	**8.2**	**8.1**	**8.3**	**8.4**	**7.7**	**8.1**	**8.5**	**8.2**
Mass Fraction of organic carbon	T286	M40			-	-	**0.034**	-	-	**0.0070**	-	-	-
Arsenic	T6	M40	2	mg/kg	**16**	**12**	**26**	**17**	**25**	**13**	**15**	**12**	**9**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	**1**	<1	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**22**	**18**	**44**	**26**	**24**	**25**	**91**	**27**	**68**
Chromium (trivalent)	T85	AR	2	mg/kg	**22**	**18**	**44**	**26**	**24**	**25**	**91**	**27**	**68**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**73**	**19**	**57**	**74**	**130**	**15**	**41**	**15**	**29**
Lead	T6	M40	1	mg/kg	**370**	**28**	**320**	**410**	**1100**	**19**	**310**	**17**	**180**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	**1**	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**21**	**20**	**33**	**23**	**20**	**23**	**22**	**27**	**15**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**100**	**59**	**250**	**200**	**400**	**66**	**150**	**69**	**240**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.31**	**0.12**	**0.76**	**0.20**	**0.25**	**0.14**	**0.36**	**0.53**	**1.2**
Total Phenols	T149	AR	0.01	mg/kg	**0.09**	<0.01	**0.05**	**0.03**	**0.06**	<0.01	<0.01	**0.21**	**0.16**
Acenaphthene	T207	M105	0.1	mg/kg	**3.7**	<0.1	**1.9**	**0.1**	**0.3**	<0.1	<0.1	<0.1	**0.6**
Acenaphthylene	T207	M105	0.1	mg/kg	**0.3**	<0.1	<0.1	<0.1	**0.2**	<0.1	<0.1	<0.1	**0.2**
Anthracene	T207	M105	0.1	mg/kg	**11**	**0.3**	**2.4**	**0.4**	**1.1**	<0.1	<0.1	<0.1	**3.2**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**14**	**0.9**	**2.4**	**1.3**	**2.7**	<0.1	**0.3**	**0.1**	**7.7**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**9.8**	**0.7**	**1.7**	**0.9**	**2.0**	<0.1	**0.3**	**0.7**	**6.8**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**9.1**	**0.7**	**1.7**	**1.0**	**2.1**	<0.1	**0.3**	**0.5**	**6.9**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**4.6**	**0.4**	**1.0**	**0.5**	**1.0**	<0.1	**0.1**	**0.2**	**4.1**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**10**	**0.8**	**1.8**	**1.2**	**2.2**	<0.1	**0.3**	**1.0**	**6.4**
Chrysene	T207	M105	0.1	mg/kg	**15**	**0.9**	**2.6**	**1.4**	**2.7**	<0.1	**0.3**	**0.3**	**8.1**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	**1.2**	<0.1	**0.1**	<0.1	**0.3**	<0.1	<0.1	<0.1	**1.2**
Fluoranthene	T207	M105	0.1	mg/kg	**44**	**2.4**	**9.1**	**3.2**	**5.7**	<0.1	**0.7**	**0.2**	**20**
Fluorene	T207	M105	0.1	mg/kg	**3.5**	<0.1	**1.7**	**0.1**	**0.3**	<0.1	<0.1	<0.1	**0.5**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**4.2**	**0.3**	**0.8**	**0.4**	**0.9**	<0.1	**0.1**	**0.3**	**3.4**
Naphthalene	T207	M105	0.1	mg/kg	**0.8**	<0.1	**0.6**	**0.3**	**0.4**	<0.1	<0.1	<0.1	**0.4**
Phenanthrene	T207	M105	0.1	mg/kg	**32**	**1.0**	**7.6**	**1.9**	**3.9**	<0.1	**0.2**	**0.2**	**8.3**
Pyrene	T207	M105	0.1	mg/kg	**36**	**2.2**	**7.7**	**2.9**	**5.2**	<0.1	**0.6**	**0.2**	**18**
PAH(total)	T207	M105	0.1	mg/kg	**200**	**11**	**43**	**18**	**31**	<0.1	**3.2**	**3.7**	**110**
TPH (C8-C10)	T8	M105	1	mg/kg	-	<1	-	-	<1	<1	<1	<1	-
TPH (C10-C12)	T206	M105	1	mg/kg	-	<1	-	-	<1	<1	<1	<1	-
TPH (C12-C16)	T206	M105	1	mg/kg	-	<1	-	-	**4**	<1	**5**	<1	-
TPH (C16-C21)	T206	M105	1	mg/kg	-	**8**	-	-	**20**	<1	**19**	<1	-
TPH (C21-C35)	T206	M105	1	mg/kg	-	**28**	-	-	**70**	**7**	**56**	**1**	-
TPH (C35-C40)	T8	M105	1	mg/kg	-	**20**	-	-	**11**	**3**	**8**	<1	-
TPH (C8 - C40)	T85	M105	1	mg/kg	-	**56**	-	-	**105**	**10**	**88**	<1	-
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	<0.100	-	<0.100	<0.100	-	-	-	-	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	<0.10	-	<0.10	<0.10	-	-	-	-	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	<0.10	-	<0.10	<0.10	-	-	-	-	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	(9) <10	-	(9) <10	<1	-	-	-	-	(9) <10
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	(9) <10	-	(9) <10	**2**	-	-	-	-	(9) <10
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	(9) <10	-	(9) <10	**3**	-	-	-	-	(9) <10

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					SAL Reference	**348302 019**	**348302 020**	**348302 022**	**348302 024**	**348302 025**	**348302 027**	**348302 030**	**348302 034**	**348302 035**
					Customer Sample Reference	**WS18 ES 004 2.1-2.9**	**WS19 ES 003 1.2-1.8**	**WS19 ES 005 3.6-5.0**	**WS01 ES 001 0.2-0.4**	**WS01 ES 002 1.0-1.2**	**WS01 ES 004 2.5-3.0**	**WS02 ES 001 0.5-1.0**	**WS02 ES 005 4.5-5.0**	**SCPT14 TRENCH ES 001 0.4**
					Depth	**2.9**	**1.8**	**5.0**	**0.4**	**1.2**	**3.0**	**1.0**	**5.0**	**0.4**
					Top Depth	**2.1**	**1.2**	**3.6**	**0.2**	**1.0**	**2.5**	**0.5**	**4.5**	
					Date Sampled	**28-AUG-2013**	**28-AUG-2013**	**28-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**
					Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Sandy Soil**	**Clay**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**										
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	(9) <10	-	**21**	**21**	-	-	-	-	**150**
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	(9) <10	-	**36**	**4**	-	-	-	-	**97**
TPH (Aliphatic) total	T85	M105		mg/kg	N.D.	-	**57**	**30**	-	-	-	-	**250**
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	<0.10	-	<0.10	<0.10	-	-	-	-	<0.10
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	<0.10	-	<0.10	<0.10	-	-	-	-	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	<0.10	-	<0.10	**0.14**	-	-	-	-	<0.10
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	(9) <10	-	(9) <10	<1	-	-	-	-	(9) <10
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	**11**	-	**16**	**3**	-	-	-	-	(9) <10
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	**90**	-	**94**	**13**	-	-	-	-	**14**
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	**190**	-	**160**	**50**	-	-	-	-	**150**
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	**40**	-	**89**	**10**	-	-	-	-	**90**
TPH (Aromatic) total	T85	M105		mg/kg	**330**	-	**360**	**76**	-	-	-	-	**250**
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	**330**	-	**420**	**110**	-	-	-	-	**500**
Benzene	T209	M105	0.010	mg/kg	<0.010	-	<0.010	<0.010	-	-	-	-	<0.010
Toluene	T209	M105	0.010	mg/kg	<0.010	-	<0.010	<0.010	-	-	-	-	<0.010
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	-	<0.010	<0.010	-	-	-	-	<0.010
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	<0.010	-	<0.010	<0.010	-	-	-	-	<0.010
O Xylene	T209	M105	0.010	mg/kg	<0.010	-	<0.010	<0.010	-	-	-	-	<0.010
M/P Xylene	T209	M105	0.010	mg/kg	<0.010	-	<0.010	<0.010	-	-	-	-	<0.010
PCB BZ#101	T1	M105	0.00005	mg/kg	-	-	-	**0.00042**	-	-	-	-	**0.0040**
PCB BZ#118	T1	M105	0.00005	mg/kg	-	-	-	**0.00025**	-	-	-	-	**0.0021**
PCB BZ#138	T1	M105	0.00005	mg/kg	-	-	-	**0.00071**	-	-	-	-	**0.0026**
PCB BZ#153	T1	M105	0.00005	mg/kg	-	-	-	**0.00082**	-	-	-	-	**0.0022**
PCB BZ#180	T1	M105	0.00005	mg/kg	-	-	-	**0.00070**	-	-	-	-	**0.0010**
PCB BZ#28	T1	M105	0.00005	mg/kg	-	-	-	<0.00005	-	-	-	-	(9) <0.00050
PCB BZ#52	T1	M105	0.00005	mg/kg	-	-	-	**0.00012**	-	-	-	-	**0.0032**

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				SAL Reference	**348302 036**	**348302 037**	**348302 038**	**348302 039**	**348302 044**	**348302 045**	**348302 046**	**348302 048**	**348302 049**
				Customer Sample Reference	**SCPT18 ES 001 0.6-1.0**	**BH30A ES 001 10.0**	**BH30A ES 002 10.7**	**BH27 ES 003 1.5**	**BH27 ES 019 5.5**	**BH44 ES 002 0.8-1.2**	**BH44 ES 001 0.1-0.6**	**SCPT26 ES 002 0.7-1.2**	**SCPT26 ES 001 0.2-0.5**
				Depth	**1.0**	**10.0**	**10.7**	**1.5**	**5.5**	**1.2**	**0.6**	**1.2**	**0.5**
				Top Depth	**0.6**					**0.8**	**0.1**	**0.7**	**0.2**
				Date Sampled	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**
				Type	**Sandy Soil**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
Moisture @ 105 C	T162	AR	0.1	%	**13**	**24**	**25**	**23**	**26**	**15**	**6.4**	**8.6**	**12**
Moisture	T277	AR	0.1	%	**9.5**	**23**	**26**	**20**	**26**	**11**	**5.1**	**8.1**	**13**
Asbestos ID	T27	AR			N.D.	-	-	N.D.	-	N.D.	N.D.	N.D.	N.D.
pH	T7	AR			**8.1**	**8.3**	**8.4**	**8.2**	**7.9**	**8.5**	**8.1**	**8.9**	**8.2**
Mass Fraction of organic carbon	T286	M40			-	**0.0091**	**0.010**	**0.017**	**0.012**	-	-	-	-
Arsenic	T6	M40	2	mg/kg	**28**	**9**	**9**	**10**	**10**	**17**	**9**	**4**	**17**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**29**	**17**	**17**	**16**	**22**	**13**	**23**	**8**	**47**
Chromium (trivalent)	T85	AR	2	mg/kg	**29**	**17**	**17**	**16**	**22**	**13**	**23**	**8**	**47**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**120**	**10**	**10**	**22**	**13**	**77**	**32**	**11**	**39**
Lead	T6	M40	1	mg/kg	**750**	**12**	**11**	**67**	**14**	**270**	**78**	**23**	**75**
Mercury	T6	M40	1	mg/kg	**1**	<1	<1	<1	<1	**1**	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**26**	**17**	**17**	**16**	**22**	**13**	**18**	**13**	**34**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**250**	**47**	**49**	**59**	**57**	**89**	**110**	**47**	**140**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.25**	**0.65**	**1.1**	**0.13**	**0.66**	**0.18**	**0.13**	**0.07**	**0.17**
Total Phenols	T149	AR	0.01	mg/kg	**0.06**	<0.01	<0.01	<0.01	<0.01	**0.12**	**0.11**	**0.04**	**0.02**
Acenaphthene	T207	M105	0.1	mg/kg	**1.2**	<0.1	<0.1	<0.1	<0.1	**0.7**	<0.1	**0.2**	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	**0.1**	<0.1	<0.1	<0.1	<0.1	**0.2**	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	**2.4**	<0.1	<0.1	<0.1	<0.1	**3.9**	**0.2**	**0.5**	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**5.7**	<0.1	<0.1	<0.1	<0.1	**7.1**	**0.6**	**1.0**	**0.4**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**4.3**	<0.1	<0.1	<0.1	<0.1	**5.2**	**0.8**	**0.7**	**0.3**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**4.6**	<0.1	<0.1	<0.1	<0.1	**5.7**	**0.8**	**0.8**	**0.3**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**2.2**	<0.1	<0.1	<0.1	<0.1	**2.8**	**0.8**	**0.4**	**0.2**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**4.1**	<0.1	<0.1	<0.1	<0.1	**6.0**	**0.8**	**0.7**	**0.3**
Chrysene	T207	M105	0.1	mg/kg	**6.3**	<0.1	<0.1	<0.1	<0.1	**7.6**	**0.8**	**1.0**	**0.4**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	**0.6**	<0.1	<0.1	<0.1	<0.1	**0.4**	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**13**	<0.1	<0.1	<0.1	<0.1	**19**	**1.7**	**2.7**	**0.8**
Fluorene	T207	M105	0.1	mg/kg	**1.0**	<0.1	<0.1	<0.1	<0.1	**0.7**	<0.1	**0.2**	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**1.8**	<0.1	<0.1	<0.1	<0.1	**2.1**	**0.4**	**0.3**	<0.1
Naphthalene	T207	M105	0.1	mg/kg	**0.9**	<0.1	<0.1	<0.1	<0.1	**0.4**	<0.1	**0.2**	**0.1**
Phenanthrene	T207	M105	0.1	mg/kg	**10**	<0.1	<0.1	<0.1	<0.1	**11**	**0.6**	**2.1**	**0.4**
Pyrene	T207	M105	0.1	mg/kg	**12**	<0.1	<0.1	<0.1	<0.1	**16**	**1.9**	**2.4**	**0.8**
PAH(total)	T207	M105	0.1	mg/kg	**79**	<0.1	<0.1	<0.1	<0.1	**100**	**9.4**	**13**	**4.0**
TPH (C8-C10)	T8	M105	1	mg/kg	-	-	-	<1	<1	-	<1	<1	<1
TPH (C10-C12)	T206	M105	1	mg/kg	-	-	-	<1	<1	-	<1	<1	<1
TPH (C12-C16)	T206	M105	1	mg/kg	-	-	-	<1	<1	-	<1	<1	<1
TPH (C16-C21)	T206	M105	1	mg/kg	-	-	-	**1**	<1	-	**1**	**3**	**2**
TPH (C21-C35)	T206	M105	1	mg/kg	-	-	-	**2**	<1	-	**9**	**67**	**8**
TPH (C35-C40)	T8	M105	1	mg/kg	-	-	-	<1	<1	-	**2**	**4**	**1**
TPH (C8 - C40)	T85	M105	1	mg/kg	-	-	-	**3**	<1	-	**12**	**74**	**11**
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	<0.100	<0.100	<0.100	-	-	<0.100	-	-	-
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	-	-	<0.10	-	-	-
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	-	-	<0.10	-	-	-
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	<1	<1	<1	-	-	(9) <10	-	-	-
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	<2	<2	<2	-	-	(9) <10	-	-	-
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	**1**	**2**	**2**	-	-	**15**	-	-	-
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	**6**	<4	<4	-	-	**63**	-	-	-
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	**3**	**2**	**1**	-	-	**17**	-	-	-

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				SAL Reference	**348302 036**	**348302 037**	**348302 038**	**348302 039**	**348302 044**	**348302 045**	**348302 046**	**348302 048**	**348302 049**
				Customer Sample Reference	**SCPT18 ES 001 0.6-1.0**	**BH30A ES 001 10.0**	**BH30A ES 002 10.7**	**BH27 ES 003 1.5**	**BH27 ES 019 5.5**	**BH44 ES 002 0.8-1.2**	**BH44 ES 001 0.1-0.6**	**SCPT26 ES 002 0.7-1.2**	**SCPT26 ES 001 0.2-0.5**
				Depth	**1.0**	**10.0**	**10.7**	**1.5**	**5.5**	**1.2**	**0.6**	**1.2**	**0.5**
				Top Depth	**0.6**					**0.8**	**0.1**	**0.7**	**0.2**
				Date Sampled	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**
				Type	**Sandy Soil**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
TPH (Aliphatic) total	T85	M105		mg/kg	**10**	**4.0**	**3.0**	-	-	**95**	-	-	-
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	-	-	<0.10	-	-	-
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	-	-	<0.10	-	-	-
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	-	-	<0.10	-	-	-
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	<1	<1	<1	-	-	(9) <10	-	-	-
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	<1	<1	<1	-	-	(9) <10	-	-	-
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	**4**	**1**	<1	-	-	**52**	-	-	-
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	**12**	**4**	<1	-	-	**220**	-	-	-
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	**4**	<1	<1	-	-	**68**	-	-	-
TPH (Aromatic) total	T85	M105		mg/kg	**20**	**5.0**	N.D.	-	-	**340**	-	-	-
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	**30**	**9.0**	**3.0**	-	-	**440**	-	-	-
Benzene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010	-	-	<0.010	-	-	-
Toluene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010	-	-	<0.010	-	-	-
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010	-	-	<0.010	-	-	-
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010	-	-	<0.010	-	-	-
O Xylene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010	-	-	<0.010	-	-	-
M/P Xylene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010	-	-	<0.010	-	-	-
PCB BZ#101	T1	M105	0.00005	mg/kg	(9) <0.00050	-	-	-	-	(9) <0.00050	-	-	-
PCB BZ#118	T1	M105	0.00005	mg/kg	(9) <0.00050	-	-	-	-	(9) <0.00050	-	-	-
PCB BZ#138	T1	M105	0.00005	mg/kg	(9) <0.00050	-	-	-	-	(9) <0.00050	-	-	-
PCB BZ#153	T1	M105	0.00005	mg/kg	(9) <0.00050	-	-	-	-	(9) <0.00050	-	-	-
PCB BZ#180	T1	M105	0.00005	mg/kg	(9) <0.00050	-	-	-	-	(9) <0.00050	-	-	-
PCB BZ#28	T1	M105	0.00005	mg/kg	(9) <0.00050	-	-	-	-	(9) <0.00050	-	-	-
PCB BZ#52	T1	M105	0.00005	mg/kg	(9) <0.00050	-	-	-	-	(9) <0.00050	-	-	-

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				SAL Reference	**348302 050**	**348302 054**	**348302 058**	**348302 060**	**348302 061**
				Customer Sample Reference	**SCPT34 ES 001 0.5-0.7**	**WS03 ES 001 1.8-2.0**	**WS03 ES 005 4.8-5.0**	**WS26 ES 002 0.8**	**WS10A ES 001 0.5**
				Depth	**0.7**	**2.0**	**5.0**	**0.8**	**0.5**
				Top Depth	**0.5**	**1.8**	**4.8**		
				Date Sampled	**29-AUG-2013**	**30-AUG-2013**	**30-AUG-2013**	**30-AUG-2013**	**30-AUG-2013**
				Type	**Sandy Soil**	**Sandy Soil**	**Clay**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @ 105 C	T162	AR	0.1	%	**9.1**	**16**	**27**	**24**	**13**
Moisture	T277	AR	0.1	%	**6.6**	**16**	**25**	**22**	**11**
Asbestos ID	T27	AR			N.D.	N.D.	-	N.D.	N.D.
pH	T7	AR			**8.2**	**7.7**	**8.1**	**7.7**	**8.1**
Mass Fraction of organic carbon	T286	M40			-	-	**0.0084**	-	-
Arsenic	T6	M40	2	mg/kg	**4**	**11**	**10**	**13**	**15**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**14**	**25**	**18**	**28**	**29**
Chromium (trivalent)	T85	AR	2	mg/kg	**14**	**25**	**18**	**28**	**29**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**13**	**15**	**11**	**20**	**50**
Lead	T6	M40	1	mg/kg	**25**	**17**	**11**	**39**	**160**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**12**	**24**	**18**	**26**	**22**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**61**	**66**	**47**	**76**	**240**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.16**	**0.11**	**0.90**	**0.21**	**0.22**
Total Phenols	T149	AR	0.01	mg/kg	**0.04**	<0.01	<0.01	<0.01	**0.02**
Acenaphthene	T207	M105	0.1	mg/kg	**0.6**	<0.1	<0.1	<0.1	**0.7**
Acenaphthylene	T207	M105	0.1	mg/kg	**0.5**	<0.1	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	**2.2**	<0.1	<0.1	<0.1	**3.6**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**3.3**	<0.1	<0.1	<0.1	**7.3**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**3.8**	<0.1	<0.1	<0.1	**5.5**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**3.3**	<0.1	<0.1	<0.1	**5.1**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**2.1**	<0.1	<0.1	<0.1	**2.8**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**3.5**	<0.1	<0.1	<0.1	**5.6**
Chrysene	T207	M105	0.1	mg/kg	**3.3**	<0.1	<0.1	<0.1	**7.3**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	**0.2**	<0.1	<0.1	<0.1	**0.5**
Fluoranthene	T207	M105	0.1	mg/kg	**9.0**	<0.1	<0.1	<0.1	**19**
Fluorene	T207	M105	0.1	mg/kg	**1.1**	<0.1	<0.1	<0.1	**0.7**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**1.2**	<0.1	<0.1	<0.1	**2.4**
Naphthalene	T207	M105	0.1	mg/kg	**0.6**	<0.1	<0.1	<0.1	**0.2**
Phenanthrene	T207	M105	0.1	mg/kg	**8.8**	<0.1	<0.1	<0.1	**10**
Pyrene	T207	M105	0.1	mg/kg	**8.2**	<0.1	<0.1	<0.1	**16**
PAH(total)	T207	M105	0.1	mg/kg	**52**	<0.1	<0.1	<0.1	**98**
TPH (C8-C10)	T8	M105	1	mg/kg	-	<1	<1	-	-
TPH (C10-C12)	T206	M105	1	mg/kg	-	<1	<1	-	-
TPH (C12-C16)	T206	M105	1	mg/kg	-	**3**	<1	-	-
TPH (C16-C21)	T206	M105	1	mg/kg	-	**1**	<1	-	-
TPH (C21-C35)	T206	M105	1	mg/kg	-	**2**	<1	-	-
TPH (C35-C40)	T8	M105	1	mg/kg	-	<1	<1	-	-
TPH (C8 - C40)	T85	M105	1	mg/kg	-	**6**	<1	-	-
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	(110) <0.200	-	-	<0.100	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	(110) <0.20	-	-	<0.10	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	(110) <0.20	-	-	<0.10	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	(9) <10	-	-	<1	(9) <10
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	(9) <10	-	-	<2	**10**
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	(9) <10	-	-	<1	**14**
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	**100**	-	-	**4**	**21**
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	**57**	-	-	**2**	**11**

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				SAL Reference	**348302 050**	**348302 054**	**348302 058**	**348302 060**	**348302 061**
				Customer Sample Reference	**SCPT34 ES 001 0.5-0.7**	**WS03 ES 001 1.8-2.0**	**WS03 ES 005 4.8-5.0**	**WS26 ES 002 0.8**	**WS10A ES 001 0.5**
				Depth	**0.7**	**2.0**	**5.0**	**0.8**	**0.5**
				Top Depth	**0.5**	**1.8**	**4.8**		
				Date Sampled	**29-AUG-2013**	**30-AUG-2013**	**30-AUG-2013**	**30-AUG-2013**	**30-AUG-2013**
				Type	**Sandy Soil**	**Sandy Soil**	**Clay**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (Aliphatic) total	T85	M105		mg/kg	**160**	-	-	**6.0**	**56**
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	(110) <0.20	-	-	<0.10	<0.10
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	(110) <0.20	-	-	<0.10	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	(110) <0.20	-	-	<0.10	<0.10
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	(9) <10	-	-	<1	(9) <10
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	(9) <10	-	-	<1	(9) <10
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	**13**	-	-	<1	**31**
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	**420**	-	-	**5**	**89**
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	**113**	-	-	**4**	**22**
TPH (Aromatic) total	T85	M105		mg/kg	**550**	-	-	**9.0**	**140**
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	**710**	-	-	**15**	**200**
Benzene	T209	M105	0.010	mg/kg	(110) <0.020	-	-	<0.010	<0.010
Toluene	T209	M105	0.010	mg/kg	(110) <0.020	-	-	<0.010	<0.010
EthylBenzene	T209	M105	0.010	mg/kg	(110) <0.020	-	-	<0.010	<0.010
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	(110) <0.020	-	-	<0.010	<0.010
O Xylene	T209	M105	0.010	mg/kg	(110) <0.020	-	-	<0.010	<0.010
M/P Xylene	T209	M105	0.010	mg/kg	(110) <0.020	-	-	<0.010	<0.010
PCB BZ#101	T1	M105	0.00005	mg/kg	-	-	-	<0.00005	-
PCB BZ#118	T1	M105	0.00005	mg/kg	-	-	-	<0.00005	-
PCB BZ#138	T1	M105	0.00005	mg/kg	-	-	-	<0.00005	-
PCB BZ#153	T1	M105	0.00005	mg/kg	-	-	-	<0.00005	-
PCB BZ#180	T1	M105	0.00005	mg/kg	-	-	-	<0.00005	-
PCB BZ#28	T1	M105	0.00005	mg/kg	-	-	-	<0.00005	-
PCB BZ#52	T1	M105	0.00005	mg/kg	-	-	-	<0.00005	-

SAL Reference: 348302
Project Site: A63 Castle St - 40, 41, 42
Customer Reference: 112630

Soil Analysed as Soil

Volatile Organic Compounds (USEPA 624) (MCERTS)

SAL Reference					348302 011	348302 012	348302 024	348302 035	348302 036	348302 037	348302 038	348302 045	348302 061
Customer Sample Reference					TP05 ES 002 0.5-0.6	TP04 ES 002 0.5-0.7	WS01 ES 001 0.2-0.4	SCPT14 TRENCH ES 001 0.4	SCPT18 ES 001 0.6-1.0	BH30A ES 001 10.0	BH30A ES 002 10.7	BH44 ES 002 0.8-1.2	WS10A ES 001 0.5
Depth					0.6	0.7	0.4	0.4	1.0	10.0	10.7	1.2	0.5
Top Depth					0.5	0.5	0.2		0.6			0.8	
Date Sampled					28-AUG-2013	28-AUG-2013	29-AUG-2013	29-AUG-2013	29-AUG-2013	29-AUG-2013	29-AUG-2013	29-AUG-2013	30-AUG-2013
Type					Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Clay	Clay	Sandy Soil
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-dibromoethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
2,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
2-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
4-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzene	T209	M105	0.010	mg/kg	<0.010	(110) <0.030	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Bromobenzene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromochloromethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromodichloromethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Carbon tetrachloride	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorodibromomethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloromethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromomethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloromethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	(110) <0.030	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Isopropyl benzene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
M/P Xylene	T209	M105	0.010	mg/kg	**0.013**	**0.031**	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
n-Propylbenzene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
O Xylene	T209	M105	0.010	mg/kg	<0.010	(110) <0.030	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
p-Isopropyltoluene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
S-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Styrene	T209	M105	0.050	mg/kg	<0.15	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
T-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	T209	M105	0.010	mg/kg	<0.010	(110) <0.030	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethene	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichlorofluoromethane	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl chloride	T209	M105	0.050	mg/kg	<0.050	(110) <0.15	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

SAL Reference: 348302
Project Site: A63 Castle St - 40, 41, 42
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

SAL Reference					348302 011	348302 012	348302 024	348302 035	348302 036	348302 037	348302 038	348302 045	348302 061
Customer Sample Reference					TP05 ES 002 0.5-0.6	TP04 ES 002 0.5-0.7	WS01 ES 001 0.2-0.4	SCPT14 TRENCH ES 001 0.4	SCPT18 ES 001 0.6-1.0	BH30A ES 001 10.0	BH30A ES 002 10.7	BH44 ES 002 0.8-1.2	WS10A ES 001 0.5
Depth					0.6	0.7	0.4	0.4	1.0	10.0	10.7	1.2	0.5
Top Depth					0.5	0.5	0.2		0.6			0.8	
Date Sampled					28-AUG-2013	28-AUG-2013	29-AUG-2013	29-AUG-2013	29-AUG-2013	29-AUG-2013	29-AUG-2013	29-AUG-2013	30-AUG-2013
Type					Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Clay	Clay	Sandy Soil
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**0.3**	**0.4**	**0.9**	<0.1	<0.1	**0.2**	**0.3**
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	**0.2**	**0.8**	**0.8**	**3.2**	**2.4**	**0.3**	**0.4**	**2.1**	**1.7**
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	<0.1	**0.4**	**0.3**	**0.8**	**0.9**	<0.1	<0.1	**0.3**	**0.2**
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	**0.2**	**0.8**	**0.3**	**3.2**	**2.4**	**0.3**	**0.4**	**2.1**	**1.7**
4-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	**0.2**	**0.1**	**0.6**	**1.2**	<0.1	<0.1	**0.7**	**0.7**
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	**0.1**	<0.1	<0.1	**0.2**	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.7**	**0.4**	**3.2**	**2.4**	<0.1	<0.1	**3.9**	**3.6**
Azobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	**1.5**	**1.3**	**7.7**	**5.7**	<0.1	<0.1	**7.1**	**7.3**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**1.1**	**0.9**	**6.8**	**4.3**	<0.1	<0.1	**5.2**	**5.5**
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**2.2**	**1.9**	**13**	**8.4**	<0.1	<0.1	**11**	**11**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.6**	**0.5**	**4.1**	**2.2**	<0.1	<0.1	**2.8**	**2.8**
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	**0.2**	<0.1	**0.3**	**0.4**	**0.2**	**0.2**	**0.5**	**0.6**	**0.4**
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbazole	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.2**	**1.7**	<0.1	<0.1	<0.1	<0.1	**2.5**
Chrysene	T207	M105	0.1	mg/kg	<0.1	**1.5**	**1.4**	**8.1**	**6.3**	<0.1	<0.1	**7.6**	**7.3**
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.1**	**0.2**	<0.1	<0.1	**0.2**	**2.0**
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**1.2**	**0.6**	<0.1	<0.1	**0.4**	**0.5**
Dibenzofuran	T207	M105	0.1	mg/kg	<0.1	**0.2**	**0.2**	**0.6**	**1.2**	<0.1	<0.1	**0.7**	<0.1
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**0.2**	**3.5**	**3.2**	**20**	**13**	<0.1	<0.1	**19**	**19**
Fluorene	T207	M105	0.1	mg/kg	<0.1	**0.2**	**0.1**	**0.5**	**1.0**	<0.1	<0.1	**0.7**	**0.7**
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.5**	**0.4**	**3.4**	**1.8**	<0.1	<0.1	**2.1**	**2.4**
Isophorone	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	**0.4**	**0.3**	**0.4**	**0.9**	<0.1	<0.1	**0.4**	**0.2**

SAL Reference: 348302
Project Site: A63 Castle St - 40, 41, 42
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

SAL Reference					**348302 011**	**348302 012**	**348302 024**	**348302 035**	**348302 036**	**348302 037**	**348302 038**	**348302 045**	**348302 061**
Customer Sample Reference					**TP05 ES 002 0.5-0.6**	**TP04 ES 002 0.5-0.7**	**WS01 ES 001 0.2-0.4**	**SCPT14 TRENCH ES 001 0.4**	**SCPT18 ES 001 0.6-1.0**	**BH30A ES 001 10.0**	**BH30A ES 002 10.7**	**BH44 ES 002 0.8-1.2**	**WS10A ES 001 0.5**
Depth					**0.6**	**0.7**	**0.4**	**0.4**	**1.0**	**10.0**	**10.7**	**1.2**	**0.5**
Top Depth					**0.5**	**0.5**	**0.2**		**0.6**			**0.8**	
Date Sampled					**28-AUG-2013**	**28-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**	**30-AUG-2013**
Type					**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**	**Clay**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pentachlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**2.3**	**1.9**	**8.3**	**10**	<0.1	<0.1	**11**	**10**
Phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	**0.1**	**3.0**	**2.9**	**18**	**12**	<0.1	<0.1	**16**	**16**

SAL Reference: 348302
Project Site: A63 Castle St - 40, 41, 42
Customer Reference: 112630

Leachate to BS EN 12457-2 (10:1) Analysed as Water
Grontmij A63 Hull Leachate Suite

				SAL Reference	**348302 011**	**348302 027**	**348302 036**
				Customer Sample Reference	**TP05 ES 002 0.5-0.6**	**WS01 ES 004 2.5-3.0**	**SCPT18 ES 001 0.6-1.0**
				Depth	**0.6**	**3.0**	**1.0**
				Top Depth	**0.5**	**2.5**	**0.6**
				Date Sampled	**28-AUG-2013**	**29-AUG-2013**	**29-AUG-2013**
				Type	**Sandy Soil**	**Clay**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
pH	T7	10:1			**8.1**	**8.1**	**7.8**
As (Dissolved)	T281	10:1	0.2	µg/l	(13) **0.8**	(13) **3.2**	(13) **8.2**
Boron	T6	10:1	10	µg/l	<10	**10**	<10
Cd (Dissolved)	T281	10:1	0.02	µg/l	<0.02	<0.02	<0.02
Cr (Dissolved)	T281	10:1	1	µg/l	(13) **3**	(13) **5**	(13) **6**
Chromium (trivalent)	T85	10:1	3	µg/l	**3**	**5**	**6**
Chromium VI	T686	10:1	3	µg/l	<3	<3	<3
Cu (Dissolved)	T281	10:1	0.5	µg/l	**3.3**	**1.4**	**7.5**
Pb (Dissolved)	T281	10:1	0.3	µg/l	(13) <0.3	(13) <0.3	(13) **3.5**
Hg (Dissolved)	T281	10:1	0.05	µg/l	(13) <0.05	(13) <0.05	(13) <0.05
Ni (Dissolved)	T281	10:1	1	µg/l	<1	<1	**3**
Se (Dissolved)	T281	10:1	0.5	µg/l	**0.7**	**1.1**	**2.3**
Zn (Dissolved)	T281	10:1	2	µg/l	**3**	**3**	**8**
Sulphate	T686	10:1	0.5	mg/l	**1.0**	**64**	**24**
Sulphide	T4	10:1	0.05	mg/l	<0.05	<0.05	<0.05
Sulphur (total)	T65	10:1	0.01	mg/l	<0.01	<0.01	<0.01
Total Phenols	T16	10:1	0.5	µg/l	<0.5	<0.5	<0.5
Cyanide(Total)	T220	10:1	10	µg/l	**4100**	<10	<10
Cyanide(free)	T220	10:1	10	µg/l	<10	<10	<10
Acenaphthene	T149	10:1	0.01	µg/l	**0.05**	(100) <0.02	**0.10**
Acenaphthylene	T149	10:1	0.01	µg/l	**0.04**	(100) <0.02	**0.12**
Anthracene	T149	10:1	0.01	µg/l	(100) <0.04	**0.19**	**0.07**
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	**0.07**	**0.62**	**0.27**
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	**0.08**	**0.41**	**0.34**
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	**0.10**	**0.49**	**0.41**
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	**0.10**	**0.63**	**0.39**
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	**0.09**	**0.60**	**0.32**
Chrysene	T149	10:1	0.01	µg/l	**0.08**	**0.59**	**0.28**
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	(110) <0.10	**0.69**	**0.24**
Fluoranthene	T149	10:1	0.01	µg/l	**0.06**	**0.44**	**0.25**
Fluorene	T149	10:1	0.01	µg/l	**0.04**	**0.03**	**0.10**
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	**0.10**	**0.65**	**0.39**
Naphthalene	T149	10:1	0.01	µg/l	**0.07**	(100) <0.02	**0.14**
Phenanthrene	T149	10:1	0.01	µg/l	**0.07**	**0.21**	**0.17**
Pyrene	T149	10:1	0.01	µg/l	**0.05**	**0.43**	**0.26**
PAH(total)	T149	10:1	0.01	µg/l	**1.0**	**6.0**	**3.9**
PAH (sum of 4)	T85	10:1		µg/l	**0.29**	**2.4**	**1.5**
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	**0.19**	**1.1**	**0.73**
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	**0.10**	**1.3**	**0.78**
TPH (C8-C10) DW	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20
TPH (C10-C12) DW	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20
TPH (C12-C16) DW	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20
TPH (C16-C21) DW	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20
TPH (C21-C35) DW	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20
TPH (C35-C40)	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20
TPH (C8 - C40)	T85	10:1	10	µg/l	(110) <20	(110) <20	(110) <20

SAL Reference: 348302
Project Site: A63 Castle St - 40, 41, 42
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

SAL Reference	**348302 023**
Customer Sample Reference	**BH30 EW 7.5**
Depth	**7.5**
Date Sampled	**28-AUG-2013**

Determinand	Method	Test Sample	LOD	Units	
pH	T7	AR			**7.2**
As (Dissolved)	T281	AR	0.2	µg/l	(13) **20**
Boron	T6	AR	10	µg/l	**1100**
Cd (Dissolved)	T281	AR	0.02	µg/l	**0.07**
Cr (Dissolved)	T281	AR	1	µg/l	(13) **36**
Chromium (trivalent)	T85	AR	3	µg/l	**36**
Chromium VI	T686	AR	3	µg/l	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**3.4**
Pb (Dissolved)	T281	AR	0.3	µg/l	(13) **2.4**
Hg (Dissolved)	T281	AR	0.05	µg/l	(13) **1.5**
Ni (Dissolved)	T281	AR	1	µg/l	**5**
Se (Dissolved)	T281	AR	0.5	µg/l	**13**
Zn (Dissolved)	T281	AR	2	µg/l	**4**
Calcium	T6	AR	100	µg/l	**89000**
Magnesium	T6	AR	100	µg/l	**100000**
Potassium	T6	AR	100	µg/l	**100000**
Sodium	T6	AR	100	µg/l	**370000**
Nitrate	T686	AR	0.5	mg/l	<0.5
Nitrite	T686	AR	0.1	mg/l	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	<0.1
Sulphate	T686	AR	0.5	mg/l	**290**
Sulphide	T4	AR	0.05	mg/l	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**98**
Chloride	T686	AR	1	mg/l	**780**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**7.7**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**9.8**
Suspended Solids (Total)	T2	AR	10	mg/l	**400000**
Electrical Conductivity	T7	AR	10	µS/cm	**1000**
Total Phenols	T16	AR	0.5	µg/l	<0.5
Cyanide(Total)	T220	AR	10	µg/l	<10
Cyanide(free)	T220	AR	10	µg/l	<10
Acenaphthene	T149	AR	0.01	µg/l	(100) <0.10
Acenaphthylene	T149	AR	0.01	µg/l	(100) <0.10
Anthracene	T149	AR	0.01	µg/l	(100) <0.10
Benzo(a)Anthracene	T149	AR	0.01	µg/l	**0.10**
Benzo(a)Pyrene	T149	AR	0.01	µg/l	**0.10**
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	**0.19**
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	**0.26**
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	**0.11**
Chrysene	T149	AR	0.01	µg/l	**0.17**
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	**0.17**
Fluoranthene	T149	AR	0.01	µg/l	**0.21**
Fluorene	T149	AR	0.01	µg/l	(100) <0.10
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	**0.16**
Naphthalene	T149	AR	0.01	µg/l	(100) <0.10
Phenanthrene	T149	AR	0.01	µg/l	**0.20**
Pyrene	T149	AR	0.01	µg/l	**0.23**
PAH(total)	T149	AR	0.01	µg/l	**1.9**
TPH (C8-C10) DW	T81	AR	10	µg/l	<10
TPH (C10-C12) DW	T81	AR	10	µg/l	<10
TPH (C12-C16) DW	T81	AR	10	µg/l	<10
TPH (C16-C21) DW	T81	AR	10	µg/l	**24**
TPH (C21-C35) DW	T81	AR	10	µg/l	**130**
TPH (C35-C40)	T81	AR	10	µg/l	**13**
TPH (C8 - C40)	T85	AR	10	µg/l	**160**

Index to symbols used in 348302-1

Value	Description
AR	As Received
10:1	Leachate to BS EN 12457-2 (10:1)
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
N.D.	Not Detected
100	LOD determined by sample aliquot used for analysis
9	LOD raised due to dilution of sample
110	LOD raised due to low internal standard recovery.
13	Results have been blank corrected.
W	Analysis was performed at another SAL laboratory
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T206	GC/FID (MCERTS)
T162	Grav (1 Dec) (105 C)
T220	Colorimetry (SD)
T286	Calc TOC/100
T8	GC/FID
T179	Colorimetry (XION 500)
T546	Colorimetry (CF)
T16	GC/MS
T1	GC/MS (HR)
T277	Grav (1 Dec) (40 C)
T7	Probe
T4	Colorimetry
T2	Grav
T686	Discrete Analyser
T6	ICP/OES
T207	GC/MS(MCERTS)
T149	GC/MS (SIR)
T85	Calc
T209	GC/MS(Head Space)(MCERTS)
T27	PLM
T65	ICP/OES (Preconc.)
T81	GC/FID (LV)
T281	ICP/MS (Filtered)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture @ 105 C	T162	AR	0.1	%	N	004,006-007,009,011-012,014-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Moisture	T277	AR	0.1	%	N	004,006-007,009,011-012,014-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Asbestos ID	T27	AR			SU	006-007,009,011-012,015-016,019-020,022,024-025,030,035-036,039,045-046,048-050,054,060-061
pH	T7	AR			M	004,006-007,009,011-012,015-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Mass Fraction of organic carbon	T286	M40			N	004,016,022,027,037-039,044,058
Arsenic	T6	M40	2	mg/kg	M	004,006-007,009,011-012,014-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Boron (water-soluble)	T6	AR	1	mg/kg	N	004,006-007,009,011-012,014-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Cadmium	T6	M40	1	mg/kg	M	004,006-007,009,011-012,014-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Chromium	T6	M40	1	mg/kg	M	004,006-007,009,011-012,014-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Chromium (trivalent)	T85	AR	2	mg/kg	N	004,006-007,009,011-012,014-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Chromium VI	T6	AR	1	mg/kg	N	004,006-007,009,011-012,014-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Copper	T6	M40	1	mg/kg	M	004,006-007,009,011-012,014-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Lead	T6	M40	1	mg/kg	M	004,006-007,009,011-012,014-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Mercury	T6	M40	1	mg/kg	M	004,006-007,009,011-012,014-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Nickel	T6	M40	1	mg/kg	M	004,006-007,009,011-012,014-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Selenium	T6	M40	3	mg/kg	M	004,006-007,009,011-012,014-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Zinc	T6	M40	1	mg/kg	M	004,006-007,009,011-012,014-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Cyanide(Total)	T546	AR	1	mg/kg	M	004,006-007,009,011-012,015-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Cyanide(free)	T546	AR	1	mg/kg	M	004,006-007,009,011-012,015-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
SO4(Total)	T6	M40	0.01	%	N	004,006-007,009,011-012,015-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Total Phenols	T149	AR	0.01	mg/kg	U	004,006-007,009,011-012,015-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Acenaphthene	T207	M105	0.1	mg/kg	M	004,006-007,009,011-012,015-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Acenaphthylene	T207	M105	0.1	mg/kg	U	004,006-007,009,011-012,015-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Anthracene	T207	M105	0.1	mg/kg	U	004,006-007,009,011-012,015-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	004,006-007,009,011-012,015-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	004,006-007,009,011-012,015-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	004,006-007,009,011-012,015-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	004,006-007,009,011-012,015-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	004,006-007,009,011-012,015-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Chrysene	T207	M105	0.1	mg/kg	M	004,006-007,009,011-012,015-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	004,006-007,009,011-012,015-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Fluoranthene	T207	M105	0.1	mg/kg	M	004,006-007,009,011-012,015-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Fluorene	T207	M105	0.1	mg/kg	M	004,006-007,009,011-012,015-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	004,006-007,009,011-012,015-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Naphthalene	T207	M105	0.1	mg/kg	M	004,006-007,009,011-012,015-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Phenanthrene	T207	M105	0.1	mg/kg	M	004,006-007,009,011-012,015-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
Pyrene	T207	M105	0.1	mg/kg	M	004,006-007,009,011-012,015-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
PAH(total)	T207	M105	0.1	mg/kg	U	004,006-007,009,011-012,015-016,019-020,022,024-025,027,030,034-039,044-046,048-050,054,058,060-061
TPH (C8-C10)	T8	M105	1	mg/kg	N	004,006-007,009,015-016,020,025,027,030,034,039,044,046,048-049,054,058
TPH (C10-C12)	T206	M105	1	mg/kg	M	004,006-007,009,015-016,020,025,027,030,034,039,044,046,048-049,054,058
TPH (C12-C16)	T206	M105	1	mg/kg	M	004,006-007,009,015-016,020,025,027,030,034,039,044,046,048-049,054,058
TPH (C16-C21)	T206	M105	1	mg/kg	M	004,006-007,009,015-016,020,025,027,030,034,039,044,046,048-049,054,058
TPH (C21-C35)	T206	M105	1	mg/kg	M	004,006-007,009,015-016,020,025,027,030,034,039,044,046,048-049,054,058
TPH (C35-C40)	T8	M105	1	mg/kg	N	004,006-007,009,015-016,020,025,027,030,034,039,044,046,048-049,054,058
TPH (C8 - C40)	T85	M105	1	mg/kg	N	004,006-007,009,015-016,020,025,027,030,034,039,044,046,048-049,054,058
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	N	011-012,019,022,024,035-038,045,050,060-061
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	N	011-012,019,022,024,035-038,045,050,060-061
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	N	011-012,019,022,024,035-038,045,050,060-061
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	M	011-012,019,022,024,035-038,045,050,060-061
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	M	011-012,019,022,024,035-038,045,050,060-061
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	M	011-012,019,022,024,035-038,045,050,060-061
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	M	011-012,019,022,024,035-038,045,050,060-061
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	N	011-012,019,022,024,035-038,045,050,060-061
TPH (Aliphatic) total	T85	M105		mg/kg	N	011-012,019,022,024,035-038,045,050,060-061
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	N	011-012,019,022,024,035-038,045,050,060-061
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	N	011-012,019,022,024,035-038,045,050,060-061
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	N	011-012,019,022,024,035-038,045,050,060-061
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	M	011-012,019,022,024,035-038,045,050,060-061
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	M	011-012,019,022,024,035-038,045,050,060-061
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	M	011-012,019,022,024,035-038,045,050,060-061
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	M	011-012,019,022,024,035-038,045,050,060-061
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	N	011-012,019,022,024,035-038,045,050,060-061

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
TPH (Aromatic) total	T85	M105		mg/kg	N	011-012,019,022,024,035-038,045,050,060-061
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N	011-012,019,022,024,035-038,045,050,060-061
Toluene	T209	M105	0.010	mg/kg	M	011-012,019,022,024,035-038,045,050,060-061
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	M	011-012,019,022,024,035-038,045,050,060-061
O Xylene	T209	M105	0.010	mg/kg	M	011-012,019,022,024,035-038,045,050,060-061
PCB BZ#101	T1	M105	0.00005	mg/kg	M	011-012,024,035-036,045,060
PCB BZ#118	T1	M105	0.00005	mg/kg	M	011-012,024,035-036,045,060
PCB BZ#138	T1	M105	0.00005	mg/kg	M	011-012,024,035-036,045,060
PCB BZ#153	T1	M105	0.00005	mg/kg	M	011-012,024,035-036,045,060
PCB BZ#180	T1	M105	0.00005	mg/kg	M	011-012,024,035-036,045,060
PCB BZ#28	T1	M105	0.00005	mg/kg	M	011-012,024,035-036,045,060
PCB BZ#52	T1	M105	0.00005	mg/kg	M	011-012,024,035-036,045,060
pH	T7	10:1			U	011,027,036
As (Dissolved)	T281	10:1	0.2	µg/l	U	011,027,036
Boron	T6	10:1	10	µg/l	N	011,027,036
Cd (Dissolved)	T281	10:1	0.02	µg/l	U	011,027,036
Cr (Dissolved)	T281	10:1	1	µg/l	U	011,027,036
Chromium (trivalent)	T85	10:1	3	µg/l	N	011,027,036
Chromium VI	T686	10:1	3	µg/l	U	011,027,036
Cu (Dissolved)	T281	10:1	0.5	µg/l	U	011,027,036
Pb (Dissolved)	T281	10:1	0.3	µg/l	U	011,027,036
Hg (Dissolved)	T281	10:1	0.05	µg/l	U	011,027,036
Ni (Dissolved)	T281	10:1	1	µg/l	U	011,027,036
Se (Dissolved)	T281	10:1	0.5	µg/l	U	011,027,036
Zn (Dissolved)	T281	10:1	2	µg/l	U	011,027,036
Sulphate	T686	10:1	0.5	mg/l	U	011,027,036
Sulphide	T4	10:1	0.05	mg/l	N	011,027,036
Sulphur (total)	T65	10:1	0.01	mg/l	N	011,027,036
Total Phenols	T16	10:1	0.5	µg/l	U	011,027,036
Cyanide(Total)	T220	10:1	10	µg/l	WU	011,027,036
Cyanide(free)	T220	10:1	10	µg/l	WN	011,027,036
Acenaphthene	T149	10:1	0.01	µg/l	U	011,027,036
Acenaphthylene	T149	10:1	0.01	µg/l	U	011,027,036
Anthracene	T149	10:1	0.01	µg/l	U	011,027,036
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	U	011,027,036
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	U	011,027,036
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	U	011,027,036
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	U	011,027,036
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	U	011,027,036
Chrysene	T149	10:1	0.01	µg/l	U	011,027,036
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	U	011,027,036
Fluoranthene	T149	10:1	0.01	µg/l	U	011,027,036
Fluorene	T149	10:1	0.01	µg/l	U	011,027,036
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	U	011,027,036
Naphthalene	T149	10:1	0.01	µg/l	U	011,027,036
Phenanthrene	T149	10:1	0.01	µg/l	U	011,027,036
Pyrene	T149	10:1	0.01	µg/l	U	011,027,036
PAH(total)	T149	10:1	0.01	µg/l	U	011,027,036
PAH (sum of 4)	T85	10:1		µg/l	N	011,027,036
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	U	011,027,036
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	N	011,027,036
TPH (C8-C10) DW	T81	10:1	10	µg/l	U	011,027,036
TPH (C10-C12) DW	T81	10:1	10	µg/l	U	011,027,036
TPH (C12-C16) DW	T81	10:1	10	µg/l	U	011,027,036
TPH (C16-C21) DW	T81	10:1	10	µg/l	U	011,027,036
TPH (C21-C35) DW	T81	10:1	10	µg/l	U	011,027,036
TPH (C35-C40)	T81	10:1	10	µg/l	N	011,027,036
TPH (C8 - C40)	T85	10:1	10	µg/l	N	011,027,036
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	011-012,024,035-038,045,061
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	011-012,024,035-038,045,061
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	011-012,024,035-038,045,061
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	011-012,024,035-038,045,061
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	U	011-012,024,035-038,045,061
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	011-012,024,035-038,045,061
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
2-Chlorophenol	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
2-methyl phenol	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
2-Nitroaniline	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
2-Nitrophenol	T207	M105	0.1	mg/kg	U	011-012,024,035-038,045,061
3-Nitroaniline	T207	M105	0.1	mg/kg	U	011-012,024,035-038,045,061
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
4-Chloroaniline	T207	M105	0.1	mg/kg	U	011-012,024,035-038,045,061
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
4-Nitroaniline	T207	M105	0.1	mg/kg	U	011-012,024,035-038,045,061
4-Nitrophenol	T207	M105	0.1	mg/kg	U	011-012,024,035-038,045,061
Azobenzene	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	011-012,024,035-038,045,061
Carbazole	T207	M105	0.1	mg/kg	U	011-012,024,035-038,045,061
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
Dibenzofuran	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
Diethyl phthalate	T207	M105	0.1	mg/kg	U	011-012,024,035-038,045,061
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	011-012,024,035-038,045,061
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	011-012,024,035-038,045,061
Hexachloroethane	T207	M105	0.1	mg/kg	U	011-012,024,035-038,045,061
Isophorone	T207	M105	0.1	mg/kg	U	011-012,024,035-038,045,061
Nitrobenzene	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
Pentachlorophenol	T207	M105	0.1	mg/kg	U	011-012,024,035-038,045,061
Phenol	T207	M105	0.1	mg/kg	M	011-012,024,035-038,045,061
pH	T7	AR			U	023
As (Dissolved)	T281	AR	0.2	µg/l	U	023
Boron	T6	AR	10	µg/l	N	023
Cd (Dissolved)	T281	AR	0.02	µg/l	U	023
Cr (Dissolved)	T281	AR	1	µg/l	U	023
Chromium (trivalent)	T85	AR	3	µg/l	N	023
Chromium VI	T686	AR	3	µg/l	U	023
Cu (Dissolved)	T281	AR	0.5	µg/l	U	023
Pb (Dissolved)	T281	AR	0.3	µg/l	U	023
Hg (Dissolved)	T281	AR	0.05	µg/l	U	023
Ni (Dissolved)	T281	AR	1	µg/l	U	023
Se (Dissolved)	T281	AR	0.5	µg/l	U	023
Zn (Dissolved)	T281	AR	2	µg/l	U	023
Calcium	T6	AR	100	µg/l	N	023
Magnesium	T6	AR	100	µg/l	N	023
Potassium	T6	AR	100	µg/l	N	023
Sodium	T6	AR	100	µg/l	N	023
Nitrate	T686	AR	0.5	mg/l	U	023
Nitrite	T686	AR	0.1	mg/l	U	023
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	023
Sulphate	T686	AR	0.5	mg/l	U	023
Sulphide	T4	AR	0.05	mg/l	N	023
Sulphur (total)	T65	AR	0.01	mg/l	N	023
Chloride	T686	AR	1	mg/l	U	023
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	023
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	023
Suspended Solids (Total)	T2	AR	10	mg/l	N	023
Electrical Conductivity	T7	AR	10	µS/cm	N	023
Total Phenols	T16	AR	0.5	µg/l	U	023
Cyanide(Total)	T220	AR	10	µg/l	WU	023
Cyanide(free)	T220	AR	10	µg/l	WN	023
Acenaphthene	T149	AR	0.01	µg/l	U	023
Acenaphthylene	T149	AR	0.01	µg/l	U	023
Anthracene	T149	AR	0.01	µg/l	U	023
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	023
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	023

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	023
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	023
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	023
Chrysene	T149	AR	0.01	µg/l	U	023
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	023
Fluoranthene	T149	AR	0.01	µg/l	U	023
Fluorene	T149	AR	0.01	µg/l	U	023
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	023
Naphthalene	T149	AR	0.01	µg/l	U	023
Phenanthrene	T149	AR	0.01	µg/l	U	023
Pyrene	T149	AR	0.01	µg/l	U	023
PAH(total)	T149	AR	0.01	µg/l	U	023
TPH (C8-C10) DW	T81	AR	10	µg/l	U	023
TPH (C10-C12) DW	T81	AR	10	µg/l	U	023
TPH (C12-C16) DW	T81	AR	10	µg/l	U	023
TPH (C16-C21) DW	T81	AR	10	µg/l	U	023
TPH (C21-C35) DW	T81	AR	10	µg/l	U	023
TPH (C35-C40)	T81	AR	10	µg/l	N	023
TPH (C8 - C40)	T85	AR	10	µg/l	N	023
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	U	011-012,024,035-038,045,061
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
1,1-Dichloroethane	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
1,1-Dichloropropene	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	U	011-012,024,035-038,045,061
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
1,2-dibromoethane	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
1,2-Dichloroethane	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
1,2-Dichloropropane	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
1,3-Dichloropropane	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
2,2-Dichloropropane	T209	M105	0.050	mg/kg	U	011-012,024,035-038,045,061
2-Chlorotoluene	T209	M105	0.050	mg/kg	U	011-012,024,035-038,045,061
4-Chlorotoluene	T209	M105	0.050	mg/kg	U	011-012,024,035-038,045,061
Benzene	T209	M105	0.010	mg/kg	M	011-012,019,022,024,035-038,045,050,060-061
Bromobenzene	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
Bromochloromethane	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
Bromodichloromethane	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
Bromoform	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
Bromomethane	T209	M105	0.050	mg/kg	U	011-012,024,035-038,045,061
Carbon tetrachloride	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
Chlorobenzene	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
Chlorodibromomethane	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
Chloroethane	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
Chloroform	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
Chloromethane	T209	M105	0.050	mg/kg	U	011-012,024,035-038,045,061
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
Dibromomethane	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
Dichloromethane	T209	M105	0.050	mg/kg	U	011-012,024,035-038,045,061
EthylBenzene	T209	M105	0.010	mg/kg	M	011-012,019,022,024,035-038,045,050,060-061
Isopropyl benzene	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
M/P Xylene	T209	M105	0.010	mg/kg	M	011-012,019,022,024,035-038,045,050,060-061
n-Propylbenzene	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
p-Isopropyltoluene	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
S-Butylbenzene	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
Styrene	T209	M105	0.050	mg/kg	U	011-012,024,035-038,045,061
T-Butylbenzene	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
Tetrachloroethene	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
Trichloroethene	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
Trichlorofluoromethane	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061
Vinyl chloride	T209	M105	0.050	mg/kg	M	011-012,024,035-038,045,061

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 349049-1

Date of Report: 20-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 43
Date Job Received at SAL: 04-Sep-2013
Date Analysis Started: 09-Sep-2013
Date Analysis Completed: 19-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
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Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked and authorised by :
Mr Ross Walker
Customer Services Manager (Land)

Issued by :
Mr Ross Walker
Customer Services Manager (Land)

[redacted]

SAL Reference: 349049
Project Site: A63 Castle St - 43
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

	SAL Reference	349049 001	349049 004	349049 007	349049 008	349049 012	349049 017	349049 018	349049 021
	Customer Sample Reference	WS10A ES 003 1.4-1.6	WS10A ES 006 3.7-4.0	SCPT31 ES 002 1.0	WS24 ES 001 1.2-1.8	WS24 ES 005 3.05-3.5	WS25 ES 002 1.83-2.0	WS25 ES 003 2.0-2.5	WS25 ES 006 3.15-3.77
	Date Sampled	03-SEP-2013	03-SEP-2013	03-SEP-2013	03-SEP-2013	03-SEP-2013	03-SEP-2013	03-SEP-2013	03-SEP-2013
	Depth	1.6	4.0	1.0	1.8	3.5	2.0	2.5	3.77
	Top Depth	1.4	3.7		1.2	3.05	1.83	2.0	3.15
	Type	Clay	Clay	Sandy Soil	Clay	Clay	Clay	Clay	Clay
Determinand	**Method** / **Test Sample** / **LOD** / **Units**								
Moisture @ 105 C	T162 AR 0.1 %	29	27	6.1	28	23	26	22	24
Moisture	T277 AR 0.1 %	24	28	7.0	23	23	23	20	24
Asbestos ID	T27 AR	N.D.	-	N.D.	N.D.	-	N.D.	N.D.	-
pH	T7 AR	8.3	7.8	10.8	8.3	7.9	7.5	7.5	7.5
Mass Fraction of organic carbon	T286 M40	-	0.0072	-	-	0.0093	-	-	0.0059
Arsenic	T6 M40 2 mg/kg	13	9	9	12	10	15	12	9
Boron (water-soluble)	T6 AR 1 mg/kg	1	<1	<1	<1	<1	<1	<1	<1
Cadmium	T6 M40 1 mg/kg	<1	<1	1	<1	<1	<1	<1	<1
Chromium	T6 M40 1 mg/kg	27	16	7	15	21	23	25	18
Chromium (trivalent)	T85 AR 2 mg/kg	27	16	7	15	21	23	25	18
Chromium VI	T6 AR 1 mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Copper	T6 M40 1 mg/kg	79	10	56	23	16	30	21	10
Lead	T6 M40 1 mg/kg	48	11	20	49	16	190	39	11
Mercury	T6 M40 1 mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	T6 M40 1 mg/kg	27	18	11	18	22	26	26	18
Selenium	T6 M40 3 mg/kg	<3	<3	<3	<3	<3	<3	<3	<3
Zinc	T6 M40 1 mg/kg	730	49	170	56	59	84	88	49
Cyanide(Total)	T546 AR 1 mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Cyanide(free)	T546 AR 1 mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
SO4(Total)	T6 M40 0.01 %	0.25	0.90	0.34	0.08	0.08	0.49	0.11	0.04
Total Phenols	T149 AR 0.01 mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	T207 M105 0.1 mg/kg	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1
Acenaphthylene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T207 M105 0.1 mg/kg	<0.1	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)Pyrene	T207 M105 0.1 mg/kg	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene	T207 M105 0.1 mg/kg	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	T207 M105 0.1 mg/kg	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	T207 M105 0.1 mg/kg	<0.1	<0.1	0.5	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	T207 M105 0.1 mg/kg	<0.1	<0.1	1.0	<0.1	<0.1	<0.1	0.4	<0.1
Fluorene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1
Indeno(123-cd)Pyrene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.2	<0.1
Phenanthrene	T207 M105 0.1 mg/kg	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	0.4	<0.1
Pyrene	T207 M105 0.1 mg/kg	<0.1	<0.1	1.1	<0.1	<0.1	<0.1	0.3	<0.1
PAH(total)	T207 M105 0.1 mg/kg	0.3	<0.1	3.8	<0.1	<0.1	0.2	1.9	<0.1
TPH (C8-C10)	T8 M105 1 mg/kg	<1	<1	<1	<1	<1	-	-	-
TPH (C10-C12)	T206 M105 1 mg/kg	<1	<1	<1	<1	<1	-	-	-
TPH (C12-C16)	T206 M105 1 mg/kg	2	<1	<1	<1	<1	-	-	-
TPH (C16-C21)	T206 M105 1 mg/kg	<1	<1	2	<1	<1	-	-	-
TPH (C21-C35)	T206 M105 1 mg/kg	1	<1	6	2	<1	-	-	-
TPH (C35-C40)	T8 M105 1 mg/kg	1	<1	1	<1	<1	-	-	-
TPH (C8 - C40)	T85 M105 1 mg/kg	4	<1	9	2	<1	-	-	-
TPH (C5-C6 aliphatic)	T209 M105 0.100 mg/kg	-	-	-	-	-	<0.100	<0.100	<0.100
TPH (C6-C8 aliphatic)	T209 M105 0.10 mg/kg	-	-	-	-	-	<0.10	0.35	0.31
TPH (C8-C10 aliphatic)	T209 M105 0.10 mg/kg	-	-	-	-	-	2.4	5.7	0.58
TPH (C10-C12 aliphatic)	T206 M105 1 mg/kg	-	-	-	-	-	72	86	<1
TPH (C12-C16 aliphatic)	T206 M105 2 mg/kg	-	-	-	-	-	300	270	<2
TPH (C16-C21 aliphatic)	T206 M105 1 mg/kg	-	-	-	-	-	120	100	1
TPH (C21-C35 aliphatic)	T206 M105 4 mg/kg	-	-	-	-	-	10	7	<4
TPH (C35-C44 aliphatic)	T8 M105 1 mg/kg	-	-	-	-	-	<1	<1	<1

SAL Reference: 349049
Project Site: A63 Castle St - 43
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Soil Analysed as Soil
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				SAL Reference	**349049 001**	**349049 004**	**349049 007**	**349049 008**	**349049 012**	**349049 017**	**349049 018**	**349049 021**
				Customer Sample Reference	**WS10A ES 003 1.4-1.6**	**WS10A ES 006 3.7-4.0**	**SCPT31 ES 002 1.0**	**WS24 ES 001 1.2-1.8**	**WS24 ES 005 3.05-3.5**	**WS25 ES 002 1.83-2.0**	**WS25 ES 003 2.0-2.5**	**WS25 ES 006 3.15-3.77**
				Date Sampled	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**
				Depth	**1.6**	**4.0**	**1.0**	**1.8**	**3.5**	**2.0**	**2.5**	**3.77**
				Top Depth	**1.4**	**3.7**		**1.2**	**3.05**	**1.83**	**2.0**	**3.15**
				Type	**Clay**	**Clay**	**Sandy Soil**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
TPH (Aliphatic) total	T85	M105		mg/kg	-	-	-	-	-	**500**	**470**	**1.9**
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	-	-	-	-	-	<0.10	<0.10	<0.10
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	-	-	-	-	-	<0.10	<0.10	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	-	-	-	-	-	<0.10	**0.42**	**0.27**
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	-	-	-	-	-	**3**	**8**	<1
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	-	-	-	-	-	**45**	**61**	<1
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	-	-	-	-	-	**40**	**33**	<1
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	-	-	-	-	-	**8**	**4**	<1
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	-	-	-	-	-	<1	<1	<1
TPH (Aromatic) total	T85	M105		mg/kg	-	-	-	-	-	**96**	**110**	**0.27**
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	-	-	-	-	-	**600**	**580**	**2.2**
Benzene	T209	M105	0.010	mg/kg	-	-	-	-	-	<0.010	<0.010	<0.010
Toluene	T209	M105	0.010	mg/kg	-	-	-	-	-	<0.010	<0.010	**0.037**
EthylBenzene	T209	M105	0.010	mg/kg	-	-	-	-	-	<0.010	<0.010	**0.017**
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	-	-	-	-	-	<0.010	<0.010	<0.010
O Xylene	T209	M105	0.010	mg/kg	-	-	-	-	-	<0.010	**0.022**	**0.038**
M/P Xylene	T209	M105	0.010	mg/kg	-	-	-	-	-	<0.010	**0.038**	**0.085**

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Project Site: A63 Castle St - 43
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Soil Analysed as Soil
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	SAL Reference	349049 025	349049 026	349049 028	349049 030	349049 035	349049 036	349049 042	349049 043
	Customer Sample Reference	WS26 ES 003 1.2-1.5	WS26 ES 005 1.7-2.0	WS26 ES 006 2.0-2.5	WS26 ES 008 3.05-3.5	BH47 ES 003 12.0	BH47 ES 004 14.0	TP18 ES 002 0.25-0.4	TP18 ES 010
	Date Sampled	03-SEP-2013	03-SEP-2013	03-SEP-2013	03-SEP-2013	03-SEP-2013	03-SEP-2013	03-SEP-2013	03-SEP-2013
	Depth	1.5	2.0	2.5	3.5	12.0	14.0	0.4	
	Top Depth	1.2	1.7	2.0	3.05			0.25	
	Type	Clay	Clay	Clay	Clay	Sandy Soil	Clay	Sandy Soil	
Determinand	**Method** / **Test Sample** / **LOD** / **Units**								
Moisture @ 105 C	T162 AR 0.1 %	**23**	**22**	**26**	**28**	**22**	**41**	**11**	-
Moisture	T277 AR 0.1 %	**39**	**23**	**23**	**28**	**23**	**43**	**8.5**	-
Asbestos ID	T27 AR	N.D.	N.D.	N.D.	-	-	-	N.D.	Asbestos Cement **-** Chrysotile Detected **-**
pH	T7 AR	**7.9**	**7.8**	**7.9**	**7.8**	**7.9**	**7.9**	**8.2**	-
Mass Fraction of organic carbon	T286 M40	-	-	-	-	**0.0019**	**0.062**	-	-
Arsenic	T6 M40 2 mg/kg	**12**	**10**	**10**	**8**	**7**	**7**	**17**	-
Boron (water-soluble)	T6 AR 1 mg/kg	<1	<1	<1	<1	<1	**2**	<1	-
Cadmium	T6 M40 1 mg/kg	<1	<1	<1	<1	<1	<1	<1	-
Chromium	T6 M40 1 mg/kg	**24**	**19**	**19**	**15**	**6**	**16**	**14**	-
Chromium (trivalent)	T85 AR 2 mg/kg	**24**	**19**	**19**	**15**	**6**	**16**	**14**	-
Chromium VI	T6 AR 1 mg/kg	<1	<1	<1	<1	<1	<1	<1	-
Copper	T6 M40 1 mg/kg	**17**	**13**	**13**	**9**	**4**	**13**	**54**	-
Lead	T6 M40 1 mg/kg	**37**	**14**	**13**	**11**	**5**	**13**	**190**	-
Mercury	T6 M40 1 mg/kg	<1	<1	<1	<1	<1	<1	<1	-
Nickel	T6 M40 1 mg/kg	**27**	**20**	**20**	**16**	**7**	**29**	**19**	-
Selenium	T6 M40 3 mg/kg	<3	<3	<3	<3	<3	<3	<3	-
Zinc	T6 M40 1 mg/kg	**73**	**55**	**52**	**44**	**25**	**100**	**130**	-
Cyanide(Total)	T546 AR 1 mg/kg	<1	<1	<1	<1	<1	<1	<1	-
Cyanide(free)	T546 AR 1 mg/kg	<1	<1	<1	<1	<1	<1	<1	-
SO4(Total)	T6 M40 0.01 %	**0.20**	**0.08**	**0.14**	**0.66**	**0.25**	**4.2**	**0.12**	-
Total Phenols	T149 AR 0.01 mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.11**	-
Acenaphthene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
Acenaphthylene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
Anthracene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.2**	-
Benzo(a)Anthracene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.7**	-
Benzo(a)Pyrene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.5**	-
Benzo(b)fluoranthene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.5**	-
Benzo(ghi)Perylene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.3**	-
Benzo(k)fluoranthene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.5**	-
Chrysene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.7**	-
Dibenzo(ah)Anthracene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
Fluoranthene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**1.6**	-
Fluorene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-
Indeno(123-cd)Pyrene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.2**	-
Naphthalene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.1**	-
Phenanthrene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.7**	-
Pyrene	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**1.5**	-
PAH(total)	T207 M105 0.1 mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**7.6**	-
TPH (C8-C10)	T8 M105 1 mg/kg	-	-	-	-	<1	-	-	-
TPH (C10-C12)	T206 M105 1 mg/kg	-	-	-	-	<1	-	-	-
TPH (C12-C16)	T206 M105 1 mg/kg	-	-	-	-	<1	-	-	-
TPH (C16-C21)	T206 M105 1 mg/kg	-	-	-	-	<1	-	-	-
TPH (C21-C35)	T206 M105 1 mg/kg	-	-	-	-	<1	-	-	-
TPH (C35-C40)	T8 M105 1 mg/kg	-	-	-	-	<1	-	-	-
TPH (C8 - C40)	T85 M105 1 mg/kg	-	-	-	-	<1	-	-	-
TPH (C5-C6 aliphatic)	T209 M105 0.100 mg/kg	<0.100	<0.100	<0.100	<0.100	-	<0.100	<0.100	-
TPH (C6-C8 aliphatic)	T209 M105 0.10 mg/kg	**0.13**	**0.25**	<0.10	<0.10	-	<0.10	<0.10	-
TPH (C8-C10 aliphatic)	T209 M105 0.10 mg/kg	**1.4**	**1.3**	<0.10	<0.10	-	<0.10	<0.10	-
TPH (C10-C12 aliphatic)	T206 M105 1 mg/kg	**7**	<1	<1	<1	-	<1	<1	-

SAL Reference: 349049
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Miscellaneous

				SAL Reference	**349049 025**	**349049 026**	**349049 028**	**349049 030**	**349049 035**	**349049 036**	**349049 042**	**349049 043**
				Customer Sample Reference	**WS26 ES 003 1.2-1.5**	**WS26 ES 005 1.7-2.0**	**WS26 ES 006 2.0-2.5**	**WS26 ES 008 3.05-3.5**	**BH47 ES 003 12.0**	**BH47 ES 004 14.0**	**TP18 ES 002 0.25-0.4**	**TP18 ES 010**
				Date Sampled	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**
				Depth	**1.5**	**2.0**	**2.5**	**3.5**	**12.0**	**14.0**	**0.4**	
				Top Depth	**1.2**	**1.7**	**2.0**	**3.05**			**0.25**	
				Type	**Clay**	**Clay**	**Clay**	**Clay**	**Sandy Soil**	**Clay**	**Sandy Soil**	
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	**38**	**3**	<2	<2	-	<2	<2	-
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	**40**	**5**	**2**	**2**	-	**2**	**2**	-
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	**12**	<4	<4	<4	-	<4	<4	-
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	<1	<1	<1	<1	-	<1	<1	-
TPH (Aliphatic) total	T85	M105		mg/kg	**99**	**9.6**	**2.0**	**2.0**	-	**2.0**	**2.0**	-
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	-	<0.10	<0.10	-
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	-	<0.10	<0.10	-
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	-	<0.10	**0.16**	-
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	<1	<1	<1	<1	-	<1	<1	-
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	**4**	<1	<1	<1	-	<1	**4**	-
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	**6**	<1	<1	**1**	-	<1	**25**	-
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	**1**	<1	<1	<1	-	**5**	**44**	-
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	<1	<1	<1	<1	-	<1	**4**	-
TPH (Aromatic) total	T85	M105		mg/kg	**11**	N.D.	N.D.	**1.0**	-	**5.0**	**77**	-
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	**110**	**9.6**	**2.0**	**3.0**	-	**7.0**	**79**	-
Benzene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010	<0.010	-	<0.010	<0.010	-
Toluene	T209	M105	0.010	mg/kg	<0.010	<0.010	**0.027**	**0.026**	-	<0.010	**0.018**	-
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010	<0.010	-	<0.010	<0.010	-
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010	<0.010	-	<0.010	<0.010	-
O Xylene	T209	M105	0.010	mg/kg	<0.010	<0.010	**0.021**	**0.021**	-	<0.010	**0.018**	-
M/P Xylene	T209	M105	0.010	mg/kg	<0.010	<0.010	**0.027**	<0.010	-	<0.010	**0.055**	-
PCB BZ#101	T1	M105	0.00005	mg/kg	-	-	-	-	-	-	(9) <0.00050	-
PCB BZ#118	T1	M105	0.00005	mg/kg	-	-	-	-	-	-	(9) <0.00050	-
PCB BZ#138	T1	M105	0.00005	mg/kg	-	-	-	-	-	-	(9) <0.00050	-
PCB BZ#153	T1	M105	0.00005	mg/kg	-	-	-	-	-	-	(9) <0.00050	-
PCB BZ#180	T1	M105	0.00005	mg/kg	-	-	-	-	-	-	(9) <0.00050	-
PCB BZ#28	T1	M105	0.00005	mg/kg	-	-	-	-	-	-	(9) <0.00050	-
PCB BZ#52	T1	M105	0.00005	mg/kg	-	-	-	-	-	-	(9) <0.00050	-

SAL Reference: 349049
Project Site: A63 Castle St - 43
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**349049 044**	**349049 048**	**349049 050**	**349049 051**	**349049 058**	**349049 062**	**349049 066**	**349049 075**
				Customer Sample Reference	**TP18 ES 003 0.65-0.7**	**TP18A ES 004 1.9-2.1**	**TP18A ES 006 3.6-4.0**	**BH23 ES 001 0.5**	**BH23 ES 020 6.0**	**BH14 ES 002 0.5**	**BH14 ES 009 2.5**	**BH14 ES 026 7.0**
				Date Sampled	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**
				Depth	**0.7**	**2.1**	**4.0**	**0.5**	**6.0**	**0.5**	**2.5**	**7.0**
				Top Depth	**0.65**	**1.9**	**3.6**					
				Type	**Sandy Soil**	**Sandy Soil**	**Clay**	**Sandy Soil**	**Clay**	**Sandy Soil**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
Moisture @ 105 C	T162	AR	0.1	%	**16**	**20**	**22**	**9.8**	**29**	**14**	**25**	**25**
Moisture	T277	AR	0.1	%	**16**	**18**	**22**	**8.0**	**28**	**13**	**23**	**27**
Asbestos ID	T27	AR			N.D.	N.D.	-	N.D.	-	Chrysotile Detected -	-	-
pH	T7	AR			**8.3**	**7.8**	**8.1**	**7.9**	**8.5**	**7.6**	**7.5**	**8.4**
Mass Fraction of organic carbon	T286	M40			-	-	-	-	**0.011**	-	**0.010**	-
Arsenic	T6	M40	2	mg/kg	**11**	**19**	**10**	**16**	**9**	**34**	**9**	-
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	-
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	-
Chromium	T6	M40	1	mg/kg	**14**	**24**	**23**	**21**	**20**	**23**	**21**	-
Chromium (trivalent)	T85	AR	2	mg/kg	**14**	**24**	**23**	**21**	**20**	**23**	**21**	-
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	-
Copper	T6	M40	1	mg/kg	**21**	**27**	**14**	**63**	**12**	**81**	**13**	-
Lead	T6	M40	1	mg/kg	**53**	**69**	**15**	**530**	**14**	**330**	**17**	-
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	-
Nickel	T6	M40	1	mg/kg	**16**	**27**	**22**	**22**	**22**	**24**	**22**	-
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	-
Zinc	T6	M40	1	mg/kg	**51**	**80**	**62**	**160**	**57**	**240**	**64**	-
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	-
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	-
SO4(Total)	T6	M40	0.01	%	**0.11**	**0.11**	**0.14**	**0.15**	**0.70**	**0.23**	**0.49**	-
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	**0.03**	<0.01	**0.03**	<0.01	-
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.5**	<0.1	**0.2**	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.1**	<0.1	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**2.4**	<0.1	**0.8**	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**5.2**	<0.1	**2.4**	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**3.9**	<0.1	**1.6**	<0.1	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**3.2**	<0.1	**1.8**	<0.1	-
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**1.8**	<0.1	**0.9**	<0.1	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**4.0**	<0.1	**1.6**	<0.1	-
Chrysene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**5.8**	<0.1	**2.2**	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.5**	<0.1	**0.3**	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**9.0**	<0.1	**5.2**	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.5**	<0.1	**0.3**	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**2.0**	<0.1	**0.7**	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.3**	<0.1	**0.2**	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**6.9**	<0.1	**3.4**	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**7.4**	<0.1	**4.5**	<0.1	<0.1
PAH(total)	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**53**	<0.1	**23**	<0.1	<0.1
TPH (C8-C10)	T8	M105	1	mg/kg	<1	<1	<1	-	<1	<1	<1	-
TPH (C10-C12)	T206	M105	1	mg/kg	<1	<1	<1	-	<1	<1	<1	-
TPH (C12-C16)	T206	M105	1	mg/kg	**1**	<1	<1	-	<1	<1	<1	-
TPH (C16-C21)	T206	M105	1	mg/kg	**1**	<1	<1	-	**2**	<1	<1	-
TPH (C21-C35)	T206	M105	1	mg/kg	**2**	**1**	<1	-	**3**	**23**	<1	-
TPH (C35-C40)	T8	M105	1	mg/kg	<1	<1	<1	-	<1	**10**	<1	[9] <10
TPH (C8 - C40)	T85	M105	1	mg/kg	**4**	**1**	<1	-	**5**	**33**	<1	-
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	-	-	-	<0.100	-	-	-	-
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	-	-	-	-
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	-	-	-	-
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	-	-	-	<1	-	-	-	-
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	-	-	-	<2	-	-	-	-
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	-	-	-	**3**	-	-	-	-
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	-	-	-	**6**	-	-	-	-

SAL Reference: 349049
Project Site: A63 Castle St - 43
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**349049 044**	**349049 048**	**349049 050**	**349049 051**	**349049 058**	**349049 062**	**349049 066**	**349049 075**
				Customer Sample Reference	**TP18 ES 003 0.65-0.7**	**TP18A ES 004 1.9-2.1**	**TP18A ES 006 3.6-4.0**	**BH23 ES 001 0.5**	**BH23 ES 020 6.0**	**BH14 ES 002 0.5**	**BH14 ES 009 2.5**	**BH14 ES 026 7.0**
				Date Sampled	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**
				Depth	**0.7**	**2.1**	**4.0**	**0.5**	**6.0**	**0.5**	**2.5**	**7.0**
				Top Depth	**0.65**	**1.9**	**3.6**					
				Type	**Sandy Soil**	**Sandy Soil**	**Clay**	**Sandy Soil**	**Clay**	**Sandy Soil**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	-	-	-	<1	-	-	-	-
TPH (Aliphatic) total	T85	M105		mg/kg	-	-	-	**9.0**	-	-	-	-
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	-	-	-	-
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	-	-	-	-
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	-	-	-	-
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	-	-	-	<1	-	-	-	-
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	-	-	-	**1**	-	-	-	-
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	-	-	-	**4**	-	-	-	-
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	-	-	-	**13**	-	-	-	-
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	-	-	-	**1**	-	-	-	-
TPH (Aromatic) total	T85	M105		mg/kg	-	-	-	**19**	-	-	-	-
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	-	-	-	**28**	-	-	-	-
Benzene	T209	M105	0.010	mg/kg	-	-	-	<0.010	-	-	-	-
Toluene	T209	M105	0.010	mg/kg	-	-	-	<0.010	-	-	-	-
EthylBenzene	T209	M105	0.010	mg/kg	-	-	-	<0.010	-	-	-	-
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	-	-	-	<0.010	-	-	-	-
O Xylene	T209	M105	0.010	mg/kg	-	-	-	<0.010	-	-	-	-
M/P Xylene	T209	M105	0.010	mg/kg	-	-	-	<0.010	-	-	-	-
PCB BZ#101	T1	M105	0.00005	mg/kg	-	-	-	(9) <0.00050	<0.00005	-	-	(100) <0.00050
PCB BZ#118	T1	M105	0.00005	mg/kg	-	-	-	(9) <0.00050	<0.00005	-	-	(100) <0.00050
PCB BZ#138	T1	M105	0.00005	mg/kg	-	-	-	(9) <0.00050	<0.00005	-	-	(100) <0.00050
PCB BZ#153	T1	M105	0.00005	mg/kg	-	-	-	(9) <0.00050	<0.00005	-	-	(100) <0.00050
PCB BZ#180	T1	M105	0.00005	mg/kg	-	-	-	**0.00080**	<0.00005	-	-	(100) <0.00050
PCB BZ#28	T1	M105	0.00005	mg/kg	-	-	-	(9) <0.00050	<0.00005	-	-	(100) <0.00050
PCB BZ#52	T1	M105	0.00005	mg/kg	-	-	-	(9) <0.00050	<0.00005	-	-	(100) <0.00050

SAL Reference: 349049
Project Site: A63 Castle St - 43
Customer Reference: 112630

Soil Analysed as Soil

Volatile Organic Compounds (USEPA 624) (MCERTS)

				SAL Reference	**349049 017**	**349049 018**	**349049 025**	**349049 026**	**349049 028**	**349049 042**	**349049 051**
				Customer Sample Reference	**WS25 ES 002 1.83-2.0**	**WS25 ES 003 2.0-2.5**	**WS26 ES 003 1.2-1.5**	**WS26 ES 005 1.7-2.0**	**WS26 ES 006 2.0-2.5**	**TP18 ES 002 0.25-0.4**	**BH23 ES 001 0.5**
				Date Sampled	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**
				Depth	**2.0**	**2.5**	**1.5**	**2.0**	**2.5**	**0.4**	**0.5**
				Top Depth	**1.83**	**2.0**	**1.2**	**1.7**	**2.0**	**0.25**	
				Type	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-dibromoethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
2,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
2-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
4-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Bromobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromochloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromodichloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Carbon tetrachloride	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorodibromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Chloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromomethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Isopropyl benzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
M/P Xylene	T209	M105	0.010	mg/kg	<0.010	**0.038**	<0.010	<0.010	**0.027**	**0.055**	<0.010
n-Propylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
O Xylene	T209	M105	0.010	mg/kg	<0.010	**0.022**	<0.010	<0.010	**0.021**	**0.018**	<0.010
p-Isopropyltoluene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
S-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Styrene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
T-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	T209	M105	0.010	mg/kg	<0.010	<0.010	<0.010	<0.010	**0.027**	**0.018**	<0.010
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethene	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Trichlorofluoromethane	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl chloride	T209	M105	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

SAL Reference: 349049
Project Site: A63 Castle St - 43
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

				SAL Reference	**349049 017**	**349049 018**	**349049 025**	**349049 026**	**349049 028**	**349049 042**	**349049 051**
				Customer Sample Reference	**WS25 ES 002 1.83-2.0**	**WS25 ES 003 2.0-2.5**	**WS26 ES 003 1.2-1.5**	**WS26 ES 005 1.7-2.0**	**WS26 ES 006 2.0-2.5**	**TP18 ES 002 0.25-0.4**	**BH23 ES 001 0.5**
				Date Sampled	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**
				Depth	**2.0**	**2.5**	**1.5**	**2.0**	**2.5**	**0.4**	**0.5**
				Top Depth	**1.83**	**2.0**	**1.2**	**1.7**	**2.0**	**0.25**	
				Type	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	**0.2**	<0.1	<0.1	<0.1	<0.1	**0.1**	**0.2**
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**0.1**	<0.1
4-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	**0.3**	<0.1	<0.1	<0.1	<0.1	**0.5**
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.1**
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**0.2**	**2.4**
Azobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**0.7**	**5.2**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**0.5**	**3.9**
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**1.1**	**7.1**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**0.3**	**1.8**
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.2**
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbazole	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**0.7**	**5.8**
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.5**
Dibenzofuran	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.4**
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**0.4**	<0.1	<0.1	<0.1	**1.6**	**9.0**
Fluorene	T207	M105	0.1	mg/kg	<0.1	**0.3**	<0.1	<0.1	<0.1	<0.1	**0.5**
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**0.2**	**2.0**
Isophorone	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	**0.2**	**0.2**	<0.1	<0.1	<0.1	**0.1**	**0.3**
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 349049
Project Site: A63 Castle St - 43
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

SAL Reference					**349049 017**	**349049 018**	**349049 025**	**349049 026**	**349049 028**	**349049 042**	**349049 051**
Customer Sample Reference					**WS25 ES 002 1.83-2.0**	**WS25 ES 003 2.0-2.5**	**WS26 ES 003 1.2-1.5**	**WS26 ES 005 1.7-2.0**	**WS26 ES 006 2.0-2.5**	**TP18 ES 002 0.25-0.4**	**BH23 ES 001 0.5**
Date Sampled					**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**
Depth					**2.0**	**2.5**	**1.5**	**2.0**	**2.5**	**0.4**	**0.5**
Top Depth					**1.83**	**2.0**	**1.2**	**1.7**	**2.0**	**0.25**	
Type					**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Pentachlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**0.4**	<0.1	<0.1	<0.1	**0.7**	**6.9**
Phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.3**	<0.1	<0.1	<0.1	**1.5**	**7.4**

SAL Reference: 349049
Project Site: A63 Castle St - 43
Customer Reference: 112630

Leachate to BS EN 12457-2 (10:1) Analysed as Water
Grontmij A63 Hull Leachate Suite

				SAL Reference	**349049 017**	**349049 025**	**349049 028**	**349049 042**
				Customer Sample Reference	**WS25 ES 002 1.83 -2.0**	**WS26 ES 003 1.2-1.5**	**WS26 ES 006 2.0-2.5**	**TP18 ES 002 0.25-0.4**
				Date Sampled	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**	**03-SEP-2013**
				Depth	**2.0**	**1.5**	**2.5**	**0.4**
				Top Depth	**1.83**	**1.2**	**2.0**	**0.25**
				Type	**Clay**	**Clay**	**Clay**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
pH	T7	10:1			**8.5**	**8.1**	**8.2**	**8.4**
As (Dissolved)	T281	10:1	0.2	µg/l	**13**	**3.2**	**6.1**	**19**
Boron	T6	10:1	10	µg/l	**440**	**110**	**150**	**25**
Cd (Dissolved)	T281	10:1	0.02	µg/l	**0.04**	**0.02**	<0.02	<0.02
Cr (Dissolved)	T281	10:1	1	µg/l	**3**	**6**	**3**	**16**
Chromium (trivalent)	T85	10:1	3	µg/l	**3**	**6**	**3**	**16**
Chromium VI	T686	10:1	3	µg/l	**7**	<3	<3	**10**
Cu (Dissolved)	T281	10:1	0.5	µg/l	**0.8**	**4.5**	**1.3**	**9.1**
Pb (Dissolved)	T281	10:1	0.3	µg/l	**0.4**	<0.3	<0.3	**0.7**
Hg (Dissolved)	T281	10:1	0.05	µg/l	**0.17**	**0.17**	**0.16**	**0.17**
Ni (Dissolved)	T281	10:1	1	µg/l	<1	**1**	<1	<1
Se (Dissolved)	T281	10:1	0.5	µg/l	**1.1**	**1.1**	**0.9**	**1.2**
Zn (Dissolved)	T281	10:1	2	µg/l	**2**	**4**	**2**	**4**
Sulphate	T686	10:1	0.5	mg/l	**70**	**14**	<0.5	<0.5
Sulphide	T4	10:1	0.05	mg/l	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	10:1	0.01	mg/l	**24**	**4.7**	**1.6**	**0.71**
Total Phenols	T16	10:1	0.5	µg/l	<0.5	**0.9**	**12**	<0.5
Cyanide(Total)	T220	10:1	10	µg/l	<10	<10	<10	<10
Cyanide(free)	T220	10:1	10	µg/l	<10	<10	<10	<10
Acenaphthene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	**0.03**	**0.10**
Acenaphthylene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	(110) <0.02	(110) <0.02
Anthracene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	(110) <0.02	**0.12**
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	(110) <0.02	**0.87**
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10	**0.97**
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10	**0.94**
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10	**0.85**
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10	**0.96**
Chrysene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	(110) <0.02	**0.78**
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10	**0.40**
Fluoranthene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	(110) <0.02	**0.65**
Fluorene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	(110) <0.02	**0.09**
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10	**0.72**
Naphthalene	T149	10:1	0.01	µg/l	(100) <0.02	**0.02**	**0.26**	**0.24**
Phenanthrene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	**0.05**	**0.28**
Pyrene	T149	10:1	0.01	µg/l	(100) <0.02	(100) <0.02	(110) <0.02	**0.62**
PAH(total)	T149	10:1	0.01	µg/l	(110) <0.10	(110) <0.10	**0.34**	**8.6**
PAH (sum of 4)	T85	10:1		µg/l	(110) <0.10	(110) <0.10	(110) <0.10	**3.5**
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10	**1.9**
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	(110) <0.10	(110) <0.10	(110) <0.10	**1.6**
TPH (C8-C10) DW	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20	(100) <20
TPH (C10-C12) DW	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20	(100) <20
TPH (C12-C16) DW	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20	(100) <20
TPH (C16-C21) DW	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20	**50**
TPH (C21-C35) DW	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20	(100) <20
TPH (C35-C40)	T81	10:1	10	µg/l	(100) <20	(100) <20	(100) <20	(100) <20
TPH (C8 - C40)	T85	10:1	10	µg/l	(100) <20	(100) <20	(100) <20	(100) <20

Index to symbols used in 349049-1

Value	Description
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
8:1	Leachate to BS EN 12457-3 (8:1)

2:1	Leachate to BS EN 12457-3 (2:1)
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
10:1	Leachate to BS EN 12457-2 (10:1)
AR	As Received
N.D.	Not Detected
100	LOD determined by sample aliquot used for analysis
9	LOD raised due to dilution of sample
110	LOD raised due to low internal standard recovery.
W	Analysis was performed at another SAL laboratory
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T149	GC/MS (SIR)
T7	Probe
T209	GC/MS(Head Space)(MCERTS)
T546	Colorimetry (CF)
T206	GC/FID (MCERTS)
T27	PLM
T65	ICP/OES (Preconc.)
T4	Colorimetry
T162	Grav (1 Dec) (105 C)
T16	GC/MS
T286	Calc TOC/100
T1	GC/MS (HR)
T220	Colorimetry (SD)
T6	ICP/OES
T81	GC/FID (LV)
T281	ICP/MS (Filtered)
T207	GC/MS(MCERTS)
T277	Grav (1 Dec) (40 C)
T686	Discrete Analyser
T8	GC/FID
T85	Calc

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture @ 105 C	T162	AR	0.1	%	N	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066,075
Moisture	T277	AR	0.1	%	N	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066,075
Asbestos ID	T27	AR			SU	001,007-008,017-018,025-026,028,042-044,048,051,062
pH	T7	AR			M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066,075
Mass Fraction of organic carbon	T286	M40			N	004,012,021,035-036,058,066
Arsenic	T6	M40	2	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066
Boron (water-soluble)	T6	AR	1	mg/kg	N	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066
Cadmium	T6	M40	1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066
Chromium	T6	M40	1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066
Chromium (trivalent)	T85	AR	2	mg/kg	N	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066
Chromium VI	T6	AR	1	mg/kg	N	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066
Copper	T6	M40	1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066
Lead	T6	M40	1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066
Mercury	T6	M40	1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066
Nickel	T6	M40	1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066
Selenium	T6	M40	3	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066
Zinc	T6	M40	1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Cyanide(Total)	T546	AR	1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066
Cyanide(free)	T546	AR	1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066
SO4(Total)	T6	M40	0.01	%	N	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066
Total Phenols	T149	AR	0.01	mg/kg	U	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066
Acenaphthene	T207	M105	0.1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066,075
Acenaphthylene	T207	M105	0.1	mg/kg	U	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066,075
Anthracene	T207	M105	0.1	mg/kg	U	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066,075
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066,075
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066,075
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066,075
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066
Chrysene	T207	M105	0.1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066,075
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066,075
Fluoranthene	T207	M105	0.1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066,075
Fluorene	T207	M105	0.1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066,075
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066,075
Naphthalene	T207	M105	0.1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066,075
Phenanthrene	T207	M105	0.1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066,075
Pyrene	T207	M105	0.1	mg/kg	M	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066,075
PAH(total)	T207	M105	0.1	mg/kg	U	001,004,007-008,012,017-018,021,025-026,028,030,035-036,042,044,048,050-051,058,062,066,075
TPH (C8-C10)	T8	M105	1	mg/kg	N	001,004,007-008,012,035,044,048,050,058,062,066
TPH (C10-C12)	T206	M105	1	mg/kg	M	001,004,007-008,012,035,044,048,050,058,062,066
TPH (C12-C16)	T206	M105	1	mg/kg	M	001,004,007-008,012,035,044,048,050,058,062,066
TPH (C16-C21)	T206	M105	1	mg/kg	M	001,004,007-008,012,035,044,048,050,058,062,066
TPH (C21-C35)	T206	M105	1	mg/kg	M	001,004,007-008,012,035,044,048,050,058,062,066
TPH (C35-C40)	T8	M105	1	mg/kg	N	001,004,007-008,012,035,044,048,050,058,062,066,075
TPH (C8 - C40)	T85	M105	1	mg/kg	N	001,004,007-008,012,035,044,048,050,058,062,066
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	N	017-018,021,025-026,028,030,036,042,051
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	N	017-018,021,025-026,028,030,036,042,051
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	N	017-018,021,025-026,028,030,036,042,051
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	M	017-018,021,025-026,028,030,036,042,051
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	M	017-018,021,025-026,028,030,036,042,051
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	M	017-018,021,025-026,028,030,036,042,051
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	M	017-018,021,025-026,028,030,036,042,051
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	N	017-018,021,025-026,028,030,036,042,051
TPH (Aliphatic) total	T85	M105		mg/kg	N	017-018,021,025-026,028,030,036,042,051
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	N	017-018,021,025-026,028,030,036,042,051
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	N	017-018,021,025-026,028,030,036,042,051
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	N	017-018,021,025-026,028,030,036,042,051
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	M	017-018,021,025-026,028,030,036,042,051
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	M	017-018,021,025-026,028,030,036,042,051
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	M	017-018,021,025-026,028,030,036,042,051
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	M	017-018,021,025-026,028,030,036,042,051
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	N	017-018,021,025-026,028,030,036,042,051
TPH (Aromatic) total	T85	M105		mg/kg	N	017-018,021,025-026,028,030,036,042,051
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N	017-018,021,025-026,028,030,036,042,051
EthylBenzene	T209	M105	0.010	mg/kg	M	017-018,021,025-026,028,030,036,042,051
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	M	017-018,021,025-026,028,030,036,042,051
O Xylene	T209	M105	0.010	mg/kg	M	017-018,021,025-026,028,030,036,042,051
M/P Xylene	T209	M105	0.010	mg/kg	M	017-018,021,025-026,028,030,036,042,051
PCB BZ#101	T1	M105	0.00005	mg/kg	M	042,051,058,075
PCB BZ#118	T1	M105	0.00005	mg/kg	M	042,051,058,075
PCB BZ#138	T1	M105	0.00005	mg/kg	M	042,051,058,075
PCB BZ#153	T1	M105	0.00005	mg/kg	M	042,051,058,075
PCB BZ#180	T1	M105	0.00005	mg/kg	M	042,051,058,075
PCB BZ#28	T1	M105	0.00005	mg/kg	M	042,051,058,075

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
PCB BZ#52	T1	M105	0.00005	mg/kg	M	042,051,058,075
pH	T7	10:1			U	017,025,028,042
As (Dissolved)	T281	10:1	0.2	µg/l	U	017,025,028,042
Boron	T6	10:1	10	µg/l	N	017,025,028,042
Cd (Dissolved)	T281	10:1	0.02	µg/l	U	017,025,028,042
Cr (Dissolved)	T281	10:1	1	µg/l	U	017,025,028,042
Chromium (trivalent)	T85	10:1	3	µg/l	N	017,025,028,042
Chromium VI	T686	10:1	3	µg/l	U	017,025,028,042
Cu (Dissolved)	T281	10:1	0.5	µg/l	U	017,025,028,042
Pb (Dissolved)	T281	10:1	0.3	µg/l	U	017,025,028,042
Hg (Dissolved)	T281	10:1	0.05	µg/l	U	017,025,028,042
Ni (Dissolved)	T281	10:1	1	µg/l	U	017,025,028,042
Se (Dissolved)	T281	10:1	0.5	µg/l	U	017,025,028,042
Zn (Dissolved)	T281	10:1	2	µg/l	U	017,025,028,042
Sulphate	T686	10:1	0.5	mg/l	U	017,025,028,042
Sulphide	T4	10:1	0.05	mg/l	N	017,025,028,042
Sulphur (total)	T65	10:1	0.01	mg/l	N	017,025,028,042
Total Phenols	T16	10:1	0.5	µg/l	U	017,025,028,042
Cyanide(Total)	T220	10:1	10	µg/l	WU	017,025,028,042
Cyanide(free)	T220	10:1	10	µg/l	WN	017,025,028,042
Acenaphthene	T149	10:1	0.01	µg/l	U	017,025,028,042
Acenaphthylene	T149	10:1	0.01	µg/l	U	017,025,028,042
Anthracene	T149	10:1	0.01	µg/l	U	017,025,028,042
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	U	017,025,028,042
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	U	017,025,028,042
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	U	017,025,028,042
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	U	017,025,028,042
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	U	017,025,028,042
Chrysene	T149	10:1	0.01	µg/l	U	017,025,028,042
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	U	017,025,028,042
Fluoranthene	T149	10:1	0.01	µg/l	U	017,025,028,042
Fluorene	T149	10:1	0.01	µg/l	U	017,025,028,042
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	U	017,025,028,042
Naphthalene	T149	10:1	0.01	µg/l	U	017,025,028,042
Phenanthrene	T149	10:1	0.01	µg/l	U	017,025,028,042
Pyrene	T149	10:1	0.01	µg/l	U	017,025,028,042
PAH(total)	T149	10:1	0.01	µg/l	U	017,025,028,042
PAH (sum of 4)	T85	10:1		µg/l	N	017,025,028,042
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	U	017,025,028,042
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	N	017,025,028,042
TPH (C8-C10) DW	T81	10:1	10	µg/l	U	017,025,028,042
TPH (C10-C12) DW	T81	10:1	10	µg/l	U	017,025,028,042
TPH (C12-C16) DW	T81	10:1	10	µg/l	U	017,025,028,042
TPH (C16-C21) DW	T81	10:1	10	µg/l	U	017,025,028,042
TPH (C21-C35) DW	T81	10:1	10	µg/l	U	017,025,028,042
TPH (C35-C40)	T81	10:1	10	µg/l	N	017,025,028,042
TPH (C8 - C40)	T85	10:1	10	µg/l	N	017,025,028,042
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	017-018,025-026,028,042,051
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	017-018,025-026,028,042,051
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	017-018,025-026,028,042,051
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	017-018,025-026,028,042,051
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	U	017-018,025-026,028,042,051
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	017-018,025-026,028,042,051
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
2-Chlorophenol	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
2-methyl phenol	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
2-Nitroaniline	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
2-Nitrophenol	T207	M105	0.1	mg/kg	U	017-018,025-026,028,042,051
3-Nitroaniline	T207	M105	0.1	mg/kg	U	017-018,025-026,028,042,051
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
4-Chloroaniline	T207	M105	0.1	mg/kg	U	017-018,025-026,028,042,051
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
4-Nitroaniline	T207	M105	0.1	mg/kg	U	017-018,025-026,028,042,051
4-Nitrophenol	T207	M105	0.1	mg/kg	U	017-018,025-026,028,042,051
Azobenzene	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	017-018,025-026,028,042,051
Carbazole	T207	M105	0.1	mg/kg	U	017-018,025-026,028,042,051
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
Dibenzofuran	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
Diethyl phthalate	T207	M105	0.1	mg/kg	U	017-018,025-026,028,042,051
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	017-018,025-026,028,042,051
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	017-018,025-026,028,042,051
Hexachloroethane	T207	M105	0.1	mg/kg	U	017-018,025-026,028,042,051
Isophorone	T207	M105	0.1	mg/kg	U	017-018,025-026,028,042,051
Nitrobenzene	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
Pentachlorophenol	T207	M105	0.1	mg/kg	U	017-018,025-026,028,042,051
Phenol	T207	M105	0.1	mg/kg	M	017-018,025-026,028,042,051
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	U	017-018,025-026,028,042,051
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
1,1-Dichloroethane	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
1,1-Dichloropropene	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	U	017-018,025-026,028,042,051
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
1,2-dibromoethane	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
1,2-Dichloroethane	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
1,2-Dichloropropane	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
1,3-Dichloropropane	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
2,2-Dichloropropane	T209	M105	0.050	mg/kg	U	017-018,025-026,028,042,051
2-Chlorotoluene	T209	M105	0.050	mg/kg	U	017-018,025-026,028,042,051
4-Chlorotoluene	T209	M105	0.050	mg/kg	U	017-018,025-026,028,042,051
Benzene	T209	M105	0.010	mg/kg	M	017-018,021,025-026,028,030,036,042,051
Bromobenzene	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
Bromochloromethane	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
Bromodichloromethane	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
Bromoform	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
Bromomethane	T209	M105	0.050	mg/kg	U	017-018,025-026,028,042,051
Carbon tetrachloride	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
Chlorobenzene	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
Chlorodibromomethane	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
Chloroethane	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
Chloroform	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
Chloromethane	T209	M105	0.050	mg/kg	U	017-018,025-026,028,042,051
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
Dibromomethane	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
Dichloromethane	T209	M105	0.050	mg/kg	U	017-018,025-026,028,042,051
Isopropyl benzene	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
n-Propylbenzene	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
p-Isopropyltoluene	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
S-Butylbenzene	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
Styrene	T209	M105	0.050	mg/kg	U	017-018,025-026,028,042,051
T-Butylbenzene	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
Tetrachloroethene	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
Toluene	T209	M105	0.010	mg/kg	M	017-018,021,025-026,028,030,036,042,051
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Trichloroethene	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
Trichlorofluoromethane	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051
Vinyl chloride	T209	M105	0.050	mg/kg	M	017-018,025-026,028,042,051

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 349263-1

Date of Report: 19-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 44
Date Job Received at SAL: 06-Sep-2013
Date Analysis Started: 10-Sep-2013
Date Analysis Completed: 19-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

[redacted]

SAL Reference: 349263
Project Site: A63 Castle St - 44
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**349263 001**	**349263 007**	**349263 009**	**349263 010**
				Customer Sample Reference	**WS12 ES 001 1.5**	**WS11 ES 010 4.2**	**WS22 ES 002 1.0**	**SCPT32 ES 001 0.8**
				Date Sampled	**04-SEP-2013**	**04-SEP-2013**	**04-SEP-2013**	**04-SEP-2013**
				Top Depth	**1.5**	**4.2**	**1.0**	**0.8**
				Type	**Sandy Soil**	**Clay**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Moisture @ 105 C	T162	AR	0.1	%	**21**	**30**	**21**	**21**
Moisture	T277	AR	0.1	%	**19**	**29**	**20**	**22**
Asbestos ID	T27	AR			N.D.	-	N.D.	N.D.
pH	T7	AR			**8.2**	**7.9**	**7.8**	**8.4**
Mass Fraction of organic carbon	T286	M40			-	**0.0079**	-	-
Arsenic	T6	M40	2	mg/kg	**28**	**9**	**14**	**19**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**31**	**16**	**27**	**11**
Chromium (trivalent)	T85	AR	2	mg/kg	**31**	**16**	**27**	**11**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**98**	**11**	**45**	**160**
Lead	T6	M40	1	mg/kg	**880**	**15**	**190**	**420**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	**2**
Nickel	T6	M40	1	mg/kg	**10**	**18**	**24**	**17**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**240**	**54**	**130**	**110**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.33**	**0.85**	**0.14**	**0.25**
Total Phenols	T149	AR	0.01	mg/kg	**0.12**	<0.01	<0.01	**0.01**
Acenaphthene	T207	M105	0.1	mg/kg	**0.3**	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	**0.2**	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	**1.6**	<0.1	<0.1	**0.2**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**7.0**	<0.1	<0.1	**0.8**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**6.7**	<0.1	<0.1	**0.7**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**6.9**	<0.1	<0.1	**0.7**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**3.3**	<0.1	<0.1	**0.4**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**5.2**	<0.1	<0.1	**0.6**
Chrysene	T207	M105	0.1	mg/kg	**6.9**	<0.1	<0.1	**0.8**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	**0.8**	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**13**	<0.1	<0.1	**1.8**
Fluorene	T207	M105	0.1	mg/kg	**0.2**	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**3.0**	<0.1	<0.1	**0.3**
Naphthalene	T207	M105	0.1	mg/kg	**0.3**	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**3.2**	<0.1	<0.1	**0.7**
Pyrene	T207	M105	0.1	mg/kg	**13**	<0.1	<0.1	**1.7**
PAH(total)	T207	M105	0.1	mg/kg	**60**	<0.1	<0.1	**7.4**
TPH (C8-C10)	T8	M105	1	mg/kg	-	<1	<1	<1
TPH (C10-C12)	T206	M105	1	mg/kg	-	<1	<1	<1
TPH (C12-C16)	T206	M105	1	mg/kg	-	<1	<1	**4**
TPH (C16-C21)	T206	M105	1	mg/kg	-	<1	<1	**11**
TPH (C21-C35)	T206	M105	1	mg/kg	-	<1	<1	**25**
TPH (C35-C40)	T8	M105	1	mg/kg	-	<1	<1	**6**
TPH (C8 - C40)	T85	M105	1	mg/kg	-	<1	<1	**46**
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	<0.100	-	-	-
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	<0.10	-	-	-
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	<0.10	-	-	-
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	(9,100) <20	-	-	-
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	(9,100) <20	-	-	-
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	(9,100) <20	-	-	-
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	(9,100) <20	-	-	-
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	(9,100) <20	-	-	-
TPH (Aliphatic) total	T85	M105		mg/kg	(9,100) <20	-	-	-
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	<0.10	-	-	-

SAL Reference: 349263
Project Site: A63 Castle St - 44
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

	SAL Reference	349263 001	349263 007	349263 009	349263 010
	Customer Sample Reference	WS12 ES 001 1.5	WS11 ES 010 4.2	WS22 ES 002 1.0	SCPT32 ES 001 0.8
	Date Sampled	04-SEP-2013	04-SEP-2013	04-SEP-2013	04-SEP-2013
	Top Depth	1.5	4.2	1.0	0.8
	Type	Sandy Soil	Clay	Sandy Soil	Sandy Soil
Determinand	Method / Test Sample / LOD / Units				
TPH (C7-C8 aromatic)	T209 / M105 / 0.10 / mg/kg	<0.10	-	-	-
TPH (C8-C10 aromatic)	T209 / M105 / 0.10 / mg/kg	<0.10	-	-	-
TPH (C10-C12 aromatic)	T206 / M105 / 1 / mg/kg	(9,100) <20	-	-	-
TPH (C12-C16 aromatic)	T206 / M105 / 1 / mg/kg	(9,100) <20	-	-	-
TPH (C16-C21 aromatic)	T206 / M105 / 1 / mg/kg	**45**	-	-	-
TPH (C21-C35 aromatic)	T206 / M105 / 1 / mg/kg	**180**	-	-	-
TPH (C35-C44 aromatic)	T8 / M105 / 1 / mg/kg	**30**	-	-	-
TPH (Aromatic) total	T85 / M105 / / mg/kg	**260**	-	-	-
TPH (Aliphatic+Aromatic) (sum)	T85 / M105 / / mg/kg	**260**	-	-	-
Benzene	T209 / M105 / 0.010 / mg/kg	<0.010	-	-	-
Toluene	T209 / M105 / 0.010 / mg/kg	<0.010	-	-	-
EthylBenzene	T209 / M105 / 0.010 / mg/kg	<0.010	-	-	-
Methyl tert-Butyl Ether	T209 / M105 / 0.010 / mg/kg	<0.010	-	-	-
O Xylene	T209 / M105 / 0.010 / mg/kg	<0.010	-	-	-
M/P Xylene	T209 / M105 / 0.010 / mg/kg	<0.010	-	-	-

Index to symbols used in 349263-1

Value	Description
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
AR	As Received
N.D.	Not Detected
9	LOD raised due to dilution of sample
100	LOD determined by sample aliquot used for analysis
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T6	ICP/OES
T546	Colorimetry (CF)
T206	GC/FID (MCERTS)
T7	Probe
T162	Grav (1 Dec) (105 C)
T149	GC/MS (SIR)
T277	Grav (1 Dec) (40 C)
T286	Calc TOC/100
T8	GC/FID
T207	GC/MS(MCERTS)
T209	GC/MS(Head Space)(MCERTS)
T85	Calc
T27	PLM

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture @ 105 C	T162	AR	0.1	%	N	001,007,009-010
Moisture	T277	AR	0.1	%	N	001,007,009-010

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Asbestos ID	T27	AR			SU	001,009-010
pH	T7	AR			M	001,007,009-010
Mass Fraction of organic carbon	T286	M40			N	007
Arsenic	T6	M40	2	mg/kg	M	001,007,009-010
Boron (water-soluble)	T6	AR	1	mg/kg	N	001,007,009-010
Cadmium	T6	M40	1	mg/kg	M	001,007,009-010
Chromium	T6	M40	1	mg/kg	M	001,007,009-010
Chromium (trivalent)	T85	AR	2	mg/kg	N	001,007,009-010
Chromium VI	T6	AR	1	mg/kg	N	001,007,009-010
Copper	T6	M40	1	mg/kg	M	001,007,009-010
Lead	T6	M40	1	mg/kg	M	001,007,009-010
Mercury	T6	M40	1	mg/kg	M	001,007,009-010
Nickel	T6	M40	1	mg/kg	M	001,007,009-010
Selenium	T6	M40	3	mg/kg	M	001,007,009-010
Zinc	T6	M40	1	mg/kg	M	001,007,009-010
Cyanide(Total)	T546	AR	1	mg/kg	M	001,007,009-010
Cyanide(free)	T546	AR	1	mg/kg	M	001,007,009-010
SO4(Total)	T6	M40	0.01	%	N	001,007,009-010
Total Phenols	T149	AR	0.01	mg/kg	U	001,007,009-010
Acenaphthene	T207	M105	0.1	mg/kg	M	001,007,009-010
Acenaphthylene	T207	M105	0.1	mg/kg	U	001,007,009-010
Anthracene	T207	M105	0.1	mg/kg	U	001,007,009-010
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	001,007,009-010
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	001,007,009-010
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	001,007,009-010
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	001,007,009-010
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	001,007,009-010
Chrysene	T207	M105	0.1	mg/kg	M	001,007,009-010
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	001,007,009-010
Fluoranthene	T207	M105	0.1	mg/kg	M	001,007,009-010
Fluorene	T207	M105	0.1	mg/kg	M	001,007,009-010
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	001,007,009-010
Naphthalene	T207	M105	0.1	mg/kg	M	001,007,009-010
Phenanthrene	T207	M105	0.1	mg/kg	M	001,007,009-010
Pyrene	T207	M105	0.1	mg/kg	M	001,007,009-010
PAH(total)	T207	M105	0.1	mg/kg	U	001,007,009-010
TPH (C8-C10)	T8	M105	1	mg/kg	N	007,009-010
TPH (C10-C12)	T206	M105	1	mg/kg	M	007,009-010
TPH (C12-C16)	T206	M105	1	mg/kg	M	007,009-010
TPH (C16-C21)	T206	M105	1	mg/kg	M	007,009-010
TPH (C21-C35)	T206	M105	1	mg/kg	M	007,009-010
TPH (C35-C40)	T8	M105	1	mg/kg	N	007,009-010
TPH (C8 - C40)	T85	M105	1	mg/kg	N	007,009-010
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	N	001
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	N	001
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	N	001
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	M	001
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	M	001
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	M	001
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	M	001
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	N	001
TPH (Aliphatic) total	T85	M105		mg/kg	N	001
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	N	001
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	N	001
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	N	001
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	M	001
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	M	001
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	M	001
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	M	001
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	N	001
TPH (Aromatic) total	T85	M105		mg/kg	N	001
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N	001
Benzene	T209	M105	0.010	mg/kg	M	001
Toluene	T209	M105	0.010	mg/kg	M	001
EthylBenzene	T209	M105	0.010	mg/kg	M	001
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	M	001
O Xylene	T209	M105	0.010	mg/kg	M	001
M/P Xylene	T209	M105	0.010	mg/kg	M	001

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: Supplement to 350010-1

Date of Report: 14-Oct-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 45, 46, 47, 48
Date Job Received at SAL: 09-Sep-2013
Date Analysis Started: 17-Sep-2013
Date Analysis Completed: 26-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked and authorised by :
Mr Ross Walker
Customer Services Manager (Land)

Issued by :
Lianne Bromiley
Assistant Customer Servi
Manager

[redacted]

SAL Reference: 350010
Project Site: A63 Castle St - 45, 46, 47, 48
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**350010 004**	**350010 006**	**350010 009**	**350010 010**	**350010 013**	**350010 024**	**350010 025**	**350010 026**
				Customer Sample Reference	**BH41 ES 003 1.5**	**WS20 ES 001 0.25**	**WS20 ES 008 1.5**	**WS20 ES 011 3.2**	**BH41 ES 012 3.0**	**BH41 ES 031 8.5**	**BH41 ES 034 9.5**	**BH44 ES 002 1.5**
				Top Depth								
				Depth	**1.5**	**0.25**	**1.5**	**3.2**	**3.0**	**8.5**	**9.5**	**1.5**
				Date Sampled	**06-SEP-2013**	**06-SEP-2013**	**06-SEP-2013**	**06-SEP-2013**	**09-SEP-2013**	**09-SEP-2013**	**09-SEP-2013**	**09-SEP-2013**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
Moisture @ 105 C	T162	AR	0.1	%	**16**	**7.5**	**20**	**30**	**29**	**10**	**13**	**27**
Moisture	T277	AR	0.1	%	**16**	**7.0**	**17**	**29**	**25**	**10**	**14**	**31**
Asbestos ID	T27	AR			N.D.	Amosite Detected -	N.D.	-	Chrysotile Detected -	N.D.	Amosite Detected -	N.D.
pH	T7	AR			**8.8**	**7.9**	**8.2**	**8.1**	**8.0**	**10.1**	**9.7**	**7.7**
Mass Fraction of organic carbon	T286	M40			-	-	-	**0.0090**	-	-	-	-
Arsenic	T6	M40	2	mg/kg	**9**	**36**	**14**	**14**	**16**	**17**	**18**	**17**
Boron (water-soluble)	T6	AR	1	mg/kg	**1**	<1	<1	<1	<1	**1**	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**15**	**28**	**26**	**21**	**19**	**18**	**22**	**19**
Chromium (trivalent)	T85	AR	2	mg/kg	**15**	**28**	**26**	**21**	**19**	**18**	**22**	**19**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**19**	**86**	**25**	**18**	**28**	**110**	**170**	**68**
Lead	T6	M40	1	mg/kg	**40**	**210**	**68**	**14**	**180**	**130**	**330**	**170**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**17**	**49**	**27**	**23**	**15**	**17**	**26**	**22**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**81**	**110**	**200**	**62**	**120**	**300**	**510**	**94**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.35**	**0.27**	**0.23**	**0.20**	**0.44**	**0.66**	**0.39**	**1.8**
Total Phenols	T149	AR	0.01	mg/kg	**0.01**	**0.95**	<0.01	<0.01	<0.01	**28**	**0.92**	<0.01
Acenaphthene	T207	M105	0.1	mg/kg	**0.8**	**2.6**	<0.1	<0.1	<0.1	**18**	**13**	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1	<0.1	**0.2**	<0.1
Anthracene	T207	M105	0.1	mg/kg	**1.8**	**5.4**	<0.1	<0.1	**0.4**	**26**	**22**	**0.4**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**2.9**	**9.9**	**0.2**	<0.1	**0.8**	**26**	**19**	**0.8**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**2.0**	**7.3**	**0.2**	<0.1	**0.5**	**19**	**11**	**0.6**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	**1.7**	**6.9**	**0.2**	<0.1	**0.5**	**21**	**12**	**0.7**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	**0.9**	**2.8**	<0.1	<0.1	**0.2**	**7.2**	**4.0**	**0.4**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	**1.5**	**7.4**	**0.1**	<0.1	**0.5**	**15**	**11**	**0.5**
Chrysene	T207	M105	0.1	mg/kg	**2.4**	**9.6**	**0.2**	<0.1	**0.7**	**23**	**16**	**0.7**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	**0.2**	**0.8**	<0.1	<0.1	<0.1	**2.5**	**1.3**	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**7.3**	**24**	**0.5**	<0.1	**2.4**	**43**	**47**	**2.3**
Fluorene	T207	M105	0.1	mg/kg	**0.6**	**2.2**	<0.1	<0.1	<0.1	**21**	**15**	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	**0.8**	**3.0**	<0.1	<0.1	**0.2**	**7.6**	**3.6**	**0.3**
Naphthalene	T207	M105	0.1	mg/kg	**0.2**	**1.9**	<0.1	<0.1	<0.1	**59**	**71**	**0.2**
Phenanthrene	T207	M105	0.1	mg/kg	**5.0**	**16**	**0.3**	<0.1	**1.1**	**54**	**56**	**1.1**
Pyrene	T207	M105	0.1	mg/kg	**6.6**	**22**	**0.5**	<0.1	**2.0**	**37**	**42**	**2.0**
PAH(total)	T207	M105	0.1	mg/kg	**35**	**140**	**2.2**	<0.1	**9.3**	**380**	**340**	**10**
TPH (C8-C10)	T8	M105	1	mg/kg	(9) <10	(9) <10	-	<1	<1	-	(9) <10	(9) <10
TPH (C10-C12)	T206	M105	1	mg/kg	(9) <10	(9) <10	-	<1	<1	-	**170**	(9) <10
TPH (C12-C16)	T206	M105	1	mg/kg	**28**	**11**	-	<1	**10**	-	**230**	(9) <10
TPH (C16-C21)	T206	M105	1	mg/kg	**150**	**66**	-	<1	**71**	-	**530**	**15**
TPH (C21-C35)	T206	M105	1	mg/kg	**200**	**150**	-	<1	**150**	-	**1000**	**240**
TPH (C35-C40)	T8	M105	1	mg/kg	**43**	**40**	-	<1	**24**	-	**170**	**150**
TPH (C8 - C40)	T85	M105	1	mg/kg	**420**	**270**	-	<1	**260**	-	**2100**	**410**
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	-	-	<0.100	-	-	(100) <0.400	-	-
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	-	-	<0.10	-	-	(100) <4.0	-	-
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	-	-	<0.10	-	-	(100) <0.40	-	-
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	-	-	<1	-	-	**21**	-	-
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	-	-	<2	-	-	**23**	-	-
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	-	-	<1	-	-	**14**	-	-
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	-	-	**5**	-	-	**130**	-	-

SAL Reference: 350010
Project Site: A63 Castle St - 45, 46, 47, 48
Customer Reference: 112630

Soil Analysed as Soil
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				SAL Reference	**350010 004**	**350010 006**	**350010 009**	**350010 010**	**350010 013**	**350010 024**	**350010 025**	**350010 026**
				Customer Sample Reference	**BH41 ES 003 1.5**	**WS20 ES 001 0.25**	**WS20 ES 008 1.5**	**WS20 ES 011 3.2**	**BH41 ES 012 3.0**	**BH41 ES 031 8.5**	**BH41 ES 034 9.5**	**BH44 ES 002 1.5**
				Top Depth								
				Depth	**1.5**	**0.25**	**1.5**	**3.2**	**3.0**	**8.5**	**9.5**	**1.5**
				Date Sampled	**06-SEP-2013**	**06-SEP-2013**	**06-SEP-2013**	**06-SEP-2013**	**09-SEP-2013**	**09-SEP-2013**	**09-SEP-2013**	**09-SEP-2013**
				Type	**Clay**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	-	-	**6**	-	-	**36**	-	-
TPH (Aliphatic) total	T85	M105		mg/kg	-	-	**11**	-	-	**220**	-	-
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	-	-	<0.10	-	-	(100) <0.40	-	-
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	-	-	<0.10	-	-	(100) <0.40	-	-
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	-	-	<0.10	-	-	**0.90**	-	-
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	-	-	<1	-	-	**77**	-	-
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	-	-	<1	-	-	**270**	-	-
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	-	-	**1**	-	-	**1000**	-	-
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	-	-	**4**	-	-	**1700**	-	-
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	-	-	**1**	-	-	**204**	-	-
TPH (Aromatic) total	T85	M105		mg/kg	-	-	**6.0**	-	-	**3300**	-	-
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	-	-	**17**	-	-	**3500**	-	-
Benzene	T209	M105	0.010	mg/kg	-	-	<0.010	-	-	(100) <0.040	-	-
Toluene	T209	M105	0.010	mg/kg	-	-	<0.010	-	-	(100) <0.040	-	-
EthylBenzene	T209	M105	0.010	mg/kg	-	-	<0.010	-	-	(100) <0.040	-	-
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	-	-	<0.010	-	-	(100) <0.040	-	-
O Xylene	T209	M105	0.010	mg/kg	-	-	<0.010	-	-	**0.053**	-	-
M/P Xylene	T209	M105	0.010	mg/kg	-	-	<0.010	-	-	**0.055**	-	-
PCB BZ#101	T1	M105	0.00005	mg/kg	-	(9) <0.00050	<0.00005	-	<0.00005	-	-	-
PCB BZ#118	T1	M105	0.00005	mg/kg	-	(9) <0.00050	<0.00005	-	<0.00005	-	-	-
PCB BZ#138	T1	M105	0.00005	mg/kg	-	**0.00090**	<0.00005	-	<0.00005	-	-	-
PCB BZ#153	T1	M105	0.00005	mg/kg	-	**0.00060**	<0.00005	-	**0.00012**	-	-	-
PCB BZ#180	T1	M105	0.00005	mg/kg	-	**0.00060**	<0.00005	-	**0.00025**	-	-	-
PCB BZ#28	T1	M105	0.00005	mg/kg	-	(9) <0.00050	<0.00005	-	<0.00005	-	-	-
PCB BZ#52	T1	M105	0.00005	mg/kg	-	(9) <0.00050	<0.00005	-	<0.00005	-	-	-

SAL Reference: 350010
Project Site: A63 Castle St - 45, 46, 47, 48
Customer Reference: 112630

Soil Analysed as Soil
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				SAL Reference	**350010 028**	**350010 032**	**350010 043**	**350010 045**	**350010 046**	**350010 048**	**350010 050**	**350010 052**
				Customer Sample Reference	**BH44 ES 006 2.5**	**BH44 ES 014 4.5**	**SCPT24A ES 001 0.5**	**WS17 ES 002 1.0**	**WS16 ES 001 0.5**	**WS05 ES 001 0.5**	**WS14 ES 011 0.3**	**TP11 ES 001 0.4**
				Top Depth								
				Depth	**2.5**	**4.5**	**0.5**	**1.0**	**0.5**	**0.5**	**0.3**	**0.4**
				Date Sampled	**09-SEP-2013**	**09-SEP-2013**	**09-SEP-2013**	**09-SEP-2013**	**09-SEP-2013**	**09-SEP-2013**	**10-SEP-2013**	**Deviating**
				Type	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
Moisture @ 105 C	T162	AR	0.1	%	**29**	**26**	**10**	**13**	**16**	**16**	**18**	**11**
Moisture	T277	AR	0.1	%	**33**	**26**	**12**	**11**	**17**	**14**	**19**	**10**
Asbestos ID	T27	AR			-	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
pH	T7	AR			**7.7**	**7.8**	**7.7**	**8.0**	**7.7**	**8.3**	**7.9**	**7.6**
Mass Fraction of organic carbon	T286	M40			-	**0.016**	-	-	-	-	-	-
Arsenic	T6	M40	2	mg/kg	**16**	**11**	**97**	**10**	**22**	**10**	**19**	**97**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**28**	**19**	**1100**	**32**	**57**	**20**	**18**	**42**
Chromium (trivalent)	T85	AR	2	mg/kg	**28**	**19**	**1100**	**32**	**57**	**20**	**18**	**42**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**45**	**18**	**810**	**43**	**61**	**19**	**34**	**500**
Lead	T6	M40	1	mg/kg	**54**	**14**	**790**	**45**	**100**	**47**	**230**	**11000**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	**1**
Nickel	T6	M40	1	mg/kg	**29**	**21**	**2700**	**110**	**41**	**21**	**22**	**72**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**85**	**53**	**350**	**53**	**170**	**69**	**67**	**390**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**2.0**	**0.89**	**0.77**	**0.10**	**0.21**	**0.07**	**0.97**	**0.39**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01	**0.16**	<0.01	<0.01	<0.01	**0.01**	**0.18**
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	**1.9**	**0.2**	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**13**	**0.4**	<0.1	<0.1	<0.1	**0.4**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**25**	**0.8**	<0.1	<0.1	<0.1	**1.9**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**14**	**0.8**	<0.1	<0.1	<0.1	**1.4**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	**13**	**0.8**	<0.1	<0.1	<0.1	**1.6**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	**5.4**	**0.4**	<0.1	<0.1	<0.1	**0.8**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	**15**	**0.7**	<0.1	<0.1	<0.1	**1.4**
Chrysene	T207	M105	0.1	mg/kg	<0.1	<0.1	**22**	**0.9**	<0.1	<0.1	**0.1**	**1.6**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	**1.2**	<0.1	<0.1	<0.1	<0.1	**0.2**
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	**66**	**2.4**	**0.2**	<0.1	**0.2**	**3.6**
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	**2.3**	**0.2**	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**5.1**	**0.3**	<0.1	<0.1	<0.1	**0.7**
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.3**	**0.1**	<0.1	<0.1	<0.1	**2.0**
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**32**	**1.6**	**0.1**	<0.1	**0.2**	**2.3**
Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**60**	**2.1**	**0.2**	<0.1	**0.2**	**3.3**
PAH(total)	T207	M105	0.1	mg/kg	<0.1	<0.1	**280**	**10**	**0.5**	<0.1	**0.7**	**21**
TPH (C8-C10)	T8	M105	1	mg/kg	<1	<1	(9) <10	<1	<1	<1	<1	-
TPH (C10-C12)	T206	M105	1	mg/kg	<1	<1	(9) <10	<1	<1	<1	<1	-
TPH (C12-C16)	T206	M105	1	mg/kg	<1	<1	**17**	**4**	**2**	**2**	<1	-
TPH (C16-C21)	T206	M105	1	mg/kg	<1	<1	**330**	**19**	**10**	**11**	<1	-
TPH (C21-C35)	T206	M105	1	mg/kg	<1	<1	**1200**	**100**	**53**	**45**	**2**	-
TPH (C35-C40)	T8	M105	1	mg/kg	<1	<1	**280**	**16**	**13**	**19**	**2**	-
TPH (C8 - C40)	T85	M105	1	mg/kg	<1	<1	**1800**	**140**	**78**	**77**	**4**	-
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	-	-	-	-	-	-	-	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	-	-	-	-	-	-	-	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	-	-	-	-	-	-	-	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	-	-	-	-	-	-	-	**1**
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	-	-	-	-	-	-	-	**6**
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	-	-	-	-	-	-	-	**11**
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	-	-	-	-	-	-	-	**30**
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	-	-	-	-	-	-	-	**5**
TPH (Aliphatic) total	T85	M105		mg/kg	-	-	-	-	-	-	-	**53**

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				SAL Reference	**350010 028**	**350010 032**	**350010 043**	**350010 045**	**350010 046**	**350010 048**	**350010 050**	**350010 052**
				Customer Sample Reference	**BH44 ES 006 2.5**	**BH44 ES 014 4.5**	**SCPT24A ES 001 0.5**	**WS17 ES 002 1.0**	**WS16 ES 001 0.5**	**WS05 ES 001 0.5**	**WS14 ES 011 0.3**	**TP11 ES 001 0.4**
				Top Depth								
				Depth	**2.5**	**4.5**	**0.5**	**1.0**	**0.5**	**0.5**	**0.3**	**0.4**
				Date Sampled	**09-SEP-2013**	**09-SEP-2013**	**09-SEP-2013**	**09-SEP-2013**	**09-SEP-2013**	**09-SEP-2013**	**10-SEP-2013**	**Deviating**
				Type	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	-	-	-	-	-	-	-	<0.10
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	-	-	-	-	-	-	-	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	-	-	-	-	-	-	-	<0.10
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	-	-	-	-	-	-	-	**3**
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	-	-	-	-	-	-	-	**14**
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	-	-	-	-	-	-	-	**33**
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	-	-	-	-	-	-	-	**59**
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	-	-	-	-	-	-	-	**8**
TPH (Aromatic) total	T85	M105		mg/kg	-	-	-	-	-	-	-	**120**
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	-	-	-	-	-	-	-	**170**
Benzene	T209	M105	0.010	mg/kg	-	-	-	-	-	-	-	<0.010
Toluene	T209	M105	0.010	mg/kg	-	-	-	-	-	-	-	<0.010
EthylBenzene	T209	M105	0.010	mg/kg	-	-	-	-	-	-	-	<0.010
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	-	-	-	-	-	-	-	<0.010
O Xylene	T209	M105	0.010	mg/kg	-	-	-	-	-	-	-	<0.010
M/P Xylene	T209	M105	0.010	mg/kg	-	-	-	-	-	-	-	<0.010
PCB BZ#101	T1	M105	0.00005	mg/kg	<0.00005	-	-	-	-	-	-	-
PCB BZ#118	T1	M105	0.00005	mg/kg	<0.00005	-	-	-	-	-	-	-
PCB BZ#138	T1	M105	0.00005	mg/kg	<0.00005	-	-	-	-	-	-	-
PCB BZ#153	T1	M105	0.00005	mg/kg	<0.00005	-	-	-	-	-	-	-
PCB BZ#180	T1	M105	0.00005	mg/kg	<0.00005	-	-	-	-	-	-	-
PCB BZ#28	T1	M105	0.00005	mg/kg	<0.00005	-	-	-	-	-	-	-
PCB BZ#52	T1	M105	0.00005	mg/kg	<0.00005	-	-	-	-	-	-	-

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				SAL Reference	**350010 055**	**350010 057**	**350010 058**	**350010 059**	**350010 061**	**350010 064**	**350010 070**	**350010 071**
				Customer Sample Reference	**TP11 ES 004 1.6**	**TP11 ES 006 2.8**	**TP11 ES 007 4.15**	**BH41A ES 006 9.0**	**BH46 ES 001 0.5**	**BH46 ES 004 2.5**	**WS23 ES 001 0.25**	**WS13 ES 001 0.3**
				Top Depth								
				Depth	**1.6**	**2.8**	**4.15**	**9.0**	**0.5**	**2.5**	**0.25**	**0.3**
				Date Sampled	**10-SEP-2013**	**10-SEP-2013**	**10-SEP-2013**	**10-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**
				Type	**Clay**	**Clay**	**Clay**	**Clay**	**Sandy Soil**	**Clay**	**Clay**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
Moisture @ 105 C	T162	AR	0.1	%	**22**	**28**	**28**	**40**	**11**	**31**	**19**	**14**
Moisture	T277	AR	0.1	%	**22**	**29**	**30**	**39**	**12**	**31**	**16**	**12**
Asbestos ID	T27	AR			N.D.	-	-	-	Chrysotile Detected -	-	N.D.	N.D.
pH	T7	AR			**7.7**	**7.8**	**7.7**	**8.1**	**8.5**	**7.7**	**7.6**	**9.3**
Arsenic	T6	M40	2	mg/kg	**16**	**10**	**10**	**50**	**7**	**12**	**17**	**20**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	**2**	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**25**	**26**	**20**	**130**	**11**	**27**	**31**	**17**
Chromium (trivalent)	T85	AR	2	mg/kg	**25**	**26**	**20**	**130**	**11**	**27**	**31**	**17**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**37**	**20**	**17**	**110**	**22**	**21**	**46**	**72**
Lead	T6	M40	1	mg/kg	**640**	**18**	**13**	**210**	**110**	**19**	**190**	**190**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**29**	**26**	**20**	**60**	**13**	**27**	**27**	**19**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**95**	**66**	**52**	**400**	**99**	**73**	**160**	**80**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	**2**	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.41**	**0.68**	**0.86**	**0.96**	**0.15**	**0.84**	**0.21**	**0.24**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	**0.03**	<0.01	<0.01	<0.01	**0.20**
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	**0.4**	<0.1	<0.1	**2.7**
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	**1.0**	<0.1	**0.3**	**5.5**
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	**1.5**	<0.1	**0.6**	**8.0**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	**1.0**	<0.1	**0.4**	**7.2**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	**1.1**	<0.1	**0.4**	**6.7**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	**0.4**	<0.1	**0.1**	**2.8**
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	**1.0**	<0.1	**0.4**	**7.5**
Chrysene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.2**	**1.3**	<0.1	**0.6**	**8.2**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	**0.1**	<0.1	<0.1	**1.1**
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.8**	**4.1**	<0.1	**1.6**	**12**
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	**0.5**	<0.1	<0.1	**3.8**
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	**0.4**	<0.1	**0.1**	**3.2**
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.4**	**0.3**	<0.1	<0.1	**7.1**
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.5**	**3.3**	<0.1	**1.0**	**13**
Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**0.7**	**3.6**	<0.1	**1.3**	**11**
PAH(total)	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	**3.4**	**20**	<0.1	**6.8**	**100**
TPH (C8-C10)	T8	M105	1	mg/kg	-	-	<1	<1	-	<1	<1	-
TPH (C10-C12)	T206	M105	1	mg/kg	-	-	<1	**1**	-	**1**	<1	-
TPH (C12-C16)	T206	M105	1	mg/kg	-	-	<1	**3**	-	**2**	<1	-
TPH (C16-C21)	T206	M105	1	mg/kg	-	-	<1	**12**	-	<1	**9**	-
TPH (C21-C35)	T206	M105	1	mg/kg	-	-	<1	**36**	-	<1	**40**	-
TPH (C35-C40)	T8	M105	1	mg/kg	**4**	-	<1	**6**	-	<1	**10**	-
TPH (C8 - C40)	T85	M105	1	mg/kg	-	-	<1	**58**	-	**3**	**59**	-
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	<0.100	<0.100	-	-	<0.100	-	-	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	**2.9**	<0.10	-	-	<0.10	-	-	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	**60**	<0.10	-	-	<0.10	-	-	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	**180**	<1	-	-	<1	-	-	<1
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	**710**	<2	-	-	<2	-	-	<2
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	**660**	<1	-	-	<1	-	-	**1**
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	**180**	<4	-	-	<4	-	-	**4**
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	<1	<1	-	-	<1	-	-	<1

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				SAL Reference	**350010 055**	**350010 057**	**350010 058**	**350010 059**	**350010 061**	**350010 064**	**350010 070**	**350010 071**
				Customer Sample Reference	**TP11 ES 004 1.6**	**TP11 ES 006 2.8**	**TP11 ES 007 4.15**	**BH41A ES 006 9.0**	**BH46 ES 001 0.5**	**BH46 ES 004 2.5**	**WS23 ES 001 0.25**	**WS13 ES 001 0.3**
				Top Depth								
				Depth	**1.6**	**2.8**	**4.15**	**9.0**	**0.5**	**2.5**	**0.25**	**0.3**
				Date Sampled	**10-SEP-2013**	**10-SEP-2013**	**10-SEP-2013**	**10-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**
				Type	**Clay**	**Clay**	**Clay**	**Clay**	**Sandy Soil**	**Clay**	**Clay**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
TPH (Aliphatic) total	T85	M105		mg/kg	**1800**	N.D.	-	-	N.D.	-	-	**5.0**
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	-	-	<0.10	-	-	<0.10
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	<0.10	<0.10	-	-	<0.10	-	-	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	**0.33**	<0.10	-	-	<0.10	-	-	**0.24**
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	**6**	<1	-	-	<1	-	-	**8**
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	**60**	<1	-	-	<1	-	-	**30**
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	**89**	<1	-	-	**2**	-	-	**95**
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	**35**	<1	-	-	**5**	-	-	**140**
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	<1	<1	-	-	**1**	-	-	**20**
TPH (Aromatic) total	T85	M105		mg/kg	**190**	N.D.	-	-	**8.0**	-	-	**290**
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	**2000**	N.D.	-	-	**8.0**	-	-	**300**
Benzene	T209	M105	0.010	mg/kg	<0.010	<0.010	-	-	<0.010	-	-	<0.010
Toluene	T209	M105	0.010	mg/kg	<0.010	<0.010	-	-	<0.010	-	-	<0.010
EthylBenzene	T209	M105	0.010	mg/kg	**0.033**	<0.010	-	-	<0.010	-	-	<0.010
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	<0.010	<0.010	-	-	<0.010	-	-	<0.010
O Xylene	T209	M105	0.010	mg/kg	<0.010	<0.010	-	-	<0.010	-	-	**0.012**
M/P Xylene	T209	M105	0.010	mg/kg	<0.010	<0.010	-	-	<0.010	-	-	**0.022**
PCB BZ#101	T1	M105	0.00005	mg/kg	<0.00005	-	-	-	-	-	-	(9) <0.00050
PCB BZ#118	T1	M105	0.00005	mg/kg	<0.00005	-	-	-	-	-	-	(9) <0.00050
PCB BZ#138	T1	M105	0.00005	mg/kg	<0.00005	-	-	-	-	-	-	(9) <0.00050
PCB BZ#153	T1	M105	0.00005	mg/kg	<0.00005	-	-	-	-	-	-	(9) <0.00050
PCB BZ#180	T1	M105	0.00005	mg/kg	<0.00005	-	-	-	-	-	-	(9) <0.00050
PCB BZ#28	T1	M105	0.00005	mg/kg	<0.00005	-	-	-	-	-	-	(9) <0.00050
PCB BZ#52	T1	M105	0.00005	mg/kg	<0.00005	-	-	-	-	-	-	(9) <0.00050

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				SAL Reference	**350010 073**	**350010 077**	**350010 078**	**350010 081**	**350010 086**	**350010 088**	**350010 092**	**350010 095**
				Customer Sample Reference	**WS13 ES 004 1.7**	**TP16 ES 001 0.1-0.3**	**TP16 ES 002 0.6-0.9**	**TP16 ES 005 1.6-1.8**	**WS22 ES 003 4.5**	**WS21 ES 001 0.5**	**WS21 ES 009 3.5**	**TP14 ES 002 0.3-0.5**
				Top Depth		**0.1**	**0.6**	**1.6**				**0.3**
				Depth	**1.7**	**0.3**	**0.9**	**1.8**	**4.5**	**0.5**	**3.5**	**0.5**
				Date Sampled	**05-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**	**06-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Sandy Soil**	**Clay**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
Moisture @ 105 C	T162	AR	0.1	%	**21**	**7.0**	**22**	**29**	**30**	**14**	**27**	**22**
Moisture	T277	AR	0.1	%	**20**	**8.0**	**23**	**31**	**28**	**12**	**27**	**17**
Asbestos ID	T27	AR			-	N.D.	N.D.	N.D.	-	N.D.	-	N.D.
pH	T7	AR			**7.8**	**7.7**	**7.7**	**7.3**	**7.7**	**7.7**	**7.8**	**7.6**
Arsenic	T6	M40	2	mg/kg	**11**	**22**	**19**	**26**	**10**	**46**	**10**	**18**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**21**	**20**	**32**	**17**	**18**	**28**	**19**	**33**
Chromium (trivalent)	T85	AR	2	mg/kg	**21**	**20**	**32**	**17**	**18**	**28**	**19**	**33**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**19**	**80**	**31**	**170**	**16**	**1300**	**17**	**69**
Lead	T6	M40	1	mg/kg	**18**	**220**	**88**	**250**	**11**	**1100**	**12**	**130**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**21**	**22**	**32**	**29**	**19**	**41**	**20**	**31**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**60**	**190**	**110**	**140**	**53**	**920**	**57**	**130**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.12**	**0.13**	**0.15**	**0.51**	**0.84**	**0.40**	**1.1**	**0.33**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**0.1**	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1	**0.4**	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	**1.2**	<0.1	<0.1	<0.1	**1.3**	<0.1	**0.2**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	**1.0**	<0.1	<0.1	<0.1	**0.9**	<0.1	**0.1**
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**1.0**	<0.1	<0.1	<0.1	**0.9**	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**0.5**	<0.1	<0.1	<0.1	**0.4**	<0.1	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	**1.2**	<0.1	<0.1	<0.1	**0.8**	<0.1	**0.1**
Chrysene	T207	M105	0.1	mg/kg	<0.1	**1.0**	<0.1	<0.1	<0.1	**1.1**	<0.1	**0.2**
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	**0.1**	<0.1	<0.1	<0.1	**0.1**	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	**2.4**	**0.3**	<0.1	<0.1	**2.7**	<0.1	**0.4**
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	**0.1**	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**0.5**	<0.1	<0.1	<0.1	**0.4**	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1	**0.5**	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	**1.0**	**0.2**	<0.1	<0.1	**2.2**	<0.1	**0.2**
Pyrene	T207	M105	0.1	mg/kg	<0.1	**2.1**	**0.2**	<0.1	<0.1	**2.3**	<0.1	**0.4**
PAH(total)	T207	M105	0.1	mg/kg	<0.1	**12**	**0.7**	<0.1	<0.1	**14**	<0.1	**1.7**
TPH (C8-C10)	T8	M105	1	mg/kg	<1	<1	<1	-	<1	**1**	<1	-
TPH (C10-C12)	T206	M105	1	mg/kg	<1	**1**	<1	-	<1	**3**	<1	-
TPH (C12-C16)	T206	M105	1	mg/kg	<1	**5**	<1	-	<1	**13**	<1	-
TPH (C16-C21)	T206	M105	1	mg/kg	<1	**14**	<1	-	<1	**21**	<1	-
TPH (C21-C35)	T206	M105	1	mg/kg	<1	**46**	<1	-	<1	**74**	<1	-
TPH (C35-C40)	T8	M105	1	mg/kg	<1	**9**	<1	-	<1	**11**	<1	-
TPH (C8 - C40)	T85	M105	1	mg/kg	<1	**75**	<1	-	<1	**120**	<1	-
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	-	-	-	<0.100	-	-	-	<0.100
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	-	-	-	<0.10
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	-	-	-	<0.10
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	-	-	-	<1	-	-	-	<1
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	-	-	-	**4**	-	-	-	<2
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	-	-	-	**8**	-	-	-	**1**
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	-	-	-	<4	-	-	-	<4
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	-	-	-	<1	-	-	-	<1
TPH (Aliphatic) total	T85	M105		mg/kg	-	-	-	**12**	-	-	-	**1.0**

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				SAL Reference	**350010 073**	**350010 077**	**350010 078**	**350010 081**	**350010 086**	**350010 088**	**350010 092**	**350010 095**
				Customer Sample Reference	**WS13 ES 004 1.7**	**TP16 ES 001 0.1-0.3**	**TP16 ES 002 0.6-0.9**	**TP16 ES 005 1.6-1.8**	**WS22 ES 003 4.5**	**WS21 ES 001 0.5**	**WS21 ES 009 3.5**	**TP14 ES 002 0.3-0.5**
				Top Depth		**0.1**	**0.6**	**1.6**				**0.3**
				Depth	**1.7**	**0.3**	**0.9**	**1.8**	**4.5**	**0.5**	**3.5**	**0.5**
				Date Sampled	**05-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**	**06-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**
				Type	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Sandy Soil**	**Clay**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	-	-	-	<0.10
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	-	-	-	<0.10
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	-	-	-	<0.10	-	-	-	<0.10
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	-	-	-	<1	-	-	-	<1
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	-	-	-	<1	-	-	-	<1
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	-	-	-	**3**	-	-	-	**2**
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	-	-	-	**8**	-	-	-	**8**
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	-	-	-	**5**	-	-	-	**6**
TPH (Aromatic) total	T85	M105		mg/kg	-	-	-	**16**	-	-	-	**16**
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	-	-	-	**28**	-	-	-	**17**
Benzene	T209	M105	0.010	mg/kg	-	-	-	<0.010	-	-	-	<0.010
Toluene	T209	M105	0.010	mg/kg	-	-	-	<0.010	-	-	-	<0.010
EthylBenzene	T209	M105	0.010	mg/kg	-	-	-	<0.010	-	-	-	<0.010
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	-	-	-	<0.010	-	-	-	<0.010
O Xylene	T209	M105	0.010	mg/kg	-	-	-	<0.010	-	-	-	<0.010
M/P Xylene	T209	M105	0.010	mg/kg	-	-	-	<0.010	-	-	-	<0.010
PCB BZ#101	T1	M105	0.00005	mg/kg	-	-	-	<0.00005	-	-	-	(2) <0.00010
PCB BZ#118	T1	M105	0.00005	mg/kg	-	-	-	<0.00005	-	-	-	(2) <0.00010
PCB BZ#138	T1	M105	0.00005	mg/kg	-	-	-	<0.00005	-	-	-	(2) <0.00010
PCB BZ#153	T1	M105	0.00005	mg/kg	-	-	-	<0.00005	-	-	-	(2) <0.00010
PCB BZ#180	T1	M105	0.00005	mg/kg	-	-	-	<0.00005	-	-	-	(2) <0.00010
PCB BZ#28	T1	M105	0.00005	mg/kg	-	-	-	<0.00005	-	-	-	(2) <0.00010
PCB BZ#52	T1	M105	0.00005	mg/kg	-	-	-	<0.00005	-	-	-	(2) <0.00010

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				SAL Reference	**350010 097**	**350010 098**
				Customer Sample Reference	**TP14 ES 004 1.7-1.9**	**TP14 ES 005 2.6-2.8**
				Top Depth	**1.7**	**2.6**
				Depth	**1.9**	**2.8**
				Date Sampled	**05-SEP-2013**	**05-SEP-2013**
				Type	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Moisture @ 105 C	T162	AR	0.1	%	**24**	**30**
Moisture	T277	AR	0.1	%	**25**	**31**
Asbestos ID	T27	AR			N.D.	N.D.
pH	T7	AR			**7.7**	**7.7**
Arsenic	T6	M40	2	mg/kg	**75**	**25**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1
Chromium	T6	M40	1	mg/kg	**16**	**14**
Chromium (trivalent)	T85	AR	2	mg/kg	**16**	**14**
Chromium VI	T6	AR	1	mg/kg	<1	<1
Copper	T6	M40	1	mg/kg	**35**	**58**
Lead	T6	M40	1	mg/kg	**130**	**160**
Mercury	T6	M40	1	mg/kg	<1	<1
Nickel	T6	M40	1	mg/kg	**19**	**16**
Selenium	T6	M40	3	mg/kg	<3	<3
Zinc	T6	M40	1	mg/kg	**62**	**61**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1
SO4(Total)	T6	M40	0.01	%	**1.1**	**0.78**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	**0.01**
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1
PAH(total)	T207	M105	0.1	mg/kg	<0.1	<0.1
TPH (C8-C10)	T8	M105	1	mg/kg	<1	<1
TPH (C10-C12)	T206	M105	1	mg/kg	<1	<1
TPH (C12-C16)	T206	M105	1	mg/kg	<1	<1
TPH (C16-C21)	T206	M105	1	mg/kg	**1**	<1
TPH (C21-C35)	T206	M105	1	mg/kg	<1	<1
TPH (C35-C40)	T8	M105	1	mg/kg	<1	<1
TPH (C8 - C40)	T85	M105	1	mg/kg	**1**	<1

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Customer Reference: 112630

Soil Analysed as Soil

Volatile Organic Compounds (USEPA 624) (MCERTS)

				SAL Reference	**350010 009**	**350010 024**	**350010 055**	**350010 057**	**350010 071**	**350010 081**	**350010 095**
				Customer Sample Reference	**WS20 ES 008 1.5**	**BH41 ES 031 8.5**	**TP11 ES 004 1.6**	**TP11 ES 006 2.8**	**WS13 ES 001 0.3**	**TP16 ES 005 1.6-1.8**	**TP14 ES 002 0.3-0.5**
				Top Depth						**1.6**	**0.3**
				Depth	**1.5**	**8.5**	**1.6**	**2.8**	**0.3**	**1.8**	**0.5**
				Date Sampled	**06-SEP-2013**	**09-SEP-2013**	**10-SEP-2013**	**10-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**
				Type	**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
1,1-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	**0.27**	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-dibromoethane	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloroethane	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
1,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
1,3-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
2,2-Dichloropropane	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
2-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
4-Chlorotoluene	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
Benzene	T209	M105	0.010	mg/kg	<0.010	(100) <0.040	<0.010	<0.010	<0.010	<0.010	<0.010
Bromobenzene	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
Bromochloromethane	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
Bromodichloromethane	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
Bromoform	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
Bromomethane	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
Carbon tetrachloride	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorobenzene	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
Chlorodibromomethane	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroethane	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
Chloroform	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
Chloromethane	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
Dibromomethane	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
Dichloromethane	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	(100) <0.040	**0.033**	<0.010	<0.010	<0.010	<0.010
Isopropyl benzene	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
M/P Xylene	T209	M105	0.010	mg/kg	<0.010	**0.055**	<0.010	<0.010	**0.022**	<0.010	<0.010
n-Propylbenzene	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	**0.066**	<0.050	<0.050	<0.050	<0.050
O Xylene	T209	M105	0.010	mg/kg	<0.010	**0.053**	<0.010	<0.010	**0.012**	<0.010	<0.010
p-Isopropyltoluene	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
S-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	**0.16**	<0.050	<0.050	<0.050	<0.050
Styrene	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
T-Butylbenzene	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
Tetrachloroethene	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	T209	M105	0.010	mg/kg	<0.010	(100) <0.040	<0.010	<0.010	<0.010	<0.010	<0.010
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
Trichloroethene	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
Trichlorofluoromethane	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050
Vinyl chloride	T209	M105	0.050	mg/kg	<0.050	(100) <0.20	<0.050	<0.050	<0.050	<0.050	<0.050

SAL Reference: 350010
Project Site: A63 Castle St - 45, 46, 47, 48
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

				SAL Reference	**350010 009**	**350010 024**	**350010 055**	**350010 057**	**350010 071**	**350010 081**	**350010 095**
				Customer Sample Reference	**WS20 ES 008 1.5**	**BH41 ES 031 8.5**	**TP11 ES 004 1.6**	**TP11 ES 006 2.8**	**WS13 ES 001 0.3**	**TP16 ES 005 1.6-1.8**	**TP14 ES 002 0.3-0.5**
				Top Depth						**1.6**	**0.3**
				Depth	**1.5**	**8.5**	**1.6**	**2.8**	**0.3**	**1.8**	**0.5**
				Date Sampled	**06-SEP-2013**	**09-SEP-2013**	**10-SEP-2013**	**10-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**
				Type	**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	<0.1	**0.3**	<0.1	<0.1	**0.1**	<0.1	<0.1
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Chloronaphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Chlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-methyl phenol	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1
2-Methylnaphthalene	T207	M105	0.1	mg/kg	<0.1	**20**	<0.1	<0.1	**2.9**	<0.1	<0.1
2-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
3/4-Methylphenol	T207	M105	0.1	mg/kg	<0.1	**0.2**	<0.1	<0.1	**0.2**	<0.1	<0.1
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Chloroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Nitroaniline	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
4-Nitrophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	**18**	<0.1	<0.1	**2.7**	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	**26**	<0.1	<0.1	**5.5**	<0.1	<0.1
Azobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	**0.2**	**26**	<0.1	<0.1	**8.0**	<0.1	**0.2**
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	**0.2**	**19**	<0.1	<0.1	**7.2**	<0.1	**0.1**
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	**0.3**	**36**	<0.1	<0.1	**14**	<0.1	**0.2**
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	**7.2**	<0.1	<0.1	**2.8**	<0.1	<0.1
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	<0.1	**0.3**	<0.1	<0.1	**0.2**	<0.1	<0.1
Butyl benzylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Carbazole	T207	M105	0.1	mg/kg	<0.1	**15**	<0.1	<0.1	**3.7**	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	**0.2**	**23**	<0.1	<0.1	**8.2**	<0.1	**0.2**
Di-n-butylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Di-n-octylphthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	**2.5**	<0.1	<0.1	**1.1**	<0.1	<0.1
Dibenzofuran	T207	M105	0.1	mg/kg	<0.1	**19**	<0.1	<0.1	**3.8**	<0.1	<0.1
Diethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dimethyl phthalate	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	**0.5**	**43**	<0.1	<0.1	**12**	<0.1	**0.4**
Fluorene	T207	M105	0.1	mg/kg	<0.1	**21**	<0.1	<0.1	**3.8**	<0.1	<0.1
Hexachlorobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorobutadiene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hexachloroethane	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	**7.6**	<0.1	<0.1	**3.2**	<0.1	<0.1
Isophorone	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	**59**	<0.1	<0.1	**7.1**	<0.1	<0.1
Nitrobenzene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 350010
Project Site: A63 Castle St - 45, 46, 47, 48
Customer Reference: 112630

Soil Analysed as Soil

Semi-Volatile Organic Compounds (USEPA 625)

SAL Reference					**350010 009**	**350010 024**	**350010 055**	**350010 057**	**350010 071**	**350010 081**	**350010 095**
Customer Sample Reference					**WS20 ES 008 1.5**	**BH41 ES 031 8.5**	**TP11 ES 004 1.6**	**TP11 ES 006 2.8**	**WS13 ES 001 0.3**	**TP16 ES 005 1.6-1.8**	**TP14 ES 002 0.3-0.5**
Top Depth										**1.6**	**0.3**
Depth					**1.5**	**8.5**	**1.6**	**2.8**	**0.3**	**1.8**	**0.5**
Date Sampled					**06-SEP-2013**	**09-SEP-2013**	**10-SEP-2013**	**10-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**
Type					**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Pentachlorophenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	**0.3**	**54**	<0.1	<0.1	**13**	<0.1	**0.2**
Phenol	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	**0.5**	**37**	<0.1	<0.1	**11**	<0.1	**0.4**

SAL Reference: 350010
Project Site: A63 Castle St - 45, 46, 47, 48
Customer Reference: 112630

Leachate to BS EN 12457-2 (10:1), Leachate to BS EN 12457-3 (8:1), Leachate to BS EN 12457-3 (2:1) Analysed as Water

Grontmij A63 Hull Leachate Suite

SAL Reference	**350010 055**
Customer Sample Reference	**TP11 ES 004 1.6**
Depth	**1.6**
Date Sampled	**10-SEP-2013**
Type	**Clay**

Determinand	Method	Test Sample	LOD	Units	
pH	T7	10:1			**8.2**
As (Dissolved)	T281	8:1	0.2	µg/l	**2.1**
As (Dissolved)	T281	2:1	0.2	µg/l	**7.6**
As (Dissolved)	T281	10:1	0.2	µg/l	**2.3**
Boron	T6	10:1	10	µg/l	**81**
Cd (Dissolved)	T281	8:1	0.02	µg/l	**0.02**
Cd (Dissolved)	T281	2:1	0.02	µg/l	**0.05**
Cd (Dissolved)	T281	10:1	0.02	µg/l	**0.07**
Cr (Dissolved)	T281	8:1	1	µg/l	**5**
Cr (Dissolved)	T281	2:1	1	µg/l	**10**
Cr (Dissolved)	T281	10:1	1	µg/l	**4**
Chromium (trivalent)	T85	10:1	3	µg/l	**4**
Chromium VI	T686	10:1	3	µg/l	<3
Cu (Dissolved)	T281	8:1	0.5	µg/l	**0.9**
Cu (Dissolved)	T281	2:1	0.5	µg/l	**2.5**
Cu (Dissolved)	T281	10:1	0.5	µg/l	**1.0**
Pb (Dissolved)	T281	8:1	0.3	µg/l	**0.5**
Pb (Dissolved)	T281	2:1	0.3	µg/l	**1.3**
Pb (Dissolved)	T281	10:1	0.3	µg/l	<0.3
Hg (Dissolved)	T281	8:1	0.05	µg/l	<0.05
Hg (Dissolved)	T281	2:1	0.05	µg/l	<0.05
Hg (Dissolved)	T281	10:1	0.05	µg/l	<0.05
Ni (Dissolved)	T281	8:1	1	µg/l	**2**
Ni (Dissolved)	T281	2:1	1	µg/l	**1**
Ni (Dissolved)	T281	10:1	1	µg/l	**2**
Se (Dissolved)	T281	8:1	0.5	µg/l	**1.0**
Se (Dissolved)	T281	2:1	0.5	µg/l	**2.3**
Se (Dissolved)	T281	10:1	0.5	µg/l	**0.6**
Zn (Dissolved)	T281	8:1	2	µg/l	**4**
Zn (Dissolved)	T281	2:1	2	µg/l	**3**
Zn (Dissolved)	T281	10:1	2	µg/l	<2
Sulphate	T686	10:1	0.5	mg/l	**7.7**
Sulphate	T686	2:1	0.5	mg/l	**24**
Sulphate	T686	8:1	0.5	mg/l	**31**
Sulphide	T4	10:1	0.05	mg/l	<0.05
Sulphur (total)	T65	10:1	0.01	mg/l	<0.01
Total Phenols	T16	10:1	0.5	µg/l	<0.5
Cyanide(Total)	T220	10:1	10	µg/l	<10
Cyanide(free)	T220	10:1	10	µg/l	<10
Acenaphthene	T149	10:1	0.01	µg/l	**0.36**
Acenaphthylene	T149	10:1	0.01	µg/l	**0.16**
Anthracene	T149	10:1	0.01	µg/l	**0.58**
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	**0.21**
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	**0.17**
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	**0.21**
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	**0.18**
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	**0.18**
Chrysene	T149	10:1	0.01	µg/l	**0.31**
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	**0.20**
Fluoranthene	T149	10:1	0.01	µg/l	**0.43**
Fluorene	T149	10:1	0.01	µg/l	**0.54**
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	**0.18**
Naphthalene	T149	10:1	0.01	µg/l	**0.50**

SAL Reference:	350010
Project Site:	A63 Castle St - 45, 46, 47, 48
Customer Reference:	112630
Leachate to BS EN 12457-2 (10:1), Leachate to BS EN 12457-3 (8:1), Leachate to BS EN 12457-3 (2:1)	Analysed as Water
Grontmij A63 Hull Leachate Suite	

SAL Reference	**350010 055**
Customer Sample Reference	**TP11 ES 004 1.6**
Depth	**1.6**
Date Sampled	**10-SEP-2013**
Type	**Clay**

Determinand	Method	Test Sample	LOD	Units	
Phenanthrene	T149	10:1	0.01	µg/l	**0.76**
Pyrene	T149	10:1	0.01	µg/l	**0.66**
PAH(total)	T149	10:1	0.01	µg/l	**5.9**
PAH (sum of 4)	T85	10:1		µg/l	**0.75**
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	**0.39**
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	**0.36**
TPH (C8-C10) DW	T81	10:1	10	µg/l	<10
TPH (C10-C12) DW	T81	10:1	10	µg/l	**150**
TPH (C12-C16) DW	T81	10:1	10	µg/l	**110**
TPH (C16-C21) DW	T81	10:1	10	µg/l	**120**
TPH (C21-C35) DW	T81	10:1	10	µg/l	**75**
TPH (C35-C40)	T81	10:1	10	µg/l	<10
TPH (C8 - C40)	T85	10:1	10	µg/l	**450**

Index to symbols used in Supplement to 350010-1

Value	Description
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
2:1	Leachate to BS EN 12457-3 (2:1)
10:1	Leachate to BS EN 12457-2 (10:1)
AR	As Received
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
8:1	Leachate to BS EN 12457-3 (8:1)
N.D.	Not Detected
2	LOD Raised Due to Matrix Interference
100	LOD determined by sample aliquot used for analysis
9	LOD raised due to dilution of sample
W	Analysis was performed at another SAL laboratory
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Supplemental report issued in response to customer query of high results for Benzo(b)fluoranthene, Benzo(k)fluroanthene and Benzo(a)pyrene in sample WS17 ES 002 1.0 (SAL Ref: 350010 045). Corrected results have been reported in this supplement.

Method Index

Value	Description
T162	Grav (1 Dec) (105 C)
T281	ICP/MS (Filtered)
T8	GC/FID
T65	ICP/OES (Preconc.)
T6	ICP/OES
T85	Calc
T277	Grav (1 Dec) (40 C)
T546	Colorimetry (CF)
T686	Discrete Analyser
T7	Probe

T16	GC/MS
T286	Calc TOC/100
T209	GC/MS(Head Space)(MCERTS)
T220	Colorimetry (SD)
T27	PLM
T4	Colorimetry
T207	GC/MS(MCERTS)
T206	GC/FID (MCERTS)
T149	GC/MS (SIR)
T81	GC/FID (LV)
T1	GC/MS (HR)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture @ 105 C	T162	AR	0.1	%	N	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Moisture	T277	AR	0.1	%	N	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Asbestos ID	T27	AR			SU	004,006,009,013,024-026,043,045-046,048,050,052,055,061,070-071,077-078,081,088,095,097-098
pH	T7	AR			M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Mass Fraction of organic carbon	T286	M40			N	010,032
Arsenic	T6	M40	2	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Boron (water-soluble)	T6	AR	1	mg/kg	N	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Cadmium	T6	M40	1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Chromium	T6	M40	1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Chromium (trivalent)	T85	AR	2	mg/kg	N	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Chromium VI	T6	AR	1	mg/kg	N	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Copper	T6	M40	1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Lead	T6	M40	1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Mercury	T6	M40	1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Nickel	T6	M40	1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Selenium	T6	M40	3	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Zinc	T6	M40	1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Cyanide(Total)	T546	AR	1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Cyanide(free)	T546	AR	1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
SO4(Total)	T6	M40	0.01	%	N	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Total Phenols	T149	AR	0.01	mg/kg	U	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Acenaphthene	T207	M105	0.1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Acenaphthylene	T207	M105	0.1	mg/kg	U	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Anthracene	T207	M105	0.1	mg/kg	U	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Chrysene	T207	M105	0.1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Fluoranthene	T207	M105	0.1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Fluorene	T207	M105	0.1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Naphthalene	T207	M105	0.1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Phenanthrene	T207	M105	0.1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
Pyrene	T207	M105	0.1	mg/kg	M	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
PAH(total)	T207	M105	0.1	mg/kg	U	004,006,009-010,013,024-026,028,032,043,045-046,048,050,052,055,057-059,061,064,070-071,073,077-078,081,086,088,092,095,097-098
TPH (C8-C10)	T8	M105	1	mg/kg	N	004,006,010,013,025-026,028,032,043,045-046,048,050,058-059,064,070,073,077-078,086,088,092,097-098
TPH (C10-C12)	T206	M105	1	mg/kg	M	004,006,010,013,025-026,028,032,043,045-046,048,050,058-059,064,070,073,077-078,086,088,092,097-098
TPH (C12-C16)	T206	M105	1	mg/kg	M	004,006,010,013,025-026,028,032,043,045-046,048,050,058-059,064,070,073,077-078,086,088,092,097-098
TPH (C16-C21)	T206	M105	1	mg/kg	M	004,006,010,013,025-026,028,032,043,045-046,048,050,058-059,064,070,073,077-078,086,088,092,097-098
TPH (C21-C35)	T206	M105	1	mg/kg	M	004,006,010,013,025-026,028,032,043,045-046,048,050,058-059,064,070,073,077-078,086,088,092,097-098
TPH (C35-C40)	T8	M105	1	mg/kg	N	004,006,010,013,025-026,028,032,043,045-046,048,050,055,058-059,064,070,073,077-078,086,088,092,097-098
TPH (C8 - C40)	T85	M105	1	mg/kg	N	004,006,010,013,025-026,028,032,043,045-046,048,050,058-059,064,070,073,077-078,086,088,092,097-098
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	N	009,024,052,055,057,061,071,081,095
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	N	009,024,052,055,057,061,071,081,095
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	N	009,024,052,055,057,061,071,081,095
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	M	009,024,052,055,057,061,071,081,095
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	M	009,024,052,055,057,061,071,081,095
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	M	009,024,052,055,057,061,071,081,095
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	M	009,024,052,055,057,061,071,081,095
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	N	009,024,052,055,057,061,071,081,095
TPH (Aliphatic) total	T85	M105		mg/kg	N	009,024,052,055,057,061,071,081,095
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	N	009,024,052,055,057,061,071,081,095
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	N	009,024,052,055,057,061,071,081,095
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	N	009,024,052,055,057,061,071,081,095
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	M	009,024,052,055,057,061,071,081,095
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	M	009,024,052,055,057,061,071,081,095
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	M	009,024,052,055,057,061,071,081,095
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	M	009,024,052,055,057,061,071,081,095
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	N	009,024,052,055,057,061,071,081,095
TPH (Aromatic) total	T85	M105		mg/kg	N	009,024,052,055,057,061,071,081,095
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N	009,024,052,055,057,061,071,081,095
Benzene	T209	M105	0.010	mg/kg	M	009,024,052,055,057,061,071,081,095
Toluene	T209	M105	0.010	mg/kg	M	009,024,052,055,057,061,071,081,095
EthylBenzene	T209	M105	0.010	mg/kg	M	009,024,052,055,057,061,071,081,095
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	M	009,024,052,055,057,061,071,081,095
O Xylene	T209	M105	0.010	mg/kg	M	009,024,052,055,057,061,071,081,095
PCB BZ#101	T1	M105	0.00005	mg/kg	M	006,009,013,028,055,071,081,095
PCB BZ#118	T1	M105	0.00005	mg/kg	M	006,009,013,028,055,071,081,095
PCB BZ#138	T1	M105	0.00005	mg/kg	M	006,009,013,028,055,071,081,095
PCB BZ#153	T1	M105	0.00005	mg/kg	M	006,009,013,028,055,071,081,095
PCB BZ#180	T1	M105	0.00005	mg/kg	M	006,009,013,028,055,071,081,095
PCB BZ#28	T1	M105	0.00005	mg/kg	M	006,009,013,028,055,071,081,095
PCB BZ#52	T1	M105	0.00005	mg/kg	M	006,009,013,028,055,071,081,095
pH	T7	10:1			U	055
As (Dissolved)	T281	8:1	0.2	µg/l	U	055
As (Dissolved)	T281	2:1	0.2	µg/l	U	055
As (Dissolved)	T281	10:1	0.2	µg/l	U	055
Boron	T6	10:1	10	µg/l	N	055
Cd (Dissolved)	T281	8:1	0.02	µg/l	U	055
Cd (Dissolved)	T281	2:1	0.02	µg/l	U	055
Cd (Dissolved)	T281	10:1	0.02	µg/l	U	055
Cr (Dissolved)	T281	8:1	1	µg/l	U	055
Cr (Dissolved)	T281	2:1	1	µg/l	U	055
Cr (Dissolved)	T281	10:1	1	µg/l	U	055
Chromium (trivalent)	T85	10:1	3	µg/l	N	055
Chromium VI	T686	10:1	3	µg/l	U	055
Cu (Dissolved)	T281	8:1	0.5	µg/l	U	055
Cu (Dissolved)	T281	2:1	0.5	µg/l	U	055
Cu (Dissolved)	T281	10:1	0.5	µg/l	U	055
Pb (Dissolved)	T281	8:1	0.3	µg/l	U	055
Pb (Dissolved)	T281	2:1	0.3	µg/l	U	055
Pb (Dissolved)	T281	10:1	0.3	µg/l	U	055
Hg (Dissolved)	T281	8:1	0.05	µg/l	U	055
Hg (Dissolved)	T281	2:1	0.05	µg/l	U	055

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Hg (Dissolved)	T281	10:1	0.05	µg/l	U	055
Ni (Dissolved)	T281	8:1	1	µg/l	U	055
Ni (Dissolved)	T281	2:1	1	µg/l	U	055
Ni (Dissolved)	T281	10:1	1	µg/l	U	055
Se (Dissolved)	T281	8:1	0.5	µg/l	U	055
Se (Dissolved)	T281	2:1	0.5	µg/l	U	055
Se (Dissolved)	T281	10:1	0.5	µg/l	U	055
Zn (Dissolved)	T281	8:1	2	µg/l	U	055
Zn (Dissolved)	T281	2:1	2	µg/l	U	055
Zn (Dissolved)	T281	10:1	2	µg/l	U	055
Sulphate	T686	10:1	0.5	mg/l	U	055
Sulphate	T686	2:1	0.5	mg/l	U	055
Sulphate	T686	8:1	0.5	mg/l	U	055
Sulphide	T4	10:1	0.05	mg/l	N	055
Sulphur (total)	T65	10:1	0.01	mg/l	N	055
Total Phenols	T16	10:1	0.5	µg/l	U	055
Cyanide(Total)	T220	10:1	10	µg/l	WU	055
Cyanide(free)	T220	10:1	10	µg/l	WN	055
Acenaphthene	T149	10:1	0.01	µg/l	U	055
Acenaphthylene	T149	10:1	0.01	µg/l	U	055
Anthracene	T149	10:1	0.01	µg/l	U	055
Benzo(a)Anthracene	T149	10:1	0.01	µg/l	U	055
Benzo(a)Pyrene	T149	10:1	0.01	µg/l	U	055
Benzo(b)fluoranthene	T149	10:1	0.01	µg/l	U	055
Benzo(ghi)Perylene	T149	10:1	0.01	µg/l	U	055
Benzo(k)fluoranthene	T149	10:1	0.01	µg/l	U	055
Chrysene	T149	10:1	0.01	µg/l	U	055
Dibenzo(ah)Anthracene	T149	10:1	0.01	µg/l	U	055
Fluoranthene	T149	10:1	0.01	µg/l	U	055
Fluorene	T149	10:1	0.01	µg/l	U	055
Indeno(123-cd)Pyrene	T149	10:1	0.01	µg/l	U	055
Naphthalene	T149	10:1	0.01	µg/l	U	055
Phenanthrene	T149	10:1	0.01	µg/l	U	055
Pyrene	T149	10:1	0.01	µg/l	U	055
PAH(total)	T149	10:1	0.01	µg/l	U	055
PAH (sum of 4)	T85	10:1		µg/l	N	055
Benzo(b/k)Fluoranthene	T149	10:1	0.01	µg/l	U	055
Indeno(123-cd)pyrene + Benzo(ghi)perylene (sum)	T85	10:1		µg/l	N	055
TPH (C8-C10) DW	T81	10:1	10	µg/l	U	055
TPH (C10-C12) DW	T81	10:1	10	µg/l	U	055
TPH (C12-C16) DW	T81	10:1	10	µg/l	U	055
TPH (C16-C21) DW	T81	10:1	10	µg/l	U	055
TPH (C21-C35) DW	T81	10:1	10	µg/l	U	055
TPH (C35-C40)	T81	10:1	10	µg/l	N	055
TPH (C8 - C40)	T85	10:1	10	µg/l	N	055
1,2,4-Trichlorobenzene	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
1,2-Dichlorobenzene	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
1,3-Dichlorobenzene	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
1,4-Dichlorobenzene	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
2,4,5-Trichlorophenol	T207	M105	0.1	mg/kg	U	009,024,055,057,071,081,095
2,4,6-Trichlorophenol	T207	M105	0.1	mg/kg	U	009,024,055,057,071,081,095
2,4-Dichlorophenol	T207	M105	0.1	mg/kg	U	009,024,055,057,071,081,095
2,4-Dimethylphenol	T207	M105	0.1	mg/kg	U	009,024,055,057,071,081,095
2,4-Dinitrophenol	T207	M105	0.1	mg/kg	U	009,024,055,057,071,081,095
2,4-Dinitrotoluene	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
2,6-Dinitrotoluene	T207	M105	0.1	mg/kg	U	009,024,055,057,071,081,095
2-Chloronaphthalene	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
2-Chlorophenol	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
2-methyl phenol	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
2-Methylnaphthalene	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
2-Nitroaniline	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
2-Nitrophenol	T207	M105	0.1	mg/kg	U	009,024,055,057,071,081,095
3-Nitroaniline	T207	M105	0.1	mg/kg	U	009,024,055,057,071,081,095
3/4-Methylphenol	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
4-Bromophenyl phenylether	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
4-Chloro-3-methylphenol	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
4-Chloroaniline	T207	M105	0.1	mg/kg	U	009,024,055,057,071,081,095
4-Chlorophenyl phenylether	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
4-Nitroaniline	T207	M105	0.1	mg/kg	U	009,024,055,057,071,081,095
4-Nitrophenol	T207	M105	0.1	mg/kg	U	009,024,055,057,071,081,095

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Azobenzene	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
Benzo(b/k)Fluoranthene	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
Bis (2-chloroethoxy) methane	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
Bis (2-chloroethyl) ether	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
Bis (2-chloroisopropyl) ether	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
Bis (2-ethylhexyl)phthalate	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
Butyl benzylphthalate	T207	M105	0.1	mg/kg	U	009,024,055,057,071,081,095
Carbazole	T207	M105	0.1	mg/kg	U	009,024,055,057,071,081,095
Di-n-butylphthalate	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
Di-n-octylphthalate	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
Dibenzofuran	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
Diethyl phthalate	T207	M105	0.1	mg/kg	U	009,024,055,057,071,081,095
Dimethyl phthalate	T207	M105	0.1	mg/kg	U	009,024,055,057,071,081,095
Hexachlorobenzene	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
Hexachlorobutadiene	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
Hexachlorocyclopentadiene	T207	M105	0.1	mg/kg	U	009,024,055,057,071,081,095
Hexachloroethane	T207	M105	0.1	mg/kg	U	009,024,055,057,071,081,095
Isophorone	T207	M105	0.1	mg/kg	U	009,024,055,057,071,081,095
Nitrobenzene	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
Pentachlorophenol	T207	M105	0.1	mg/kg	U	009,024,055,057,071,081,095
Phenol	T207	M105	0.1	mg/kg	M	009,024,055,057,071,081,095
1,1,1,2-Tetrachloroethane	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
1,1,1-Trichloroethane	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
1,1,2,2-Tetrachloroethane	T209	M105	0.050	mg/kg	U	009,024,055,057,071,081,095
1,1,2-Trichloroethane	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
1,1-Dichloroethane	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
1,1-Dichloroethylene	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
1,1-Dichloropropene	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
1,2,3-Trichloropropane	T209	M105	0.050	mg/kg	U	009,024,055,057,071,081,095
1,2,4-Trimethylbenzene	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
1,2-dibromoethane	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
1,2-Dichlorobenzene	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
1,2-Dichloroethane	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
1,2-Dichloropropane	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
1,3,5-Trimethylbenzene	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
1,3-Dichlorobenzene	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
1,3-Dichloropropane	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
1,4-Dichlorobenzene	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
2,2-Dichloropropane	T209	M105	0.050	mg/kg	U	009,024,055,057,071,081,095
2-Chlorotoluene	T209	M105	0.050	mg/kg	U	009,024,055,057,071,081,095
4-Chlorotoluene	T209	M105	0.050	mg/kg	U	009,024,055,057,071,081,095
Bromobenzene	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
Bromochloromethane	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
Bromodichloromethane	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
Bromoform	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
Bromomethane	T209	M105	0.050	mg/kg	U	009,024,055,057,071,081,095
Carbon tetrachloride	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
Chlorobenzene	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
Chlorodibromomethane	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
Chloroethane	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
Chloroform	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
Chloromethane	T209	M105	0.050	mg/kg	U	009,024,055,057,071,081,095
Cis-1,2-Dichloroethylene	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
Cis-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
Dibromomethane	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
Dichlorodifluoromethane	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
Dichloromethane	T209	M105	0.050	mg/kg	U	009,024,055,057,071,081,095
Isopropyl benzene	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
M/P Xylene	T209	M105	0.010	mg/kg	M	009,024,052,055,057,061,071,081,095
n-Propylbenzene	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
p-Isopropyltoluene	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
S-Butylbenzene	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
Styrene	T209	M105	0.050	mg/kg	U	009,024,055,057,071,081,095
T-Butylbenzene	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
Tetrachloroethene	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
Trans-1,2-Dichloroethene	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
Trans-1,3-Dichloropropene	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
Trichloroethene	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
Trichlorofluoromethane	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095
Vinyl chloride	T209	M105	0.050	mg/kg	M	009,024,055,057,071,081,095

Scientific Analysis Laboratories is a limited company registered in England and Wales (No 2514788) whose address is at Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: Supplement to 349248-1

Date of Report: 16-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 45W
Date Job Received at SAL: 06-Sep-2013
Date Analysis Started: 09-Sep-2013
Date Analysis Completed: 13-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Lianne Bromiley
Project Manager

[redacted]

SAL Reference: 349248
Project Site: A63 Castle St - 45W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**349248 001**	**349248 002**	**349248 003**	**349248 004**	**349248 005**	**349248 006**
				Customer Sample Reference	**SW2 EW 001**	**SW3 EW 001**	**BH26 EW 001**	**BH27 EW 001**	**BH24 EW 001**	**BH25 EW 001**
				Date Sampled	**05-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**	**05-SEP-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
pH	T7	AR			**7.7**	**7.9**	**7.3**	**7.7**	**7.4**	**6.9**
As (Dissolved)	T281	AR	0.2	µg/l	**270**	**260**	**110**	**62**	**75**	**200**
Boron	T6	AR	10	µg/l	**1800**	**1800**	**540**	**700**	**330**	**400**
Cd (Dissolved)	T281	AR	0.02	µg/l	**0.15**	**0.12**	**0.05**	<0.02	**0.04**	<0.02
Cr (Dissolved)	T281	AR	1	µg/l	**18**	**16**	**34**	**35**	**16**	**36**
Chromium (trivalent)	T85	AR	3	µg/l	**13**	**12**	**30**	**35**	**13**	**36**
Chromium VI	T686	AR	3	µg/l	**5**	**4**	**4**	<3	**3**	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**67**	**67**	**16**	**15**	**12**	**59**
Pb (Dissolved)	T281	AR	0.3	µg/l	**4.5**	**0.5**	<0.3	**0.8**	**1.1**	**0.7**
Hg (Dissolved)	T281	AR	0.05	µg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l	**13**	**13**	**10**	**7**	**16**	**11**
Se (Dissolved)	T281	AR	0.5	µg/l	**120**	**95**	**90**	**52**	**54**	**110**
Zn (Dissolved)	T281	AR	2	µg/l	**41**	**35**	**6**	**11**	**32**	**22**
Calcium	T6	AR	100	µg/l	**160000**	**160000**	**170000**	**91000**	**130000**	**180000**
Magnesium	T6	AR	100	µg/l	**520000**	**540000**	**120000**	**76000**	**99000**	**260000**
Potassium	T6	AR	100	µg/l	**210000**	**220000**	**74000**	**68000**	**62000**	**82000**
Sodium	T6	AR	100	µg/l	**3900000**	**4000000**	**1100000**	**330000**	**860000**	**2300000**
Nitrate	T686	AR	0.5	mg/l	**1.7**	**1.8**	<0.5	<0.5	<0.5	<0.5
Nitrite	T686	AR	0.1	mg/l	**0.2**	**0.2**	<0.1	**0.2**	<0.1	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	**0.4**	**0.4**	<0.1	**0.1**	<0.1	<0.1
Sulphate	T686	AR	0.5	mg/l	**1300**	**1300**	**100**	**65**	**130**	**59**
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**450**	**450**	**36**	**21**	**56**	**15**
Chloride	T686	AR	1	mg/l	**9700**	**9700**	**2000**	**490**	**1700**	**5700**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**0.57**	**0.52**	**19**	**7.7**	**14**	**37**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**0.73**	**0.67**	**25**	**9.9**	**17**	**48**
Suspended Solids (Total)	T2	AR	10	mg/l	<10	<10	**3900**	**490**	**210**	**14000**
Electrical Conductivity	T7	AR	10	µS/cm	**27000**	**27000**	**8000**	**3200**	**7200**	**18000**
Total Phenols	T16	AR	0.5	µg/l	<0.5	<0.5	<0.5	<0.5	**0.7**	<0.5
Cyanide(Total)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10
Cyanide(free)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	T149	AR	0.01	µg/l	**0.06**	**0.02**	**0.07**	<0.01	**0.05**	<0.01
Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10	<0.01	<0.01	<0.01
Fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10	<0.01	<0.01	<0.01
Naphthalene	T149	AR	0.01	µg/l	**0.11**	**0.21**	**0.04**	<0.01	**0.04**	**0.04**
Phenanthrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH(total)	T149	AR	0.01	µg/l	**0.17**	**0.23**	**0.11**	<0.01	**0.09**	**0.04**
TPH (C8-C10) DW	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l	<10	<10	<10	<10	**11**	<10
TPH (C16-C21) DW	T81	AR	10	µg/l	<10	<10	<10	<10	**32**	<10
TPH (C21-C35) DW	T81	AR	10	µg/l	<10	<10	<10	<10	**160**	<10
TPH (C35-C40)	T81	AR	10	µg/l	<10	<10	<10	<10	**21**	<10
TPH (C8 - C40)	T85	AR	10	µg/l	<10	<10	<10	<10	**220**	<10

Index to symbols used in Supplement to 349248-1

Value	Description
AR	As Received
110	LOD raised due to low internal standard recovery.
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Supplemental report issued to correct the Ammonia expressed as NH4 results for samples 001 and 002

Method Index

Value	Description
T2	Grav
T149	GC/MS (SIR)
T179	Colorimetry (XION 500)
T281	ICP/MS (Filtered)
T4	Colorimetry
T65	ICP/OES (Preconc.)
T7	Probe
T6	ICP/OES
T686	Discrete Analyser
T16	GC/MS
T81	GC/FID (LV)
T220	Colorimetry (SD)
T85	Calc

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
pH	T7	AR			U	001-006
As (Dissolved)	T281	AR	0.2	µg/l	U	001-006
Boron	T6	AR	10	µg/l	N	001-006
Cd (Dissolved)	T281	AR	0.02	µg/l	U	001-006
Cr (Dissolved)	T281	AR	1	µg/l	U	001-006
Chromium (trivalent)	T85	AR	3	µg/l	N	001-006
Chromium VI	T686	AR	3	µg/l	U	001-006
Cu (Dissolved)	T281	AR	0.5	µg/l	U	001-006
Pb (Dissolved)	T281	AR	0.3	µg/l	U	001-006
Hg (Dissolved)	T281	AR	0.05	µg/l	U	001-006
Ni (Dissolved)	T281	AR	1	µg/l	U	001-006
Se (Dissolved)	T281	AR	0.5	µg/l	U	001-006
Zn (Dissolved)	T281	AR	2	µg/l	U	001-006
Calcium	T6	AR	100	µg/l	N	001-006
Magnesium	T6	AR	100	µg/l	N	001-006
Potassium	T6	AR	100	µg/l	N	001-006
Sodium	T6	AR	100	µg/l	N	001-006
Nitrate	T686	AR	0.5	mg/l	U	001-006
Nitrite	T686	AR	0.1	mg/l	U	001-006
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	001-006
Sulphate	T686	AR	0.5	mg/l	U	001-006
Sulphide	T4	AR	0.05	mg/l	N	001-006
Sulphur (total)	T65	AR	0.01	mg/l	N	001-006
Chloride	T686	AR	1	mg/l	U	001-006
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	001-006
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	001-006
Suspended Solids (Total)	T2	AR	10	mg/l	N	001-006
Electrical Conductivity	T7	AR	10	µS/cm	N	001-006
Total Phenols	T16	AR	0.5	µg/l	U	001-006
Cyanide(Total)	T220	AR	10	µg/l	WU	001-006
Cyanide(free)	T220	AR	10	µg/l	WN	001-006
Acenaphthene	T149	AR	0.01	µg/l	U	001-006
Acenaphthylene	T149	AR	0.01	µg/l	U	001-006
Anthracene	T149	AR	0.01	µg/l	U	001-006

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	001-006
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	001-006
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	001-006
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	001-006
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	001-006
Chrysene	T149	AR	0.01	µg/l	U	001-006
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	001-006
Fluoranthene	T149	AR	0.01	µg/l	U	001-006
Fluorene	T149	AR	0.01	µg/l	U	001-006
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	001-006
Naphthalene	T149	AR	0.01	µg/l	U	001-006
Phenanthrene	T149	AR	0.01	µg/l	U	001-006
Pyrene	T149	AR	0.01	µg/l	U	001-006
PAH(total)	T149	AR	0.01	µg/l	U	001-006
TPH (C8-C10) DW	T81	AR	10	µg/l	U	001-006
TPH (C10-C12) DW	T81	AR	10	µg/l	U	001-006
TPH (C12-C16) DW	T81	AR	10	µg/l	U	001-006
TPH (C16-C21) DW	T81	AR	10	µg/l	U	001-006
TPH (C21-C35) DW	T81	AR	10	µg/l	U	001-006
TPH (C35-C40)	T81	AR	10	µg/l	N	001-006
TPH (C8 - C40)	T85	AR	10	µg/l	N	001-006

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Wales (No 2514788) whose address is at
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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Fax : 0161 874 2468

Report Number: 350456-1

Date of Report: 26-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 49, 50
Date Job Received at SAL: 12-Sep-2013
Date Analysis Started: 16-Sep-2013
Date Analysis Completed: 26-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

[redacted]

SAL Reference: 350456
Project Site: A63 Castle St - 49, 50
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**350456 001**	**350456 003**	**350456 006**	**350456 007**	**350456 009**
				Customer Sample Reference	**WS14 ES003 1.2-1.67**	**WS14 ES005 2.0-3.0**	**SCPT35 ES001 0.5**	**WS05 ES003 1.2-2.0**	**WS05 ES005 3.0-4.0**
				Top Depth	**1.2**	**2.0**		**1.2**	**3.0**
				Date Sampled	**12-SEP-2013**	**12-SEP-2013**	**11-SEP-2013**	**11-SEP-2013**	**11-SEP-2013**
				Depth	**1.67**	**3.0**	**0.5**	**2.0**	**4.0**
				Type	**Clay**	**Clay**	**Sandy Soil**	**Clay**	**Clay**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Moisture @ 105 C	T162	AR	0.1	%	**22**	**25**	**9.0**	**18**	**27**
Moisture	T277	AR	0.1	%	**22**	**23**	**8.3**	**18**	**23**
Asbestos ID	T27	AR			N.D.	-	N.D.	N.D.	-
pH	T7	AR			**7.2**	**7.3**	**7.9**	**8.1**	**8.4**
Mass Fraction of organic carbon	T286	M40			-	**0.010**	-	-	**0.0096**
Arsenic	T6	M40	2	mg/kg	**14**	**9**	**17**	**11**	**10**
Boron (water-soluble)	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Cadmium	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Chromium	T6	M40	1	mg/kg	**26**	**24**	**23**	**21**	**21**
Chromium (trivalent)	T85	AR	2	mg/kg	**26**	**24**	**23**	**21**	**22**
Chromium VI	T6	AR	1	mg/kg	<1	<1	<1	<1	<1
Copper	T6	M40	1	mg/kg	**15**	**12**	**22**	**12**	**13**
Lead	T6	M40	1	mg/kg	**24**	**15**	**91**	**15**	**14**
Mercury	T6	M40	1	mg/kg	<1	<1	<1	<1	<1
Nickel	T6	M40	1	mg/kg	**26**	**23**	**16**	**21**	**23**
Selenium	T6	M40	3	mg/kg	<3	<3	<3	<3	<3
Zinc	T6	M40	1	mg/kg	**64**	**60**	**79**	**58**	**59**
Cyanide(Total)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1
Cyanide(free)	T546	AR	1	mg/kg	<1	<1	<1	<1	<1
SO4(Total)	T6	M40	0.01	%	**0.05**	**0.07**	**0.20**	**0.06**	**0.88**
Total Phenols	T149	AR	0.01	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.1**	<0.1	<0.1
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.2**	<0.1	<0.1
Fluorene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Naphthalene	T207	M105	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.1**	<0.1	<0.1
Pyrene	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.2**	<0.1	<0.1
PAH(total)	T207	M105	0.1	mg/kg	<0.1	<0.1	**0.6**	<0.1	<0.1
TPH (C8-C10)	T8	M105	1	mg/kg	-	<1	<1	-	<1
TPH (C10-C12)	T206	M105	1	mg/kg	-	<1	<1	-	<1
TPH (C12-C16)	T206	M105	1	mg/kg	-	<1	<1	-	<1
TPH (C16-C21)	T206	M105	1	mg/kg	-	<1	<1	-	<1
TPH (C21-C35)	T206	M105	1	mg/kg	-	<1	**5**	-	<1
TPH (C35-C40)	T8	M105	1	mg/kg	-	<1	**5**	-	<1
TPH (C8 - C40)	T85	M105	1	mg/kg	-	<1	**10**	-	<1
Benzene	T209	M105	0.010	mg/kg	<0.010	-	-	<0.010	-
Toluene	T209	M105	0.010	mg/kg	**0.015**	-	-	<0.010	-
EthylBenzene	T209	M105	0.010	mg/kg	<0.010	-	-	<0.010	-
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	<0.010	-	-	<0.010	-
O Xylene	T209	M105	0.010	mg/kg	<0.010	-	-	<0.010	-
M/P Xylene	T209	M105	0.010	mg/kg	**0.017**	-	-	<0.010	-
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	<0.100	-	-	<0.100	-
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	<0.10	-	-	<0.10	-
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	<0.10	-	-	<0.10	-

SAL Reference: 350456
Project Site: A63 Castle St - 49, 50
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

	SAL Reference	350456 001	350456 003	350456 006	350456 007	350456 009
	Customer Sample Reference	WS14 ES003 1.2-1.67	WS14 ES005 2.0-3.0	SCPT35 ES001 0.5	WS05 ES003 1.2-2.0	WS05 ES005 3.0-4.0
	Top Depth	1.2	2.0		1.2	3.0
	Date Sampled	12-SEP-2013	12-SEP-2013	11-SEP-2013	11-SEP-2013	11-SEP-2013
	Depth	1.67	3.0	0.5	2.0	4.0
	Type	Clay	Clay	Sandy Soil	Clay	Clay
Determinand	**Method** / **Test Sample** / **LOD** / **Units**					
TPH (C10-C12 aliphatic)	T206 M105 1 mg/kg	<1	-	-	<1	-
TPH (C12-C16 aliphatic)	T206 M105 2 mg/kg	<2	-	-	<2	-
TPH (C16-C21 aliphatic)	T206 M105 1 mg/kg	<1	-	-	**2**	-
TPH (C21-C35 aliphatic)	T206 M105 4 mg/kg	<4	-	-	<4	-
TPH (C35-C44 aliphatic)	T8 M105 1 mg/kg	<1	-	-	<1	-
TPH (Aliphatic) total	T85 M105 mg/kg	N.D.	-	-	**2.0**	-
TPH (C6-C7 aromatic)	T209 M105 0.10 mg/kg	<0.10	-	-	<0.10	-
TPH (C7-C8 aromatic)	T209 M105 0.10 mg/kg	<0.10	-	-	<0.10	-
TPH (C8-C10 aromatic)	T209 M105 0.10 mg/kg	<0.10	-	-	<0.10	-
TPH (C10-C12 aromatic)	T206 M105 1 mg/kg	<1	-	-	<1	-
TPH (C12-C16 aromatic)	T206 M105 1 mg/kg	<1	-	-	<1	-
TPH (C16-C21 aromatic)	T206 M105 1 mg/kg	<1	-	-	**2**	-
TPH (C21-C35 aromatic)	T206 M105 1 mg/kg	**2**	-	-	<1	-
TPH (C35-C44 aromatic)	T8 M105 1 mg/kg	<1	-	-	<1	-
TPH (Aromatic) total	T85 M105 mg/kg	**2.0**	-	-	**2.0**	-
TPH (Aliphatic+Aromatic) (sum)	T85 M105 mg/kg	**2.0**	-	-	**4.0**	-
PCB BZ#101	T1 M105 0.00005 mg/kg	-	-	-	-	**0.00009**
PCB BZ#118	T1 M105 0.00005 mg/kg	-	-	-	-	**0.00011**
PCB BZ#138	T1 M105 0.00005 mg/kg	-	-	-	-	**0.00016**
PCB BZ#153	T1 M105 0.00005 mg/kg	-	-	-	-	**0.00014**
PCB BZ#180	T1 M105 0.00005 mg/kg	-	-	-	-	**0.00018**
PCB BZ#28	T1 M105 0.00005 mg/kg	-	-	-	-	<0.00005
PCB BZ#52	T1 M105 0.00005 mg/kg	-	-	-	-	<0.00005

Index to symbols used in 350456-1

Value	Description
AR	As Received
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
N.D.	Not Detected
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T277	Grav (1 Dec) (40 C)
T546	Colorimetry (CF)
T207	GC/MS(MCERTS)
T85	Calc
T8	GC/FID
T7	Probe
T162	Grav (1 Dec) (105 C)
T209	GC/MS(Head Space)(MCERTS)
T286	Calc TOC/100
T27	PLM
T6	ICP/OES

T1	GC/MS (HR)
T206	GC/FID (MCERTS)
T149	GC/MS (SIR)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Moisture @ 105 C	T162	AR	0.1	%	N	001,003,006-007,009
Moisture	T277	AR	0.1	%	N	001,003,006-007,009
Asbestos ID	T27	AR			SU	001,006-007
pH	T7	AR			M	001,003,006-007,009
Mass Fraction of organic carbon	T286	M40			N	003,009
Arsenic	T6	M40	2	mg/kg	M	001,003,006-007,009
Boron (water-soluble)	T6	AR	1	mg/kg	N	001,003,006-007,009
Cadmium	T6	M40	1	mg/kg	M	001,003,006-007,009
Chromium	T6	M40	1	mg/kg	M	001,003,006-007,009
Chromium (trivalent)	T85	AR	2	mg/kg	N	001,003,006-007,009
Chromium VI	T6	AR	1	mg/kg	N	001,003,006-007,009
Copper	T6	M40	1	mg/kg	M	001,003,006-007,009
Lead	T6	M40	1	mg/kg	M	001,003,006-007,009
Mercury	T6	M40	1	mg/kg	M	001,003,006-007,009
Nickel	T6	M40	1	mg/kg	M	001,003,006-007,009
Selenium	T6	M40	3	mg/kg	M	001,003,006-007,009
Zinc	T6	M40	1	mg/kg	M	001,003,006-007,009
Cyanide(Total)	T546	AR	1	mg/kg	M	001,003,006-007,009
Cyanide(free)	T546	AR	1	mg/kg	M	001,003,006-007,009
SO4(Total)	T6	M40	0.01	%	N	001,003,006-007,009
Total Phenols	T149	AR	0.01	mg/kg	U	001,003,006-007,009
Acenaphthene	T207	M105	0.1	mg/kg	M	001,003,006-007,009
Acenaphthylene	T207	M105	0.1	mg/kg	U	001,003,006-007,009
Anthracene	T207	M105	0.1	mg/kg	U	001,003,006-007,009
Benzo(a)Anthracene	T207	M105	0.1	mg/kg	M	001,003,006-007,009
Benzo(a)Pyrene	T207	M105	0.1	mg/kg	M	001,003,006-007,009
Benzo(b)fluoranthene	T207	M105	0.1	mg/kg	M	001,003,006-007,009
Benzo(ghi)Perylene	T207	M105	0.1	mg/kg	M	001,003,006-007,009
Benzo(k)fluoranthene	T207	M105	0.1	mg/kg	M	001,003,006-007,009
Chrysene	T207	M105	0.1	mg/kg	M	001,003,006-007,009
Dibenzo(ah)Anthracene	T207	M105	0.1	mg/kg	M	001,003,006-007,009
Fluoranthene	T207	M105	0.1	mg/kg	M	001,003,006-007,009
Fluorene	T207	M105	0.1	mg/kg	M	001,003,006-007,009
Indeno(123-cd)Pyrene	T207	M105	0.1	mg/kg	M	001,003,006-007,009
Naphthalene	T207	M105	0.1	mg/kg	M	001,003,006-007,009
Phenanthrene	T207	M105	0.1	mg/kg	M	001,003,006-007,009
Pyrene	T207	M105	0.1	mg/kg	M	001,003,006-007,009
PAH(total)	T207	M105	0.1	mg/kg	U	001,003,006-007,009
TPH (C8-C10)	T8	M105	1	mg/kg	N	003,006,009
TPH (C10-C12)	T206	M105	1	mg/kg	M	003,006,009
TPH (C12-C16)	T206	M105	1	mg/kg	M	003,006,009
TPH (C16-C21)	T206	M105	1	mg/kg	M	003,006,009
TPH (C21-C35)	T206	M105	1	mg/kg	M	003,006,009
TPH (C35-C40)	T8	M105	1	mg/kg	N	003,006,009
TPH (C8 - C40)	T85	M105	1	mg/kg	N	003,006,009
Benzene	T209	M105	0.010	mg/kg	M	001,007
Toluene	T209	M105	0.010	mg/kg	M	001,007
EthylBenzene	T209	M105	0.010	mg/kg	M	001,007
Methyl tert-Butyl Ether	T209	M105	0.010	mg/kg	M	001,007
O Xylene	T209	M105	0.010	mg/kg	M	001,007
M/P Xylene	T209	M105	0.010	mg/kg	M	001,007
TPH (C5-C6 aliphatic)	T209	M105	0.100	mg/kg	N	001,007
TPH (C6-C8 aliphatic)	T209	M105	0.10	mg/kg	N	001,007
TPH (C8-C10 aliphatic)	T209	M105	0.10	mg/kg	N	001,007
TPH (C10-C12 aliphatic)	T206	M105	1	mg/kg	M	001,007
TPH (C12-C16 aliphatic)	T206	M105	2	mg/kg	M	001,007
TPH (C16-C21 aliphatic)	T206	M105	1	mg/kg	M	001,007
TPH (C21-C35 aliphatic)	T206	M105	4	mg/kg	M	001,007
TPH (C35-C44 aliphatic)	T8	M105	1	mg/kg	N	001,007
TPH (Aliphatic) total	T85	M105		mg/kg	N	001,007
TPH (C6-C7 aromatic)	T209	M105	0.10	mg/kg	N	001,007
TPH (C7-C8 aromatic)	T209	M105	0.10	mg/kg	N	001,007
TPH (C8-C10 aromatic)	T209	M105	0.10	mg/kg	N	001,007

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
TPH (C10-C12 aromatic)	T206	M105	1	mg/kg	M	001,007
TPH (C12-C16 aromatic)	T206	M105	1	mg/kg	M	001,007
TPH (C16-C21 aromatic)	T206	M105	1	mg/kg	M	001,007
TPH (C21-C35 aromatic)	T206	M105	1	mg/kg	M	001,007
TPH (C35-C44 aromatic)	T8	M105	1	mg/kg	N	001,007
TPH (Aromatic) total	T85	M105		mg/kg	N	001,007
TPH (Aliphatic+Aromatic) (sum)	T85	M105		mg/kg	N	001,007
PCB BZ#101	T1	M105	0.00005	mg/kg	M	009
PCB BZ#118	T1	M105	0.00005	mg/kg	M	009
PCB BZ#138	T1	M105	0.00005	mg/kg	M	009
PCB BZ#153	T1	M105	0.00005	mg/kg	M	009
PCB BZ#180	T1	M105	0.00005	mg/kg	M	009
PCB BZ#28	T1	M105	0.00005	mg/kg	M	009
PCB BZ#52	T1	M105	0.00005	mg/kg	M	009

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 350954-1

Date of Report: 25-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 51
Date Job Received at SAL: 17-Sep-2013
Date Analysis Started: 19-Sep-2013
Date Analysis Completed: 25-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

[redacted]

SAL Reference: 350954
Project Site: A63 Castle St - 51
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**350954 001**	**350954 002**	**350954 003**
				Customer Sample Reference	**BH24 EW 001**	**BH18A EW 001**	**BH29 EW 001**
				Date Sampled	**16-SEP-2013**	**16-SEP-2013**	**16-SEP-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
pH	T7	AR			**7.6**	**11.7**	**11.9**
As (Dissolved)	T281	AR	0.2	µg/l	**37**	**45**	**36**
Boron	T6	AR	10	µg/l	**380**	**350**	**63**
Cd (Dissolved)	T281	AR	0.02	µg/l	**0.11**	**0.09**	**0.15**
Cr (Dissolved)	T281	AR	1	µg/l	**19**	**41**	**3**
Chromium (trivalent)	T85	AR	3	µg/l	<3	**27**	**3**
Chromium VI	T686	AR	3	µg/l	**17**	**14**	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**14**	**20**	**50**
Pb (Dissolved)	T281	AR	0.3	µg/l	**17**	**12**	**7.9**
Hg (Dissolved)	T281	AR	0.05	µg/l	**0.08**	**0.21**	**0.11**
Ni (Dissolved)	T281	AR	1	µg/l	**14**	**6**	**39**
Se (Dissolved)	T281	AR	0.5	µg/l	**57**	**160**	**94**
Zn (Dissolved)	T281	AR	2	µg/l	**22**	**2**	**3**
Calcium	T6	AR	100	µg/l	**170000**	**240000**	**240000**
Magnesium	T6	AR	100	µg/l	**130000**	**250**	<100
Potassium	T6	AR	100	µg/l	**75000**	**82000**	**78000**
Sodium	T6	AR	100	µg/l	**1100000**	**1500000**	**1500000**
Nitrate	T686	AR	0.5	mg/l	**5.0**	**10**	**10**
Nitrite	T686	AR	0.1	mg/l	**15**	**3.3**	**0.8**
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	**2.7**	**3.2**	**2.6**
Sulphate	T686	AR	0.5	mg/l	**130**	**610**	**320**
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**74**	**210**	**120**
Chloride	T686	AR	1	mg/l	**2100**	**3800**	**3200**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**5.5**	**9.1**	**18**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**7.1**	**12**	**23**
Suspended Solids (Total)	T2	AR	10	mg/l	**14**	**27**	**52**
Electrical Conductivity	T7	AR	10	µS/cm	**9100**	**10000**	**7100**
Total Phenols	T16	AR	0.5	µg/l	**1.2**	**0.9**	**2.4**
Cyanide(Total)	T220	AR	10	µg/l	<10	<10	<10
Cyanide(free)	T220	AR	10	µg/l	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l	**0.03**	**0.03**	<0.01
Acenaphthylene	T149	AR	0.01	µg/l	**0.02**	**0.02**	<0.01
Anthracene	T149	AR	0.01	µg/l	**0.03**	**0.02**	**0.02**
Benzo(a)Anthracene	T149	AR	0.01	µg/l	**0.04**	**0.02**	**0.03**
Benzo(a)Pyrene	T149	AR	0.01	µg/l	**0.03**	**0.02**	**0.02**
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	**0.03**	**0.02**	**0.02**
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	**0.03**	**0.02**	**0.02**
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	**0.03**	**0.02**	**0.02**
Chrysene	T149	AR	0.01	µg/l	**0.03**	**0.02**	**0.03**
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	**0.03**	**0.02**	**0.02**
Fluoranthene	T149	AR	0.01	µg/l	**0.10**	**0.06**	**0.17**
Fluorene	T149	AR	0.01	µg/l	**0.03**	**0.02**	**0.03**
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	**0.03**	**0.02**	**0.02**
Naphthalene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Phenanthrene	T149	AR	0.01	µg/l	**0.04**	**0.05**	**0.12**
Pyrene	T149	AR	0.01	µg/l	**0.12**	**0.05**	**0.12**
PAH(total)	T149	AR	0.01	µg/l	**0.62**	**0.41**	**0.64**
TPH (C8-C10) DW	T81	AR	10	µg/l	<10	<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l	<10	<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l	**11**	<10	<10
TPH (C16-C21) DW	T81	AR	10	µg/l	**21**	**12**	**11**
TPH (C21-C35) DW	T81	AR	10	µg/l	**58**	**22**	**20**
TPH (C35-C40)	T81	AR	10	µg/l	<10	<10	<10
TPH (C8 - C40)	T85	AR	10	µg/l	**90**	**30**	**30**

Index to symbols used in 350954-1

Value	Description
AR	As Received
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T149	GC/MS (SIR)
T686	Discrete Analyser
T7	Probe
T220	Colorimetry (SD)
T6	ICP/OES
T4	Colorimetry
T81	GC/FID (LV)
T179	Colorimetry (XION 500)
T16	GC/MS
T281	ICP/MS (Filtered)
T65	ICP/OES (Preconc.)
T85	Calc
T2	Grav

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
pH	T7	AR			U	001-003
As (Dissolved)	T281	AR	0.2	µg/l	U	001-003
Boron	T6	AR	10	µg/l	N	001-003
Cd (Dissolved)	T281	AR	0.02	µg/l	U	001-003
Cr (Dissolved)	T281	AR	1	µg/l	U	001-003
Chromium (trivalent)	T85	AR	3	µg/l	N	001-003
Chromium VI	T686	AR	3	µg/l	U	001-003
Cu (Dissolved)	T281	AR	0.5	µg/l	U	001-003
Pb (Dissolved)	T281	AR	0.3	µg/l	U	001-003
Hg (Dissolved)	T281	AR	0.05	µg/l	U	001-003
Ni (Dissolved)	T281	AR	1	µg/l	U	001-003
Se (Dissolved)	T281	AR	0.5	µg/l	U	001-003
Zn (Dissolved)	T281	AR	2	µg/l	U	001-003
Calcium	T6	AR	100	µg/l	N	001-003
Magnesium	T6	AR	100	µg/l	N	001-003
Potassium	T6	AR	100	µg/l	N	001-003
Sodium	T6	AR	100	µg/l	N	001-003
Nitrate	T686	AR	0.5	mg/l	U	001-003
Nitrite	T686	AR	0.1	mg/l	U	001-003
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	001-003
Sulphate	T686	AR	0.5	mg/l	U	001-003
Sulphide	T4	AR	0.05	mg/l	N	001-003
Sulphur (total)	T65	AR	0.01	mg/l	N	001-003
Chloride	T686	AR	1	mg/l	U	001-003
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	001-003
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	001-003
Suspended Solids (Total)	T2	AR	10	mg/l	N	001-003
Electrical Conductivity	T7	AR	10	µS/cm	N	001-003
Total Phenols	T16	AR	0.5	µg/l	U	001-003
Cyanide(Total)	T220	AR	10	µg/l	WU	001-003
Cyanide(free)	T220	AR	10	µg/l	WN	001-003
Acenaphthene	T149	AR	0.01	µg/l	U	001-003
Acenaphthylene	T149	AR	0.01	µg/l	U	001-003
Anthracene	T149	AR	0.01	µg/l	U	001-003
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	001-003
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	001-003
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	001-003
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	001-003
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	001-003
Chrysene	T149	AR	0.01	µg/l	U	001-003

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	001-003
Fluoranthene	T149	AR	0.01	µg/l	U	001-003
Fluorene	T149	AR	0.01	µg/l	U	001-003
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	001-003
Naphthalene	T149	AR	0.01	µg/l	U	001-003
Phenanthrene	T149	AR	0.01	µg/l	U	001-003
Pyrene	T149	AR	0.01	µg/l	U	001-003
PAH(total)	T149	AR	0.01	µg/l	U	001-003
TPH (C8-C10) DW	T81	AR	10	µg/l	U	001-003
TPH (C10-C12) DW	T81	AR	10	µg/l	U	001-003
TPH (C12-C16) DW	T81	AR	10	µg/l	U	001-003
TPH (C16-C21) DW	T81	AR	10	µg/l	U	001-003
TPH (C21-C35) DW	T81	AR	10	µg/l	U	001-003
TPH (C35-C40)	T81	AR	10	µg/l	N	001-003
TPH (C8 - C40)	T85	AR	10	µg/l	N	001-003

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 353522-1

Date of Report: 15-Oct-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 52W
Date Job Received at SAL: 02-Oct-2013
Date Analysis Started: 04-Oct-2013
Date Analysis Completed: 15-Oct-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

SAL Reference: 353522
Project Site: A63 Castle St - 52W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**353522 001**	**353522 002**	**353522 003**	**353522 004**	**353522 005**	**353522 006**
				Customer Sample Reference	**BH02 EW 001**	**BH04 EW 001**	**BH07 EW 001**	**BH12 EW 001**	**BH11 EW 001**	**BH13 EW 001**
				Date Sampled	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
pH	T7	AR			**7.5**	**7.4**	**7.6**	**7.9**	**8.1**	**7.4**
As (Dissolved)	T281	AR	0.2	µg/l	**72**	**48**	**79**	**68**	**19**	**42**
Boron	T6	AR	10	µg/l	**2100**	**460**	**1800**	**1900**	**1300**	**330**
Cd (Dissolved)	T281	AR	0.02	µg/l	**0.06**	**0.03**	**0.03**	**0.02**	<0.02	**0.18**
Cr (Dissolved)	T281	AR	1	µg/l	**15**	**29**	**61**	**17**	**40**	**54**
Chromium (trivalent)	T85	AR	3	µg/l	**15**	**29**	**61**	**17**	**40**	**51**
Chromium VI	T686	AR	3	µg/l	<3	<3	<3	<3	<3	**3**
Cu (Dissolved)	T281	AR	0.5	µg/l	**1500**	**3900**	**120**	**6500**	**17**	**2600**
Pb (Dissolved)	T281	AR	0.3	µg/l	**0.4**	<0.3	<0.3	<0.3	<0.3	**0.4**
Hg (Dissolved)	T281	AR	0.05	µg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l	**36**	**27**	**8**	**55**	**6**	**24**
Se (Dissolved)	T281	AR	0.5	µg/l	<0.5	<0.5	**23**	<0.5	**6.3**	<0.5
Zn (Dissolved)	T281	AR	2	µg/l	**3**	<2	<2	**3**	**3**	**35**
Calcium	T6	AR	100	µg/l	**300000**	**290000**	**56000**	**330000**	**53000**	**240000**
Magnesium	T6	AR	100	µg/l	**590000**	**270000**	**120000**	**570000**	**62000**	**230000**
Potassium	T6	AR	100	µg/l	**250000**	**110000**	**89000**	**230000**	**76000**	**74000**
Sodium	T6	AR	100	µg/l	**4100000**	**2600000**	**1200000**	**4000000**	**280000**	**2700000**
Fe (Dissolved)	T373	AR	10	µg/l	**900**	**1400**	**2000**	**280**	**200**	**230**
Fe (Total)	T303	AR	10	µg/l	**6400**	**8500**	**140000**	**4600**	**4000**	**13000**
Mn (Dissolved)	T373	AR	10	µg/l	**1500**	**3000**	**900**	**420**	**830**	**1700**
Mn (Total)	T303	AR	10	µg/l	**1300**	**3000**	**10000**	**480**	**890**	**1800**
Nitrate	T686	AR	0.5	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrite	T686	AR	0.1	mg/l	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulphate	T686	AR	0.5	mg/l	**1500**	**100**	<0.5	**1500**	**160**	**100**
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**450**	**47**	**2.1**	**440**	**71**	**44**
Chloride	T686	AR	1	mg/l	**9800**	**6800**	**2300**	**9800**	**2500**	**6500**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**1.6**	**13**	**18**	**2.0**	**12**	**8.7**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**2.1**	**16**	**23**	**2.5**	**16**	**11**
Suspended Solids (Total)	T2	AR	10	mg/l	**50**	**160**	**2200**	**150**	**130**	**300**
Electrical Conductivity	T7	AR	10	µS/cm	**27000**	**20000**	**8500**	**27000**	**3000**	**19000**
Total Phenols	T16	AR	0.5	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide(Total)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10
Cyanide(free)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.06**	<0.01	<0.01	<0.01
Acenaphthylene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.04**	<0.01	<0.01	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.02**	<0.01	<0.01	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	<0.01	<0.01	(110) <0.10	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.03**	<0.01	<0.01	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	(110) <0.10	<0.01	<0.01	<0.01
Fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.09**	<0.01	<0.01	<0.01
Fluorene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.04**	<0.01	<0.01	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	(110) <0.10	<0.01	<0.01	<0.01
Naphthalene	T149	AR	0.01	µg/l	**0.41**	**0.25**	**0.51**	**0.28**	**0.10**	**0.23**
Phenanthrene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.11**	<0.01	<0.01	<0.01
Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.07**	<0.01	<0.01	<0.01
PAH(total)	T149	AR	0.01	µg/l	**0.41**	**0.25**	**0.97**	**0.28**	**0.10**	**0.23**
TPH (C8-C10) DW	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l	<10	<10	**15**	<10	<10	<10
TPH (C16-C21) DW	T81	AR	10	µg/l	<10	<10	**45**	<10	<10	<10
TPH (C21-C35) DW	T81	AR	10	µg/l	<10	<10	**20**	<10	<10	<10

SAL Reference: 353522
Project Site: A63 Castle St - 52W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**353522 001**	**353522 002**	**353522 003**	**353522 004**	**353522 005**	**353522 006**
				Customer Sample Reference	**BH02 EW 001**	**BH04 EW 001**	**BH07 EW 001**	**BH12 EW 001**	**BH11 EW 001**	**BH13 EW 001**
				Date Sampled	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
TPH (C35-C40)	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10
TPH (C8 - C40)	T85	AR	10	µg/l	<10	<10	**90**	<10	<10	<10

SAL Reference: 353522
Project Site: A63 Castle St - 52W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

					SAL Reference	353522 007	353522 008	353522 009	353522 010	353522 011	353522 012
					Customer Sample Reference	BH19 EW 001	BH22 EW 001	BH20 EW 001	BH32 EW 001	BH33 EW 001	BH34 EW 001
					Date Sampled	01-OCT-2013	01-OCT-2013	01-OCT-2013	01-OCT-2013	01-OCT-2013	01-OCT-2013
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
pH	T7	AR				**8.0**	**8.0**	**7.3**	**7.9**	**7.5**	**7.7**
As (Dissolved)	T281	AR	0.2	µg/l		**53**	**91**	**43**	**60**	**64**	**34**
Boron	T6	AR	10	µg/l		**1600**	**1600**	**710**	**1200**	**1900**	**410**
Cd (Dissolved)	T281	AR	0.02	µg/l		<0.02	<0.02	**0.02**	<0.02	**0.03**	**0.03**
Cr (Dissolved)	T281	AR	1	µg/l		**91**	**78**	**42**	**44**	**16**	**35**
Chromium (trivalent)	T85	AR	3	µg/l		**91**	**78**	**39**	**44**	**16**	**35**
Chromium VI	T686	AR	3	µg/l		<3	<3	**3**	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l		**68**	**63**	**1400**	**36**	**4500**	**74**
Pb (Dissolved)	T281	AR	0.3	µg/l		<0.3	**0.3**	<0.3	<0.3	<0.3	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l		**4**	**6**	**19**	**6**	**40**	**20**
Se (Dissolved)	T281	AR	0.5	µg/l		**25**	**22**	<0.5	**13**	<0.5	**24**
Zn (Dissolved)	T281	AR	2	µg/l		<2	<2	**4**	<2	**3**	**4**
Calcium	T6	AR	100	µg/l		**57000**	**59000**	**260000**	**100000**	**240000**	**150000**
Magnesium	T6	AR	100	µg/l		**120000**	**110000**	**260000**	**110000**	**520000**	**110000**
Potassium	T6	AR	100	µg/l		**91000**	**100000**	**83000**	**88000**	**220000**	**58000**
Sodium	T6	AR	100	µg/l		**1100000**	**970000**	**2200000**	**550000**	**3600000**	**890000**
Fe (Dissolved)	T373	AR	10	µg/l		**650**	**3300**	**240**	**300**	**280**	**190**
Fe (Total)	T303	AR	10	µg/l		**120000**	**20000**	**130000**	**86000**	**8600**	**27000**
Mn (Dissolved)	T373	AR	10	µg/l		**320**	**1100**	**2400**	**960**	**500**	**460**
Mn (Total)	T303	AR	10	µg/l		**8500**	**1600**	**9800**	**4800**	**450**	**1100**
Nitrate	T686	AR	0.5	mg/l		<0.5	<0.5	<0.5	<0.5	<0.5	**17**
Nitrite	T686	AR	0.1	mg/l		**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**
Total Oxidised Nitrogen	T686	AR	0.1	mg/l		<0.1	<0.1	<0.1	<0.1	<0.1	**4.0**
Sulphate	T686	AR	0.5	mg/l		**35**	**13**	**260**	**350**	**1400**	**3300**
Sulphide	T4	AR	0.05	mg/l		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l		**15**	**5.9**	**120**	**140**	**440**	**23**
Chloride	T686	AR	1	mg/l		**1300**	**1500**	**4000**	**2200**	**9400**	**3300**
Ammoniacal nitrogen	T179	AR	0.015	mg/l		**16**	**16**	**5.9**	**14**	**1.7**	**9.8**
Ammonia expressed as NH4	T179	AR	0.019	mg/l		**21**	**21**	**7.6**	**19**	**2.2**	**13**
Suspended Solids (Total)	T2	AR	10	mg/l		**430**	**580**	**2400**	**2100**	**25**	**220**
Electrical Conductivity	T7	AR	10	µS/cm		**8700**	**7000**	**18000**	**4900**	**26000**	**7200**
Total Phenols	T16	AR	0.5	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide(Total)	T220	AR	10	µg/l		<10	**150**	<10	<10	<10	<10
Cyanide(free)	T220	AR	10	µg/l		<10	<10	<10	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	**0.02**	<0.01	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l		<0.01	<0.01	(110) <0.10	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	**0.02**	<0.01	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l		<0.01	<0.01	(110) <0.10	<0.01	<0.01	<0.01
Fluoranthene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	**0.03**	<0.01	<0.01
Fluorene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l		<0.01	<0.01	(110) <0.10	<0.01	<0.01	<0.01
Naphthalene	T149	AR	0.01	µg/l		**0.14**	**0.30**	**0.31**	**0.20**	**0.24**	**0.19**
Phenanthrene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	**0.05**	<0.01	<0.01
Pyrene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	**0.03**	<0.01	<0.01
PAH(total)	T149	AR	0.01	µg/l		**0.14**	**0.30**	**0.31**	**0.35**	**0.24**	**0.19**
TPH (C8-C10) DW	T81	AR	10	µg/l		<10	<10	<10	<10	<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l		<10	<10	**15**	<10	<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l		<10	<10	**76**	<10	<10	<10
TPH (C16-C21) DW	T81	AR	10	µg/l		**10**	<10	**43**	<10	<10	<10
TPH (C21-C35) DW	T81	AR	10	µg/l		**23**	**24**	**42**	<10	<10	<10

SAL Reference: 353522
Project Site: A63 Castle St - 52W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**353522 007**	**353522 008**	**353522 009**	**353522 010**	**353522 011**	**353522 012**
				Customer Sample Reference	**BH19 EW 001**	**BH22 EW 001**	**BH20 EW 001**	**BH32 EW 001**	**BH33 EW 001**	**BH34 EW 001**
				Date Sampled	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
TPH (C35-C40)	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10
TPH (C8 - C40)	T85	AR	10	µg/l	**30**	**20**	**180**	<10	<10	<10

Index to symbols used in 353522-1

Value	Description
AR	As Received
110	LOD raised due to low internal standard recovery.
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T2	Grav
T149	GC/MS (SIR)
T81	GC/FID (LV)
T16	GC/MS
T220	Colorimetry (SD)
T281	ICP/MS (Filtered)
T373	ICP/OES (Filtered)
T85	Calc
T179	Colorimetry (XION 500)
T303	ICP-OES (Total)
T7	Probe
T6	ICP/OES
T65	ICP/OES (Preconc.)
T4	Colorimetry
T686	Discrete Analyser

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
pH	T7	AR			U	001-012
As (Dissolved)	T281	AR	0.2	µg/l	U	001-012
Boron	T6	AR	10	µg/l	N	001-012
Cd (Dissolved)	T281	AR	0.02	µg/l	U	001-012
Cr (Dissolved)	T281	AR	1	µg/l	U	001-012
Chromium (trivalent)	T85	AR	3	µg/l	N	001-012
Chromium VI	T686	AR	3	µg/l	U	001-012
Cu (Dissolved)	T281	AR	0.5	µg/l	U	001-012
Pb (Dissolved)	T281	AR	0.3	µg/l	U	001-012
Hg (Dissolved)	T281	AR	0.05	µg/l	U	001-012
Ni (Dissolved)	T281	AR	1	µg/l	U	001-012
Se (Dissolved)	T281	AR	0.5	µg/l	U	001-012
Zn (Dissolved)	T281	AR	2	µg/l	U	001-012
Calcium	T6	AR	100	µg/l	N	001-012
Magnesium	T6	AR	100	µg/l	N	001-012
Potassium	T6	AR	100	µg/l	N	001-012
Sodium	T6	AR	100	µg/l	N	001-012
Fe (Dissolved)	T373	AR	10	µg/l	U	001-012
Fe (Total)	T303	AR	10	µg/l	U	001-012
Mn (Dissolved)	T373	AR	10	µg/l	U	001-012
Mn (Total)	T303	AR	10	µg/l	U	001-012
Nitrate	T686	AR	0.5	mg/l	U	001-012

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Nitrite	T686	AR	0.1	mg/l	U	001-012
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	001-012
Sulphate	T686	AR	0.5	mg/l	U	001-012
Sulphide	T4	AR	0.05	mg/l	N	001-012
Sulphur (total)	T65	AR	0.01	mg/l	N	001-012
Chloride	T686	AR	1	mg/l	U	001-012
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	001-012
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	001-012
Suspended Solids (Total)	T2	AR	10	mg/l	N	001-012
Electrical Conductivity	T7	AR	10	µS/cm	N	001-012
Total Phenols	T16	AR	0.5	µg/l	U	001-012
Cyanide(Total)	T220	AR	10	µg/l	WU	001-012
Cyanide(free)	T220	AR	10	µg/l	WN	001-012
Acenaphthene	T149	AR	0.01	µg/l	U	001-012
Acenaphthylene	T149	AR	0.01	µg/l	U	001-012
Anthracene	T149	AR	0.01	µg/l	U	001-012
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	001-012
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	001-012
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	001-012
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	001-012
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	001-012
Chrysene	T149	AR	0.01	µg/l	U	001-012
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	001-012
Fluoranthene	T149	AR	0.01	µg/l	U	001-012
Fluorene	T149	AR	0.01	µg/l	U	001-012
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	001-012
Naphthalene	T149	AR	0.01	µg/l	U	001-012
Phenanthrene	T149	AR	0.01	µg/l	U	001-012
Pyrene	T149	AR	0.01	µg/l	U	001-012
PAH(total)	T149	AR	0.01	µg/l	U	001-012
TPH (C8-C10) DW	T81	AR	10	µg/l	U	001-012
TPH (C10-C12) DW	T81	AR	10	µg/l	U	001-012
TPH (C12-C16) DW	T81	AR	10	µg/l	U	001-012
TPH (C16-C21) DW	T81	AR	10	µg/l	U	001-012
TPH (C21-C35) DW	T81	AR	10	µg/l	U	001-012
TPH (C35-C40)	T81	AR	10	µg/l	N	001-012
TPH (C8 - C40)	T85	AR	10	µg/l	N	001-012

Scientific Analysis Laboratories is a limited company registered in England and Wales (No 2514788) whose address is at Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 353722-1 Interim

Date of Report: 15-Oct-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 53W
Date Job Received at SAL: 03-Oct-2013
Date Analysis Started: 07-Oct-2013
Date Analysis Completed: 14-Oct-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

Report checked and authorised by :

Issued by :
Mr Ross Walker
Customer Services Manager (Land)

SAL Reference: 353722
Project Site: A63 Castle St - 53W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**353722 001**	**353722 002**	**353722 003**	**353722 004**	**353722 005**	**353722 006**	**353722 007**	**353722 008**	**353722 009**	**353722 010**	**353722 011**	**353722 012**
				Customer Sample Reference	**BH37 EW 001**	**BH38 EW 001**	**BH40A EW 001**	**BH44 EW 001**	**BH46 EW 001**	**BH45 EW 001**	**BH43 EW 001**	**BH41A EW 001**	**BH25 EW 001**	**BH27 EW 001**	**BH28 EW 001**	**D1 EW 001**
				Date Sampled	**02-OCT-2013**	**02-OCT-2013**	**02-OCT-2013**	**02-OCT-2013**	**02-OCT-2013**	**02-OCT-2013**	**02-OCT-2013**	**02-OCT-2013**	**02-OCT-2013**	**02-OCT-2013**	**02-OCT-2013**	**02-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**												
pH	T7	AR			**7.7**	**7.7**	**7.1**	**7.3**	**7.4**	**7.0**	**7.2**	**7.5**	**6.9**	**7.5**	**6.8**	**6.8**
As (Dissolved)	T281	AR	0.2	µg/l	**62**	**55**	**18**	**9.9**	**23**	**34**	**11**	**53**	**93**	**62**	**47**	**63**
Boron	T6	AR	10	µg/l	**1300**	**1400**	**940**	**1000**	**1200**	**1400**	**910**	**1900**	**620**	**1100**	**470**	**460**
Cd (Dissolved)	T281	AR	0.02	µg/l	**0.04**	**0.03**	<0.02	<0.02	<0.02	**0.03**	<0.02	**0.24**	**0.04**	<0.02	**0.04**	**0.03**
Cr (Dissolved)	T281	AR	1	µg/l	**51**	**57**	**31**	**29**	**55**	**34**	**23**	**11**	**60**	**41**	**47**	**47**
Chromium (trivalent)	T85	AR	3	µg/l	**51**	**57**	**31**	**29**	**55**	**34**	**23**	**11**	**60**	**41**	**47**	**47**
Chromium VI	T686	AR	3	µg/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**17**	**11**	**13**	**7.3**	**15**	**45**	**7.5**	**150**	**5100**	**31**	**120**	**210**
Pb (Dissolved)	T281	AR	0.3	µg/l	**0.7**	**0.7**	**0.6**	**0.6**	**0.4**	**0.3**	**0.4**	<0.3	<0.3	<0.3	**0.3**	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l	**5**	**7**	**13**	**4**	**7**	**14**	**9**	**25**	**24**	**8**	**38**	**40**
Se (Dissolved)	T281	AR	0.5	µg/l	**17**	**17**	**22**	**12**	**29**	**48**	**12**	<0.5	<0.5	**14**	**38**	<0.5
Zn (Dissolved)	T281	AR	2	µg/l	<2	<2	<2	<2	<2	**3**	<2	**6**	**4**	<2	**3**	**3**
Calcium	T6	AR	100	µg/l	**87000**	**82000**	**450000**	**120000**	**170000**	**250000**	**210000**	**200000**	**270000**	**87000**	**380000**	**380000**
Magnesium	T6	AR	100	µg/l	**110000**	**110000**	**140000**	**97000**	**160000**	**260000**	**100000**	**440000**	**320000**	**99000**	**320000**	**330000**
Potassium	T6	AR	100	µg/l	**79000**	**110000**	**170000**	**88000**	**130000**	**160000**	**120000**	**200000**	**110000**	**95000**	**83000**	**88000**
Sodium	T6	AR	100	µg/l	**670000**	**550000**	**410000**	**300000**	**870000**	**1600000**	**290000**	**3000000**	**2700000**	**390000**	**2500000**	**2600000**
Fe (Dissolved)	T373	AR	10	µg/l	**170**	**220**	**9600**	**190**	**1100**	**220**	**130**	**250**	**24000**	**940**	**270**	**2000**
Fe (Total)	T303	AR	10	µg/l	**64000**	**28000**	**32000**	**14000**	**52000**	**21000**	**78000**	**8600**	**80000**	**92000**	**58000**	**130000**
Mn (Dissolved)	T373	AR	10	µg/l	**560**	**930**	**720**	**410**	**500**	**670**	**960**	**140**	**1600**	**810**	**2600**	**2500**
Mn (Total)	T303	AR	10	µg/l	**3200**	**1300**	**1400**	**660**	**2000**	**1100**	**6000**	**640**	**2900**	**4700**	**4300**	**6500**
Nitrate	T686	AR	0.5	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2.9**	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrite	T686	AR	0.1	mg/l	**16**	**12**	**38**	**0.7**	**0.6**	**17**	**0.8**	**18**	**8.4**	**6.8**	**0.1**	**3.2**
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1	<0.1	**0.2**	<0.1	**0.9**	**0.2**	**0.1**	<0.1	<0.1	<0.1
Sulphate	T686	AR	0.5	mg/l	**250**	**91**	**410**	**93**	**17**	**480**	**220**	**1100**	**45**	**53**	**71**	**63**
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**89**	**29**	**150**	**38**	**5.7**	**170**	**83**	**370**	**8.5**	**8.9**	**22**	**20**
Chloride	T686	AR	1	mg/l	**900**	**900**	**1600**	**760**	**1900**	**3000**	**840**	**7900**	**6600**	**990**	**6900**	**6700**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**6.9**	**19**	**6.7**	**14**	**27**	**10**	**5.1**	**0.63**	**34**	**14**	**30**	**30**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**8.9**	**25**	**8.6**	**18**	**35**	**13**	**6.6**	**0.81**	**44**	**18**	**39**	**38**
Suspended Solids (Total)	T2	AR	10	mg/l	**25**	**36**	**64**	**35**	**14**	**26**	**130**	**24**	**19**	**97**	**14**	**26**
Electrical Conductivity	T7	AR	10	µS/cm	**5300**	**4700**	**6600**	**3800**	**7500**	**13000**	**3500**	**21000**	**19000**	**3500**	**19000**	**18000**
Total Phenols	T16	AR	0.5	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide(Total)	T220	AR	10	µg/l	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide(free)	T220	AR	10	µg/l	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	T149	AR	0.01	µg/l	<0.01	**0.01**	**0.01**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.01**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.01**	<0.01	<0.01	<0.01	<0.01	**0.02**	<0.01	<0.01	<0.01	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01	**0.01**	**0.01**	<0.01	<0.01	**0.02**	**0.01**	**0.05**	**0.01**	<0.01	<0.01	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l	<0.01	**0.01**	**0.02**	<0.01	<0.01	**0.02**	<0.01	**0.04**	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	**0.01**	**0.02**	**0.02**	<0.01	<0.01	**0.02**	**0.02**	**0.04**	**0.02**	<0.01	<0.01	**0.01**
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	**0.01**	**0.02**	**0.03**	<0.01	<0.01	**0.02**	**0.03**	**0.04**	**0.01**	**0.01**	<0.01	**0.01**
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	**0.01**	**0.01**	**0.02**	<0.01	<0.01	**0.02**	**0.01**	**0.04**	**0.01**	<0.01	<0.01	<0.01
Chrysene	T149	AR	0.01	µg/l	**0.01**	**0.02**	**0.02**	<0.01	<0.01	**0.02**	**0.02**	**0.05**	**0.02**	<0.01	<0.01	**0.01**
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.03**	<0.01	<0.01	<0.01	<0.01	**0.01**	<0.01	<0.01	<0.01	<0.01
Fluoranthene	T149	AR	0.01	µg/l	**0.01**	**0.01**	**0.01**	<0.01	<0.01	**0.03**	**0.01**	**0.08**	**0.01**	<0.01	<0.01	**0.01**
Fluorene	T149	AR	0.01	µg/l	<0.01	**0.01**	**0.01**	<0.01	<0.01	<0.01	**0.01**	**0.01**	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	<0.01	**0.02**	**0.03**	<0.01	<0.01	**0.01**	**0.01**	**0.04**	<0.01	<0.01	<0.01	<0.01
Naphthalene	T149	AR	0.01	µg/l	**0.35**	**0.21**	**0.14**	**0.10**	**0.03**	**0.30**	**0.09**	**0.02**	**0.31**	**0.19**	**0.15**	**0.16**
Phenanthrene	T149	AR	0.01	µg/l	**0.02**	**0.03**	**0.02**	<0.01	<0.01	**0.03**	**0.03**	**0.05**	**0.02**	**0.01**	<0.01	**0.02**
Pyrene	T149	AR	0.01	µg/l	**0.01**	**0.02**	**0.02**	<0.01	<0.01	**0.03**	**0.02**	**0.07**	**0.01**	<0.01	<0.01	**0.01**
PAH(total)	T149	AR	0.01	µg/l	**0.43**	**0.40**	**0.41**	**0.10**	**0.03**	**0.52**	**0.26**	**0.56**	**0.42**	**0.21**	**0.15**	**0.23**
TPH (C8-C10) DW	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

SAL Reference: 353722
Project Site: A63 Castle St - 53W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

SAL Reference	353722 001	353722 002	353722 003	353722 004	353722 005	353722 006	353722 007	353722 008	353722 009	353722 010	353722 011	353722 012
Customer Sample Reference	BH37 EW 001	BH38 EW 001	BH40A EW 001	BH44 EW 001	BH46 EW 001	BH45 EW 001	BH43 EW 001	BH41A EW 001	BH25 EW 001	BH27 EW 001	BH28 EW 001	D1 EW 001
Date Sampled	02-OCT-2013	02-OCT-2013	02-OCT-2013	02-OCT-2013	02-OCT-2013	02-OCT-2013	02-OCT-2013	02-OCT-2013	02-OCT-2013	02-OCT-2013	02-OCT-2013	02-OCT-2013

Determinand	Method	Test Sample	LOD	Units												
TPH (C16-C21) DW	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (C21-C35) DW	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (C35-C40)	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (C8 - C40)	T85	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Index to symbols used in 353722-1 Interim

Value	Description
AR	As Received
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T16	GC/MS
T686	Discrete Analyser
T303	ICP-OES (Total)
T85	Calc
T7	Probe
T179	Colorimetry (XION 500)
T4	Colorimetry
T220	Colorimetry (SD)
T2	Grav
T149	GC/MS (SIR)
T6	ICP/OES
T281	ICP/MS (Filtered)
T65	ICP/OES (Preconc.)
T81	GC/FID (LV)
T373	ICP/OES (Filtered)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
pH	T7	AR			U	001-012
As (Dissolved)	T281	AR	0.2	µg/l	U	001-012
Boron	T6	AR	10	µg/l	N	001-012
Cd (Dissolved)	T281	AR	0.02	µg/l	U	001-012
Cr (Dissolved)	T281	AR	1	µg/l	U	001-012
Chromium (trivalent)	T85	AR	3	µg/l	N	001-012
Chromium VI	T686	AR	3	µg/l	U	001-012
Cu (Dissolved)	T281	AR	0.5	µg/l	U	001-012
Pb (Dissolved)	T281	AR	0.3	µg/l	U	001-012
Hg (Dissolved)	T281	AR	0.05	µg/l	U	001-012
Ni (Dissolved)	T281	AR	1	µg/l	U	001-012
Se (Dissolved)	T281	AR	0.5	µg/l	U	001-012
Zn (Dissolved)	T281	AR	2	µg/l	U	001-012
Calcium	T6	AR	100	µg/l	N	001-012
Magnesium	T6	AR	100	µg/l	N	001-012
Potassium	T6	AR	100	µg/l	N	001-012
Sodium	T6	AR	100	µg/l	N	001-012
Fe (Dissolved)	T373	AR	10	µg/l	U	001-012
Fe (Total)	T303	AR	10	µg/l	U	001-012

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Mn (Dissolved)	T373	AR	10	µg/l	U	001-012
Mn (Total)	T303	AR	10	µg/l	U	001-012
Nitrate	T686	AR	0.5	mg/l	U	001-012
Nitrite	T686	AR	0.1	mg/l	U	001-012
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	001-012
Sulphate	T686	AR	0.5	mg/l	U	001-012
Sulphide	T4	AR	0.05	mg/l	N	001-012
Sulphur (total)	T65	AR	0.01	mg/l	N	001-012
Chloride	T686	AR	1	mg/l	U	001-012
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	001-012
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	001-012
Suspended Solids (Total)	T2	AR	10	mg/l	N	001-012
Electrical Conductivity	T7	AR	10	µS/cm	N	001-012
Total Phenols	T16	AR	0.5	µg/l	U	001-012
Cyanide(Total)	T220	AR	10	µg/l	WU	001-012
Cyanide(free)	T220	AR	10	µg/l	WN	001-012
Acenaphthene	T149	AR	0.01	µg/l	U	001-012
Acenaphthylene	T149	AR	0.01	µg/l	U	001-012
Anthracene	T149	AR	0.01	µg/l	U	001-012
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	001-012
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	001-012
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	001-012
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	001-012
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	001-012
Chrysene	T149	AR	0.01	µg/l	U	001-012
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	001-012
Fluoranthene	T149	AR	0.01	µg/l	U	001-012
Fluorene	T149	AR	0.01	µg/l	U	001-012
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	001-012
Naphthalene	T149	AR	0.01	µg/l	U	001-012
Phenanthrene	T149	AR	0.01	µg/l	U	001-012
Pyrene	T149	AR	0.01	µg/l	U	001-012
PAH(total)	T149	AR	0.01	µg/l	U	001-012
TPH (C8-C10) DW	T81	AR	10	µg/l	U	001-012
TPH (C10-C12) DW	T81	AR	10	µg/l	U	001-012
TPH (C12-C16) DW	T81	AR	10	µg/l	U	001-012
TPH (C16-C21) DW	T81	AR	10	µg/l	U	001-012
TPH (C21-C35) DW	T81	AR	10	µg/l	U	001-012
TPH (C35-C40)	T81	AR	10	µg/l	N	001-012
TPH (C8 - C40)	T85	AR	10	µg/l	N	001-012

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 354130-1 Interim

Date of Report: 17-Oct-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 54W
Date Job Received at SAL: 04-Oct-2013
Date Analysis Started: 09-Oct-2013
Date Analysis Completed:

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

Report checked and authorised by :

Issued by :
Mr Ross Walker
Customer Services Manager (Land)

SAL Reference: 354130
Project Site: A63 Castle St - 54W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**354130 001**	**354130 002**	**354130 003**	**354130 004**	**354130 005**	**354130 006**	**354130 007**	**354130 008**
				Customer Sample Reference	**BH01 EW 001**	**BH-3 EW 001**	**BH05 EW 001**	**BH06 EW 001**	**BH18A EW 001**	**BH15 EW 001**	**BH24 EW 001**	**BH26 EW 001**
				Date Sampled	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
pH	T7	AR			**7.1**	**7.1**	**7.2**	**7.2**	**7.2**	**7.3**	**7.2**	**6.8**
As (Dissolved)	T281	AR	0.2	µg/l	**52**	**69**	**66**	**70**	**72**	**66**	**68**	**65**
Boron	T6	AR	10	µg/l	**1400**	**1900**	**1300**	**1500**	**2000**	**1100**	**2000**	**300**
Cd (Dissolved)	T281	AR	0.02	µg/l	**0.05**	**0.06**	**0.04**	**0.04**	**0.05**	**0.03**	**0.07**	**0.05**
Cr (Dissolved)	T281	AR	1	µg/l	**47**	**15**	**56**	**23**	**14**	**63**	**16**	**67**
Chromium (trivalent)	T85	AR	3	µg/l	**47**	**15**	**56**	**19**	**14**	**63**	**16**	**67**
Chromium VI	T686	AR	3	µg/l	<3	<3	<3	**4**	<3	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**93**	**290**	**200**	**390**	**510**	**180**	**520**	**1500**
Pb (Dissolved)	T281	AR	0.3	µg/l	**0.7**	<0.3	<0.3	<0.3	<0.3	<0.3	**0.5**	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l	**0.07**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l	**22**	**36**	**13**	**43**	**39**	**27**	**57**	**36**
Se (Dissolved)	T281	AR	0.5	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	**34**	<0.5	<0.5
Zn (Dissolved)	T281	AR	2	µg/l	**4**	**7**	**4**	**6**	**15**	**7**	**13**	**7**
Calcium	T6	AR	100	µg/l	**160000**	**300000**	**100000**	**340000**	**250000**	**260000**	**200000**	**330000**
Magnesium	T6	AR	100	µg/l	**310000**	**510000**	**270000**	**460000**	**520000**	**220000**	**530000**	**290000**
Potassium	T6	AR	100	µg/l	**90000**	**200000**	**97000**	**140000**	**210000**	**72000**	**220000**	**87000**
Sodium	T6	AR	100	µg/l	**2700000**	**3600000**	**2500000**	**3300000**	**3600000**	**2200000**	**3900000**	**2300000**
Fe (Dissolved)	T373	AR	10	µg/l	**260**	**240**	**3300**	**970**	**230**	**430**	**250**	**7300**
Fe (Total)	T303	AR	10	µg/l	**48000**	**47000**	**140000**	**250000**	**8600**	**67000**	**4600**	**200000**
Mn (Dissolved)	T373	AR	10	µg/l	**1800**	**1300**	**790**	**920**	**510**	**820**	**460**	**5400**
Mn (Total)	T303	AR	10	µg/l	**5200**	**2800**	**3400**	**9300**	**550**	**2400**	**470**	**11000**
Nitrate	T686	AR	0.5	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrite	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1	**0.1**	<0.1	<0.1	**0.2**	**0.1**
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.2**	**0.1**
Sulphate	T686	AR	0.5	mg/l	**99**	**1200**	**4.8**	**1000**	**1300**	**76**	**1300**	**30**
Sulphide	T4	AR	0.05	mg/l	**9.9**	**1200**	**4.8**	**1000**	**1300**	**76**	**1300**	**30**
Sulphur (total)	T65	AR	0.01	mg/l	**25**	**410**	**4.1**	**350**	**420**	**23**	**420**	**14**
Chloride	T686	AR	1	mg/l	**6900**	**9200**	**6200**	**8100**	**9500**	**5200**	**11000**	**6600**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**19**	**2.8**	**33**	**3.8**	**1.7**	**22**	**1.1**	**50**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**25**	**3.6**	**42**	**4.8**	**2.2**	**29**	**1.4**	**64**
Suspended Solids (Total)	T2	AR	10	mg/l	**87**	<10	**730**	**150**	**55**	**36**	<10	**1400**
Electrical Conductivity	T7	AR	10	µS/cm	**20000**	**25000**	**19000**	**23000**	**25000**	**16000**	**25000**	**19000**
Total Phenols	T16	AR	0.5	µg/l	<0.5	<0.5	**0.8**	<0.5	<0.5	<0.5	<0.5	**2.4**
Cyanide(Total)	T220	AR	10	µg/l	-	-	-	-	-	-	-	-
Cyanide(free)	T220	AR	10	µg/l	-	-	-	-	-	-	-	-
Acenaphthene	T149	AR	0.01	µg/l	**0.03**	**0.02**	<0.01	<0.01	**0.05**	**0.02**	<0.01	**0.06**
Acenaphthylene	T149	AR	0.01	µg/l	**0.11**	**0.08**	<0.01	**0.02**	**0.23**	**0.03**	<0.01	**0.04**
Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	**0.06**	<0.01	<0.01	**0.02**
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	**0.02**	<0.01	<0.01	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	**0.02**	<0.01	<0.01	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	**0.04**	<0.01	<0.01	<0.01
Fluorene	T149	AR	0.01	µg/l	**0.03**	**0.02**	<0.01	**0.01**	**0.09**	**0.02**	<0.01	**0.05**
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Naphthalene	T149	AR	0.01	µg/l	**4.7**	**3.6**	**0.48**	**0.63**	**3.3**	**0.49**	**0.34**	**0.48**
Phenanthrene	T149	AR	0.01	µg/l	**0.02**	**0.02**	<0.01	**0.03**	**0.19**	**0.01**	<0.01	**0.01**
Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	**0.06**	<0.01	<0.01	<0.01
PAH(total)	T149	AR	0.01	µg/l	**4.9**	**3.7**	**0.48**	**0.69**	**4.1**	**0.57**	**0.34**	**0.66**
TPH (C8-C10) DW	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l	**280**	<10	<10	<10	<10	<10	<10	<10
TPH (C16-C21) DW	T81	AR	10	µg/l	**36**	<10	<10	<10	<10	<10	<10	**17**
TPH (C21-C35) DW	T81	AR	10	µg/l	**46**	<10	<10	<10	**51**	**150**	**33**	**44**

SAL Reference: 354130
Project Site: A63 Castle St - 54W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

	SAL Reference	**354130 001**	**354130 002**	**354130 003**	**354130 004**	**354130 005**	**354130 006**	**354130 007**	**354130 008**
	Customer Sample Reference	**BH01 EW 001**	**BH-3 EW 001**	**BH05 EW 001**	**BH06 EW 001**	**BH18A EW 001**	**BH15 EW 001**	**BH24 EW 001**	**BH26 EW 001**
	Date Sampled	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C35-C40)	T81	AR	10	µg/l	<10	<10	<10	<10	<10	**12**	<10	<10
TPH (C8 - C40)	T85	AR	10	µg/l	**370**	<10	<10	<10	**50**	**160**	**30**	**60**

SAL Reference: 354130
Project Site: A63 Castle St - 54W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

					SAL Reference	354130 009	354130 010	354130 011	354130 012	354130 013	354130 014	354130 015
					Customer Sample Reference	BH21 EW 001	BH14 EW 001	BH47 EW 001	BH42 EW 001	BH30 EW 001	BH35 SHALLOW EW 001	BH35 DEEP EW 001
					Date Sampled	03-OCT-2013	03-OCT-2013	03-OCT-2013	03-OCT-2013	04-OCT-2013	04-OCT-2013	04-OCT-2013
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
pH	T7	AR				7.0	6.9	7.2	7.1	6.9	7.7	7.8
As (Dissolved)	T281	AR	0.2	µg/l		65	55	130	37	48	68	58
Boron	T6	AR	10	µg/l		1900	390	1400	1400	1400	1800	860
Cd (Dissolved)	T281	AR	0.02	µg/l		0.05	0.04	0.03	0.03	0.05	0.04	0.05
Cr (Dissolved)	T281	AR	1	µg/l		16	44	67	33	44	49	66
Chromium (trivalent)	T85	AR	3	µg/l		16	44	67	33	44	49	66
Chromium VI	T686	AR	3	µg/l		<3	<3	<3	<3	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l		580	320	240	170	2900	64	130
Pb (Dissolved)	T281	AR	0.3	µg/l		<0.3	<0.3	0.5	<0.3	<0.3	<0.3	0.6
Hg (Dissolved)	T281	AR	0.05	µg/l		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.14
Ni (Dissolved)	T281	AR	1	µg/l		32	41	23	21	16	9	42
Se (Dissolved)	T281	AR	0.5	µg/l		<0.5	1.3	<0.5	51	<0.5	32	60
Zn (Dissolved)	T281	AR	2	µg/l		5	10	8	4	7	7	10
Calcium	T6	AR	100	µg/l		190000	370000	200000	150000	300000	61000	84000
Magnesium	T6	AR	100	µg/l		490000	250000	380000	280000	240000	110000	150000
Potassium	T6	AR	100	µg/l		190000	110000	130000	120000	150000	100000	89000
Sodium	T6	AR	100	µg/l		3500000	2400000	2900000	2000000	2200000	1200000	1700000
Fe (Dissolved)	T373	AR	10	µg/l		350	720	4300	240	26000	480	860
Fe (Total)	T303	AR	10	µg/l		11000	560000	15000	11000	51000	9500	8900
Mn (Dissolved)	T373	AR	10	µg/l		360	1600	610	470	1100	420	250
Mn (Total)	T303	AR	10	µg/l		370	22000	680	540	1600	610	430
Nitrate	T686	AR	0.5	mg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrite	T686	AR	0.1	mg/l		0.2	0.1	<0.1	<0.1	<0.1	<0.1	0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l		0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulphate	T686	AR	0.5	mg/l		1200	190	<0.5	510	<0.5	46	9.6
Sulphide	T4	AR	0.05	mg/l		1200	190	<0.05	510	<0.05	46	9.6
Sulphur (total)	T65	AR	0.01	mg/l		400	80	2.1	190	3.7	18	50
Chloride	T686	AR	1	mg/l		8800	6600	7400	4900	6100	2100	7400
Ammoniacal nitrogen	T179	AR	0.015	mg/l		1.9	22	44	8.8	31	18	28
Ammonia expressed as NH4	T179	AR	0.019	mg/l		2.5	29	57	11	39	24	35
Suspended Solids (Total)	T2	AR	10	mg/l		24	14000	40	130	14	<10	130
Electrical Conductivity	T7	AR	10	µS/cm		24000	19000	21000	15000	18000	8700	11000
Total Phenols	T16	AR	0.5	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide(Total)	T220	AR	10	µg/l		-	-	-	-	-	-	-
Cyanide(free)	T220	AR	10	µg/l		-	-	-	-	-	-	-
Acenaphthene	T149	AR	0.01	µg/l		0.04	0.07	<0.01	<0.01	0.08	<0.01	0.02
Acenaphthylene	T149	AR	0.01	µg/l		0.01	0.01	<0.01	<0.01	0.07	0.01	0.02
Anthracene	T149	AR	0.01	µg/l		<0.01	0.15	<0.01	<0.01	0.04	<0.01	0.04
Benzo(a)Anthracene	T149	AR	0.01	µg/l		<0.01	0.18	<0.01	<0.01	0.01	0.01	0.04
Benzo(a)Pyrene	T149	AR	0.01	µg/l		<0.01	0.18	<0.01	<0.01	<0.01	<0.01	0.05
Benzo(b)fluoranthene	T149	AR	0.01	µg/l		<0.01	0.25	<0.01	<0.01	<0.01	0.02	0.06
Benzo(ghi)Perylene	T149	AR	0.01	µg/l		<0.01	0.16	<0.01	<0.01	<0.01	<0.01	0.04
Benzo(k)fluoranthene	T149	AR	0.01	µg/l		<0.01	0.13	<0.01	<0.01	<0.01	0.02	0.06
Chrysene	T149	AR	0.01	µg/l		<0.01	0.32	<0.01	<0.01	0.01	0.02	0.05
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l		<0.01	0.03	<0.01	<0.01	<0.01	<0.01	0.04
Fluoranthene	T149	AR	0.01	µg/l		<0.01	0.36	<0.01	<0.01	0.02	0.02	0.05
Fluorene	T149	AR	0.01	µg/l		<0.01	0.15	<0.01	<0.01	0.08	0.02	0.03
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l		<0.01	0.05	<0.01	<0.01	<0.01	<0.01	0.04
Naphthalene	T149	AR	0.01	µg/l		0.44	0.45	0.34	0.22	0.32	0.40	0.03
Phenanthrene	T149	AR	0.01	µg/l		<0.01	0.63	<0.01	<0.01	0.04	0.02	0.04
Pyrene	T149	AR	0.01	µg/l		<0.01	0.33	<0.01	<0.01	0.02	0.02	0.05
PAH(total)	T149	AR	0.01	µg/l		0.49	3.5	0.34	0.22	0.69	0.56	0.66
TPH (C8-C10) DW	T81	AR	10	µg/l		<10	(100) <20	<10	<10	<10	<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l		<10	(100) <20	<10	<10	26	<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l		120	(100) <20	<10	<10	95	<10	400
TPH (C16-C21) DW	T81	AR	10	µg/l		34	26	<10	<10	63	17	120

SAL Reference: 354130
Project Site: A63 Castle St - 54W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

SAL Reference	**354130 009**	**354130 010**	**354130 011**	**354130 012**	**354130 013**	**354130 014**	**354130 015**
Customer Sample Reference	**BH21 EW 001**	**BH14 EW 001**	**BH47 EW 001**	**BH42 EW 001**	**BH30 EW 001**	**BH35 SHALLOW EW 001**	**BH35 DEEP EW 001**
Date Sampled	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**04-OCT-2013**	**04-OCT-2013**	**04-OCT-2013**

Determinand	Method	Test Sample	LOD	Units							
TPH (C21-C35) DW	T81	AR	10	µg/l	**13**	**230**	<10	<10	**47**	**76**	**410**
TPH (C35-C40)	T81	AR	10	µg/l	<10	**27**	<10	<10	<10	<10	**52**
TPH (C8 - C40)	T85	AR	10	µg/l	**160**	**290**	<10	<10	**230**	**100**	**980**

Index to symbols used in 354130-1 Interim

Value	Description
AR	As Received
100	LOD determined by sample aliquot used for analysis
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T7	Probe
T2	Grav
T81	GC/FID (LV)
T220	Colorimetry (SD)
T281	ICP/MS (Filtered)
T85	Calc
T16	GC/MS
T4	Colorimetry
T149	GC/MS (SIR)
T373	ICP/OES (Filtered)
T686	Discrete Analyser
T65	ICP/OES (Preconc.)
T303	ICP-OES (Total)
T6	ICP/OES
T179	Colorimetry (XION 500)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
pH	T7	AR			U	001-015
As (Dissolved)	T281	AR	0.2	µg/l	U	001-015
Boron	T6	AR	10	µg/l	N	001-015
Cd (Dissolved)	T281	AR	0.02	µg/l	U	001-015
Cr (Dissolved)	T281	AR	1	µg/l	U	001-015
Chromium (trivalent)	T85	AR	3	µg/l	N	001-015
Chromium VI	T686	AR	3	µg/l	U	001-015
Cu (Dissolved)	T281	AR	0.5	µg/l	U	001-015
Pb (Dissolved)	T281	AR	0.3	µg/l	U	001-015
Hg (Dissolved)	T281	AR	0.05	µg/l	U	001-015
Ni (Dissolved)	T281	AR	1	µg/l	U	001-015
Se (Dissolved)	T281	AR	0.5	µg/l	U	001-015
Zn (Dissolved)	T281	AR	2	µg/l	U	001-015
Calcium	T6	AR	100	µg/l	N	001-015
Magnesium	T6	AR	100	µg/l	N	001-015
Potassium	T6	AR	100	µg/l	N	001-015
Sodium	T6	AR	100	µg/l	N	001-015
Fe (Dissolved)	T373	AR	10	µg/l	U	001-015
Fe (Total)	T303	AR	10	µg/l	U	001-015
Mn (Dissolved)	T373	AR	10	µg/l	U	001-015

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Mn (Total)	T303	AR	10	µg/l	U	001-015
Nitrate	T686	AR	0.5	mg/l	U	001-015
Nitrite	T686	AR	0.1	mg/l	U	001-015
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	001-015
Sulphate	T686	AR	0.5	mg/l	U	001-015
Sulphide	T4	AR	0.05	mg/l	N	001-015
Sulphur (total)	T65	AR	0.01	mg/l	N	001-015
Chloride	T686	AR	1	mg/l	U	001-015
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	001-015
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	001-015
Suspended Solids (Total)	T2	AR	10	mg/l	N	001-015
Electrical Conductivity	T7	AR	10	µS/cm	N	001-015
Total Phenols	T16	AR	0.5	µg/l	U	001-015
Cyanide(Total)	T220	AR	10	µg/l	WU	001-015
Cyanide(free)	T220	AR	10	µg/l	WN	001-015
Acenaphthene	T149	AR	0.01	µg/l	U	001-015
Acenaphthylene	T149	AR	0.01	µg/l	U	001-015
Anthracene	T149	AR	0.01	µg/l	U	001-015
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	001-015
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	001-015
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	001-015
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	001-015
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	001-015
Chrysene	T149	AR	0.01	µg/l	U	001-015
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	001-015
Fluoranthene	T149	AR	0.01	µg/l	U	001-015
Fluorene	T149	AR	0.01	µg/l	U	001-015
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	001-015
Naphthalene	T149	AR	0.01	µg/l	U	001-015
Phenanthrene	T149	AR	0.01	µg/l	U	001-015
Pyrene	T149	AR	0.01	µg/l	U	001-015
PAH(total)	T149	AR	0.01	µg/l	U	001-015
TPH (C8-C10) DW	T81	AR	10	µg/l	U	001-015
TPH (C10-C12) DW	T81	AR	10	µg/l	U	001-015
TPH (C12-C16) DW	T81	AR	10	µg/l	U	001-015
TPH (C16-C21) DW	T81	AR	10	µg/l	U	001-015
TPH (C21-C35) DW	T81	AR	10	µg/l	U	001-015
TPH (C35-C40)	T81	AR	10	µg/l	N	001-015
TPH (C8 - C40)	T85	AR	10	µg/l	N	001-015

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Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 357426-2

Date of Report: 06-Nov-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 55W and 56W
Date Job Received at SAL: 22-Oct-2013
Date Analysis Started: 25-Oct-2013
Date Analysis Completed: 06-Nov-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

[redacted]

SAL Reference: 357426
Project Site: A63 Castle St - 55W and 56W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**357426 001**	**357426 002**	**357426 003**	**357426 004**	**357426 005**	**357426 006**	**357426 007**	**357426 008**
				Customer Sample Reference	**BH02**	**BH04**	**BH07**	**BH11**	**BH12**	**BH13**	**BH19A**	**BH20**
				Date Sampled	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
pH	T7	AR			**7.1**	**7.2**	**7.5**	**11.0**	**8.0**	**7.0**	**7.8**	**7.3**
As (Dissolved)	T281	AR	0.2	µg/l	**97**	**66**	**30**	**23**	**18**	**52**	**24**	**44**
Boron	T6	AR	10	µg/l	**2000**	**530**	**1600**	**540**	**1300**	**250**	**1600**	**750**
Cd (Dissolved)	T281	AR	0.02	µg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	**0.05**	**0.07**
Cr (Dissolved)	T281	AR	1	µg/l	**7**	**6**	**7**	**2**	**5**	**7**	**11**	**6**
Chromium (trivalent)	T85	AR	3	µg/l	**7**	**6**	**7**	<3	**5**	**7**	**11**	**6**
Chromium VI	T686	AR	3	µg/l	<3	<3	<3	<3	<3	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**390**	**680**	**17**	**38**	**4.4**	**55**	**16**	**110**
Pb (Dissolved)	T281	AR	0.3	µg/l	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l	**25**	**17**	**9**	**30**	**9**	**13**	**10**	**10**
Se (Dissolved)	T281	AR	0.5	µg/l	**110**	**86**	**25**	**44**	**5.4**	**80**	**25**	**68**
Zn (Dissolved)	T281	AR	2	µg/l	**5**	**3**	<2	<2	<2	**3**	**5**	**19**
Calcium	T6	AR	100	µg/l	**220000**	**250000**	**70000**	**130000**	**55000**	**230000**	**47000**	**210000**
Magnesium	T6	AR	100	µg/l	**580000**	**330000**	**120000**	**9300**	**68000**	**270000**	**110000**	**290000**
Potassium	T6	AR	100	µg/l	**240000**	**86000**	**96000**	**110000**	**93000**	**75000**	**89000**	**95000**
Sodium	T6	AR	100	µg/l	**4600000**	**3500000**	**1100000**	**1700000**	**310000**	**3200000**	**1200000**	**2800000**
Fe (Dissolved)	T373	AR	10	µg/l	**12**	**11000**	**59**	<10	<10	<10	**160**	**12**
Fe (Total)	T303	AR	10	µg/l	**6500**	**130000**	**50000**	**2700**	**99000**	**13000**	**35000**	**36000**
Mn (Dissolved)	T373	AR	10	µg/l	**1300**	**2000**	**1100**	<10	**460**	**890**	**360**	**1700**
Mn (Total)	T303	AR	10	µg/l	**1400**	**20000**	**30000**	**190**	**6100**	**970**	**1800**	**2300**
Nitrate	T686	AR	0.5	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrite	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulphate	T686	AR	0.5	mg/l	**1100**	**35**	**2.0**	**480**	**170**	**6.9**	**1.8**	**340**
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**480**	**120**	**9.1**	**130**	**84**	**19**	**31**	**170**
Chloride	T686	AR	1	mg/l	**7800**	**5300**	**1700**	**4300**	**170**	**4600**	**1300**	**4200**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**1.4**	**7.4**	**15**	**7.1**	**9.6**	**6.5**	**12**	**4.9**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**1.8**	**9.6**	**19**	**9.1**	**12**	**8.3**	**15**	**6.3**
Suspended Solids (Total)	T2	AR	10	mg/l	**120**	**61000**	**80000**	**360**	**4700**	**77**	**340**	**360**
Electrical Conductivity	T7	AR	10	µS/cm	**23000**	**18000**	**6900**	**9400**	**2300**	**17000**	**6900**	**11000**
Total Phenols	T16	AR	0.5	µg/l	<0.5	**2.9**	**1.5**	**4.4**	<0.5	**0.7**	**5.8**	<0.5
Cyanide(Total)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10
Cyanide(free)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l	<0.01	**0.04**	**0.09**	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	T149	AR	0.01	µg/l	<0.01	**0.03**	**0.06**	**0.02**	<0.01	<0.01	<0.01	<0.01
Anthracene	T149	AR	0.01	µg/l	<0.01	**0.03**	**0.05**	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10	<0.01	(110) <0.10	(110) <0.10	<0.01	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10	<0.01	(110) <0.10	(110) <0.10	<0.01	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10	<0.01	(110) <0.10	(110) <0.10	<0.01	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10	<0.01	(110) <0.10	(110) <0.10	<0.01	<0.01
Chrysene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10	<0.01	(110) <0.10	(110) <0.10	<0.01	<0.01
Fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.03**	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	T149	AR	0.01	µg/l	<0.01	**0.05**	**0.09**	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10	<0.01	(110) <0.10	(110) <0.10	<0.01	<0.01
Naphthalene	T149	AR	0.01	µg/l	**0.06**	**0.04**	**0.09**	**0.26**	**0.03**	**0.11**	**0.23**	<0.01
Phenanthrene	T149	AR	0.01	µg/l	<0.01	**0.02**	**0.08**	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.03**	<0.01	<0.01	<0.01	<0.01	<0.01
PAH(total)	T149	AR	0.01	µg/l	(110) <0.10	**0.21**	**0.52**	**0.28**	(110) <0.10	**0.11**	**0.23**	<0.01
TPH (C8-C10) DW	T81	AR	10	µg/l	<10	<10	-	<10	<10	<10	-	-
TPH (C10-C12) DW	T81	AR	10	µg/l	<10	<10	-	**13**	<10	<10	-	-
TPH (C12-C16) DW	T81	AR	10	µg/l	<10	<10	-	<10	**11**	<10	-	-
TPH (C16-C21) DW	T81	AR	10	µg/l	<10	**25**	-	<10	**42**	**15**	-	-
TPH (C21-C35) DW	T81	AR	10	µg/l	<10	**34**	-	**31**	**51**	**10**	-	-

SAL Reference: 357426
Project Site: A63 Castle St - 55W and 56W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**357426 001**	**357426 002**	**357426 003**	**357426 004**	**357426 005**	**357426 006**	**357426 007**	**357426 008**
				Customer Sample Reference	**BH02**	**BH04**	**BH07**	**BH11**	**BH12**	**BH13**	**BH19A**	**BH20**
				Date Sampled	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
TPH (C35-C40)	T81	AR	10	µg/l	<10	<10	-	<10	<10	<10	-	-
TPH (C8 - C40)	T85	AR	10	µg/l	<10	**50**	-	**40**	**100**	**30**	-	-
TPH (C5-C6 aliphatic)	T215	AR	10	µg/l	-	-	<10	-	-	-	<10	<10
TPH (C6-C8 aliphatic)	T215	AR	10	µg/l	-	-	<10	-	-	-	<10	<10
TPH (C8-C10 aliphatic)	T215	AR	10	µg/l	-	-	<10	-	-	-	<10	<10
TPH DW(C10-C12 aliphatic)	T81	AR	10	µg/l	-	-	**10**	-	-	-	<10	<10
TPH DW(C12-C16 aliphatic)	T81	AR	10	µg/l	-	-	**30**	-	-	-	**10**	**10**
TPH DW(C16-C21 aliphatic)	T81	AR	10	µg/l	-	-	**60**	-	-	-	**10**	**10**
TPH DW(C21-C35 aliphatic)	T81	AR	10	µg/l	-	-	**110**	-	-	-	**20**	**10**
TPH (C35-C44 aliphatic)	T81	AR	10	µg/l	-	-	<10	-	-	-	<10	<10
TPH (Aliphatic) total	T85	AR		µg/l	-	-	**210**	-	-	-	**40**	**30**
TPH (C6-C7 aromatic)	T215	AR	10	µg/l	-	-	<10	-	-	-	<10	<10
TPH (C7-C8 aromatic)	T215	AR	10	µg/l	-	-	<10	-	-	-	<10	<10
TPH (C8-C10 aromatic)	T215	AR	10	µg/l	-	-	<10	-	-	-	<10	<10
TPH DW(C10-C12 aromatic)	T81	AR	10	µg/l	-	-	<10	-	-	-	<10	<10
TPH DW(C12-C16 aromatic)	T81	AR	10	µg/l	-	-	**30**	-	-	-	<10	**10**
TPH DW(C16-C21 aromatic)	T81	AR	10	µg/l	-	-	**40**	-	-	-	**10**	**10**
TPH DW(C21-C35 aromatic)	T81	AR	10	µg/l	-	-	**20**	-	-	-	<10	<10
TPH (C35-C44 aromatic)	T81	AR	10	µg/l	-	-	<10	-	-	-	<10	<10
TPH (Aromatic) total	T85	AR		µg/l	-	-	**90**	-	-	-	**10**	**20**
TPH (Aliphatic+Aromatic) (sum)	T85	AR		µg/l	-	-	**300**	-	-	-	**50**	**50**
Benzene	T54	AR	1	µg/l	-	-	<1	-	-	-	<1	<1
EthylBenzene	T54	AR	1	µg/l	-	-	<1	-	-	-	<1	<1
Toluene	T54	AR	1	µg/l	-	-	<1	-	-	-	<1	<1
M/P Xylene	T54	AR	1	µg/l	-	-	<1	-	-	-	<1	<1
O Xylene	T54	AR	1	µg/l	-	-	<1	-	-	-	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	-	-	<1	-	-	-	<1	<1

SAL Reference: 357426
Project Site: A63 Castle St - 55W and 56W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

					SAL Reference	**357426 009**	**357426 010**	**357426 011**	**357426 012**	**357426 013**	**357426 014**	**357426 015**	**357426 016**
					Customer Sample Reference	**BH21**	**WS10A**	**BH34**	**BH32**	**BH33**	**D3**	**WS13**	**BH37**
					Date Sampled	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
pH	T7	AR				**7.8**	**7.5**	**7.3**	**7.8**	**7.1**	**7.1**	**7.6**	**8.0**
As (Dissolved)	T281	AR	0.2	µg/l		**41**	**8.7**	**73**	**32**	**40**	**59**	**64**	**18**
Boron	T6	AR	10	µg/l		**1000**	**920**	**1900**	**1000**	**840**	**2000**	**1600**	**800**
Cd (Dissolved)	T281	AR	0.02	µg/l		**0.03**	<0.02	<0.02	<0.02	**0.04**	<0.02	<0.02	**0.04**
Cr (Dissolved)	T281	AR	1	µg/l		**7**	**6**	**6**	**5**	**10**	**5**	**6**	**4**
Chromium (trivalent)	T85	AR	3	µg/l		**7**	**6**	**6**	**5**	**10**	**5**	**6**	**4**
Chromium VI	T686	AR	3	µg/l		<3	<3	<3	<3	<3	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l		**17**	**1.5**	**72**	**8.6**	**55**	**220**	**9.7**	**14**
Pb (Dissolved)	T281	AR	0.3	µg/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l		<0.05	**7.2**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l		**5**	**7**	**56**	**5**	**10**	**28**	**6**	**5**
Se (Dissolved)	T281	AR	0.5	µg/l		**12**	**1.9**	**120**	**11**	**86**	**130**	**8.2**	**12**
Zn (Dissolved)	T281	AR	2	µg/l		**3**	<2	**3**	<2	**4**	**3**	<2	**10**
Calcium	T6	AR	100	µg/l		**94000**	**140000**	**220000**	**90000**	**200000**	**220000**	**110000**	**76000**
Magnesium	T6	AR	100	µg/l		**83000**	**100000**	**550000**	**100000**	**350000**	**560000**	**140000**	**73000**
Potassium	T6	AR	100	µg/l		**77000**	**96000**	**230000**	**85000**	**110000**	**230000**	**100000**	**88000**
Sodium	T6	AR	100	µg/l		**610000**	**95000**	**4200000**	**580000**	**3100000**	**4500000**	**410000**	**570000**
Fe (Dissolved)	T373	AR	10	µg/l		**38**	**2400**	**19**	**33**	**62**	**56**	**1200**	**13**
Fe (Total)	T303	AR	10	µg/l		**25000**	**1200000**	**6400**	**160000**	**54000**	**6500**	**120000**	**37000**
Mn (Dissolved)	T373	AR	10	µg/l		**610**	**650**	**350**	**610**	**800**	**1400**	**930**	**530**
Mn (Total)	T303	AR	10	µg/l		**1300**	**46000**	**360**	**6600**	**1100**	**1400**	**4600**	**1700**
Nitrate	T686	AR	0.5	mg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrite	T686	AR	0.1	mg/l		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulphate	T686	AR	0.5	mg/l		**2.2**	**18**	**1000**	**300**	**1.8**	**1100**	<0.5	**6.7**
Sulphide	T4	AR	0.05	mg/l		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l		**17**	**31**	**450**	**130**	**5.4**	**470**	**8.4**	**52**
Chloride	T686	AR	1	mg/l		**800**	**140**	**7300**	**550**	**4000**	**7300**	**33**	**40**
Ammoniacal nitrogen	T179	AR	0.015	mg/l		**7.4**	**1.9**	**1.4**	**8.2**	**20**	**1.8**	**11**	**3.2**
Ammonia expressed as NH4	T179	AR	0.019	mg/l		**9.6**	**2.5**	**1.8**	**10**	**26**	**2.3**	**14**	**4.1**
Suspended Solids (Total)	T2	AR	10	mg/l		**170**	**37000**	**35**	**4100**	**440**	**77**	**8800**	**2500**
Electrical Conductivity	T7	AR	10	µS/cm		**4000**	**1700**	**23000**	**4000**	**16000**	**23000**	**3800**	**4000**
Total Phenols	T16	AR	0.5	µg/l		**0.8**	**1.2**	<0.5	<0.5	**0.7**	<0.5	**1.6**	<0.5
Cyanide(Total)	T220	AR	10	µg/l		<10	<10	<10	<10	<10	<10	<10	<10
Cyanide(free)	T220	AR	10	µg/l		<10	<10	<10	<10	<10	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l		<0.01	**0.04**	**0.02**	**0.02**	**0.01**	<0.01	**0.03**	<0.01
Acenaphthylene	T149	AR	0.01	µg/l		<0.01	**0.02**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	T149	AR	0.01	µg/l		<0.01	**0.04**	<0.01	<0.01	<0.01	<0.01	**0.07**	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.08**	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	(110) <0.10	(110) <0.10	(110) <0.10	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	(110) <0.10	(110) <0.10	(110) <0.10	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	(110) <0.10	(110) <0.10	(110) <0.10	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	(110) <0.10	(110) <0.10	(110) <0.10	<0.01
Chrysene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.05**	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	(110) <0.10	(110) <0.10	(110) <0.10	<0.01
Fluoranthene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.20**	<0.01
Fluorene	T149	AR	0.01	µg/l		<0.01	**0.02**	<0.01	<0.01	<0.01	<0.01	**0.04**	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	(110) <0.10	(110) <0.10	(110) <0.10	<0.01
Naphthalene	T149	AR	0.01	µg/l		**0.13**	**0.05**	**0.07**	**0.06**	**0.07**	**0.08**	**0.39**	<0.01
Phenanthrene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.14**	<0.01
Pyrene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.17**	<0.01
PAH(total)	T149	AR	0.01	µg/l		**0.13**	**0.17**	**0.09**	**0.08**	(110) <0.10	(110) <0.10	**0.17**	<0.01
TPH (C8-C10) DW	T81	AR	10	µg/l		-	<10	<10	<10	<10	<10	-	<10
TPH (C10-C12) DW	T81	AR	10	µg/l		-	<10	<10	<10	<10	<10	-	<10
TPH (C12-C16) DW	T81	AR	10	µg/l		-	**39**	**58**	<10	<10	<10	-	**15**
TPH (C16-C21) DW	T81	AR	10	µg/l		-	**110**	**11**	**18**	<10	**24**	-	**54**
TPH (C21-C35) DW	T81	AR	10	µg/l		-	**170**	<10	**31**	<10	<10	-	**50**

SAL Reference: 357426
Project Site: A63 Castle St - 55W and 56W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**357426 009**	**357426 010**	**357426 011**	**357426 012**	**357426 013**	**357426 014**	**357426 015**	**357426 016**
				Customer Sample Reference	**BH21**	**WS10A**	**BH34**	**BH32**	**BH33**	**D3**	**WS13**	**BH37**
				Date Sampled	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
TPH (C35-C40)	T81	AR	10	µg/l	-	<10	<10	<10	<10	<10	-	<10
TPH (C8 - C40)	T85	AR	10	µg/l	-	**320**	**70**	**50**	<10	**20**	-	**110**
TPH (C5-C6 aliphatic)	T215	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH (C6-C8 aliphatic)	T215	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH (C8-C10 aliphatic)	T215	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH DW(C10-C12 aliphatic)	T81	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH DW(C12-C16 aliphatic)	T81	AR	10	µg/l	**10**	-	-	-	-	-	**10**	-
TPH DW(C16-C21 aliphatic)	T81	AR	10	µg/l	**10**	-	-	-	-	-	**30**	-
TPH DW(C21-C35 aliphatic)	T81	AR	10	µg/l	**30**	-	-	-	-	-	**10**	-
TPH (C35-C44 aliphatic)	T81	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH (Aliphatic) total	T85	AR		µg/l	**50**	-	-	-	-	-	**50**	-
TPH (C6-C7 aromatic)	T215	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH (C7-C8 aromatic)	T215	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH (C8-C10 aromatic)	T215	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH DW(C10-C12 aromatic)	T81	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH DW(C12-C16 aromatic)	T81	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH DW(C16-C21 aromatic)	T81	AR	10	µg/l	<10	-	-	-	-	-	**10**	-
TPH DW(C21-C35 aromatic)	T81	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH (C35-C44 aromatic)	T81	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH (Aromatic) total	T85	AR		µg/l	N.D.	-	-	-	-	-	**10**	-
TPH (Aliphatic+Aromatic) (sum)	T85	AR		µg/l	**50**	-	-	-	-	-	**60**	-
Benzene	T54	AR	1	µg/l	<1	-	-	-	-	-	<1	<1
EthylBenzene	T54	AR	1	µg/l	<1	-	-	-	-	-	<1	<1
Toluene	T54	AR	1	µg/l	<1	-	-	-	-	-	<1	<1
M/P Xylene	T54	AR	1	µg/l	<1	-	-	-	-	-	<1	<1
O Xylene	T54	AR	1	µg/l	<1	-	-	-	-	-	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	-	-	-	-	-	<1	<1

SAL Reference: 357426
Project Site: A63 Castle St - 55W and 56W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**357426 017**	**357426 018**	**357426 019**	**357426 020**	**357426 021**	**357426 022**	**357426 023**
				Customer Sample Reference	**BH40A**	**BH35(DEEP)**	**BH35(SHAL LOW)**	**BH38**	**BH44**	**BH46**	**D4**
				Date Sampled	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
pH	T7	AR			**7.5**	**7.3**	**7.7**	**7.9**	**7.4**	**7.7**	**7.5**
As (Dissolved)	T281	AR	0.2	µg/l	**11**	**43**	**22**	**38**	**14**	**18**	**20**
Boron	T6	AR	10	µg/l	**750**	**1300**	**800**	**1300**	**800**	**1100**	**1000**
Cd (Dissolved)	T281	AR	0.02	µg/l	<0.02	**0.09**	<0.02	<0.02	<0.02	**0.09**	<0.02
Cr (Dissolved)	T281	AR	1	µg/l	**3**	**9**	**4**	**5**	**4**	**8**	**8**
Chromium (trivalent)	T85	AR	3	µg/l	**3**	**9**	**4**	**5**	**4**	**8**	**8**
Chromium VI	T686	AR	3	µg/l	<3	<3	<3	<3	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**10**	**82**	**18**	**9.9**	**21**	**22**	**20**
Pb (Dissolved)	T281	AR	0.3	µg/l	<0.3	**0.5**	<0.3	<0.3	<0.3	<0.3	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l	**7**	**22**	**8**	**4**	**4**	**12**	**5**
Se (Dissolved)	T281	AR	0.5	µg/l	**18**	**79**	**25**	**12**	**13**	**29**	**29**
Zn (Dissolved)	T281	AR	2	µg/l	<2	**30**	<2	<2	<2	**8**	<2
Calcium	T6	AR	100	µg/l	**360000**	**160000**	**62000**	**95000**	**180000**	**160000**	**150000**
Magnesium	T6	AR	100	µg/l	**130000**	**310000**	**100000**	**110000**	**150000**	**150000**	**150000**
Potassium	T6	AR	100	µg/l	**140000**	**99000**	**67000**	**130000**	**120000**	**120000**	**110000**
Sodium	T6	AR	100	µg/l	**380000**	**2800000**	**940000**	**500000**	**310000**	**850000**	**850000**
Fe (Dissolved)	T373	AR	10	µg/l	**12**	**17**	**79**	**88**	**6900**	**34**	**74**
Fe (Total)	T303	AR	10	µg/l	**38000**	**93000**	**210000**	**8000**	**21000**	**210000**	**54000**
Mn (Dissolved)	T373	AR	10	µg/l	**600**	**560**	**260**	**350**	**790**	**390**	**450**
Mn (Total)	T303	AR	10	µg/l	**740**	**4100**	**6000**	**440**	**920**	**6700**	**1700**
Nitrate	T686	AR	0.5	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrite	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulphate	T686	AR	0.5	mg/l	**11**	<0.5	<0.5	<0.5	**4.1**	<0.5	<0.5
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**120**	**2.9**	**9.6**	**31**	**43**	**11**	**7.2**
Chloride	T686	AR	1	mg/l	**53**	**160**	**44**	**33**	**36**	**63**	**66**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**4.0**	**13**	**6.7**	**13**	**8.8**	**15**	**15**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**5.2**	**17**	**8.7**	**16**	**11**	**19**	**19**
Suspended Solids (Total)	T2	AR	10	mg/l	**160**	**3700**	**3600**	**34**	**290**	**750**	**2200**
Electrical Conductivity	T7	AR	10	µS/cm	**5300**	**13000**	**5800**	**4000**	**4000**	**6400**	**6300**
Total Phenols	T16	AR	0.5	µg/l	<0.5	<0.5	<0.5	<0.5	**3.1**	**0.5**	**0.7**
Cyanide(Total)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10
Cyanide(free)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.03**	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	**0.01**	<0.01	<0.01	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	**0.06**	<0.01	<0.01	<0.01
Fluorene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.02**	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Naphthalene	T149	AR	0.01	µg/l	<0.01	**0.02**	**0.04**	**0.07**	**0.10**	**0.16**	**0.15**
Phenanthrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	**0.06**	<0.01	<0.01	<0.01
Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	**0.06**	<0.01	<0.01	<0.01
PAH(total)	T149	AR	0.01	µg/l	<0.01	**0.02**	**0.09**	**0.26**	**0.10**	**0.16**	**0.15**
TPH (C8-C10) DW	T81	AR	10	µg/l	-	-	-	<10	<10	<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l	-	-	-	<10	<10	<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l	-	-	-	<10	<10	<10	<10
TPH (C16-C21) DW	T81	AR	10	µg/l	-	-	-	**31**	<10	**23**	**45**
TPH (C21-C35) DW	T81	AR	10	µg/l	-	-	-	**51**	<10	**67**	**120**

SAL Reference: 357426
Project Site: A63 Castle St - 55W and 56W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**357426 017**	**357426 018**	**357426 019**	**357426 020**	**357426 021**	**357426 022**	**357426 023**
				Customer Sample Reference	**BH40A**	**BH35(DEEP)**	**BH35(SHALLOW)**	**BH38**	**BH44**	**BH46**	**D4**
				Date Sampled	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
TPH (C35-C40)	T81	AR	10	µg/l	-	-	-	<10	<10	<10	**15**
TPH (C8 - C40)	T85	AR	10	µg/l	-	-	-	**80**	<10	**90**	**180**
TPH (C5-C6 aliphatic)	T215	AR	10	µg/l	<10	<10	<10	-	-	-	-
TPH (C6-C8 aliphatic)	T215	AR	10	µg/l	<10	<10	<10	-	-	-	-
TPH (C8-C10 aliphatic)	T215	AR	10	µg/l	<10	<10	<10	-	-	-	-
TPH DW(C10-C12 aliphatic)	T81	AR	10	µg/l	<10	<10	<10	-	-	-	-
TPH DW(C12-C16 aliphatic)	T81	AR	10	µg/l	**10**	**50**	**20**	-	-	-	-
TPH DW(C16-C21 aliphatic)	T81	AR	10	µg/l	**20**	**20**	**10**	-	-	-	-
TPH DW(C21-C35 aliphatic)	T81	AR	10	µg/l	**30**	**20**	**30**	-	-	-	-
TPH (C35-C44 aliphatic)	T81	AR	10	µg/l	<10	<10	<10	-	-	-	-
TPH (Aliphatic) total	T85	AR		µg/l	**60**	**90**	**60**	-	-	-	-
TPH (C6-C7 aromatic)	T215	AR	10	µg/l	<10	<10	<10	-	-	-	-
TPH (C7-C8 aromatic)	T215	AR	10	µg/l	<10	<10	<10	-	-	-	-
TPH (C8-C10 aromatic)	T215	AR	10	µg/l	<10	<10	<10	-	-	-	-
TPH DW(C10-C12 aromatic)	T81	AR	10	µg/l	<10	<10	<10	-	-	-	-
TPH DW(C12-C16 aromatic)	T81	AR	10	µg/l	**10**	<10	**20**	-	-	-	-
TPH DW(C16-C21 aromatic)	T81	AR	10	µg/l	<10	<10	**20**	-	-	-	-
TPH DW(C21-C35 aromatic)	T81	AR	10	µg/l	<10	<10	<10	-	-	-	-
TPH (C35-C44 aromatic)	T81	AR	10	µg/l	<10	<10	<10	-	-	-	-
TPH (Aromatic) total	T85	AR		µg/l	**10**	N.D.	**40**	-	-	-	-
TPH (Aliphatic+Aromatic) (sum)	T85	AR		µg/l	**70**	**90**	**100**	-	-	-	-
Benzene	T54	AR	1	µg/l	<1	<1	<1	-	-	-	-
EthylBenzene	T54	AR	1	µg/l	<1	<1	<1	-	-	-	-
Toluene	T54	AR	1	µg/l	<1	<1	<1	-	-	-	-
M/P Xylene	T54	AR	1	µg/l	<1	<1	<1	-	-	-	-
O Xylene	T54	AR	1	µg/l	<1	<1	<1	-	-	-	-
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	<1	<1	-	-	-	-

SAL Reference: 357426
Project Site: A63 Castle St - 55W and 56W
Customer Reference: 112630

Water Analysed as Water
Volatile Organic Compounds (USEPA 624)

	SAL Reference	357426 003	357426 007	357426 008	357426 009	357426 015	357426 016	357426 018	357426 019
	Customer Sample Reference	BH07	BH19A	BH20	BH21	WS13	BH37	BH35(DEEP)	BH35(SHALLOW)
	Date Sampled	21-OCT-2013	21-OCT-2013	21-OCT-2013	21-OCT-2013	22-OCT-2013	22-OCT-2013	22-OCT-2013	22-OCT-2013
Determinand	**Method** / **Test Sample** / **LOD** / **Units**								
1,1,1,2-Tetrachloroethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethylene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethylene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Chlorodibromomethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,2-Dichloroethylene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-Dichloropropene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Dichloromethane	T54 AR 50 µg/l	<50	<50	<50	<50	<50	<50	<50	<50
EthylBenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Isopropyl benzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
M/P Xylene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
n-Propylbenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
O Xylene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
S-Butylbenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
T-Butylbenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-Dichloroethene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-Dichloropropene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	T215 AR 0.5 µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

SAL Reference: 357426
Project Site: A63 Castle St - 55W and 56W
Customer Reference: 112630

Water Analysed as Water

Semi-Volatile Organic Compounds (USEPA 625) Low Level

				SAL Reference	**357426 003**	**357426 007**	**357426 008**	**357426 009**	**357426 015**	**357426 016**	**357426 018**	**357426 019**
				Customer Sample Reference	**BH07**	**BH19A**	**BH20**	**BH21**	**WS13**	**BH37**	**BH35(DEEP)**	**BH35(SHALLOW)**
				Date Sampled	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
1,2,4-Trichlorobenzene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dichlorophenol	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dimethylphenol	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dinitrophenol	T71	AR	1	µg/l	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5
2,4-Dinitrotoluene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2,6-Dinitrotoluene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2-Chloronaphthalene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorophenol	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2-methyl phenol	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2-Nitroaniline	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2-Nitrophenol	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
3-Nitroaniline	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
3/4-Methylphenol	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Bromophenyl phenylether	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloroaniline	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorophenyl phenylether	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitroaniline	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitrophenol	T71	AR	1	µg/l	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	<1	(36) <5	(36) <5
Acenaphthene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Acenaphthylene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Anthracene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Azobenzene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)Anthracene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)Pyrene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(b/k)Fluoranthene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(ghi)Perylene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Bis (2-chloroethoxy) methane	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Bis (2-chloroethyl) ether	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Bis (2-chloroisopropyl) ether	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Bis (2-ethylhexyl)phthalate	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzylphthalate	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Carbazole	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Chrysene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Di-n-butylphthalate	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Di-n-octylphthalate	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzo(ah)Anthracene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzofuran	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl phthalate	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Dimethyl phthalate	T71	AR	1	µg/l	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	<1	(36) <5	(36) <5
Fluoranthene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Fluorene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobenzene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	T71	AR	1	µg/l	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5
Hexachlorocyclopentadiene	T71	AR	1	µg/l	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5
Hexachloroethane	T71	AR	1	µg/l	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5
Indeno(123-cd)Pyrene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Isophorone	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Nitrobenzene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Pentachlorophenol	T71	AR	1	µg/l	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	<1	(36) <5	(36) <5
Phenanthrene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Phenol	T71	AR	1	µg/l	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5

SAL Reference: 357426
Project Site: A63 Castle St - 55W and 56W
Customer Reference: 112630

Water Analysed as Water
Semi-Volatile Organic Compounds (USEPA 625) Low Level

SAL Reference	357426 003	357426 007	357426 008	357426 009	357426 015	357426 016	357426 018	357426 019
Customer Sample Reference	BH07	BH19A	BH20	BH21	WS13	BH37	BH35(DEEP)	BH35(SHALLOW)
Date Sampled	21-OCT-2013	21-OCT-2013	21-OCT-2013	21-OCT-2013	22-OCT-2013	22-OCT-2013	22-OCT-2013	22-OCT-2013

Determinand	Method	Test Sample	LOD	Units								
Pyrene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1

SAL Reference: 357426
Project Site: A63 Castle St - 55W and 56W
Customer Reference: 112630

Water Analysed as Water
PCBs EC7 congeners(28,52,101,118,138,153,180)

SAL Reference	357426 003	357426 007	357426 008	357426 009	357426 020
Customer Sample Reference	BH07	BH19A	BH20	BH21	BH38
Date Sampled	21-OCT-2013	21-OCT-2013	21-OCT-2013	21-OCT-2013	22-OCT-2013

Determinand	Method	Test Sample	LOD	Units					
PCB BZ#101	T1	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#118	T16	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#138	T1	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#153	T1	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#180	T1	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#28	T1	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#52	T1	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005

Index to symbols used in 357426-2

Value	Description
AR	As Received
N.D.	Not Detected
36	LOD Raised due to low Matrix spike recovery
110	LOD raised due to low internal standard recovery.
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T2	Grav
T1	GC/MS (HR)
T373	ICP/OES (Filtered)
T281	ICP/MS (Filtered)
T7	Probe
T179	Colorimetry (XION 500)
T71	GC/MS (1l ext.)
T4	Colorimetry
T54	GC/MS (Headspace)
T220	Colorimetry (SD)
T6	ICP/OES
T16	GC/MS
T65	ICP/OES (Preconc.)
T81	GC/FID (LV)
T149	GC/MS (SIR)
T303	ICP-OES (Total)
T85	Calc
T215	GC/MS (Headspace)(LV)
T686	Discrete Analyser

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
pH	T7	AR			U	001-023
As (Dissolved)	T281	AR	0.2	µg/l	U	001-023
Boron	T6	AR	10	µg/l	N	001-023
Cd (Dissolved)	T281	AR	0.02	µg/l	U	001-023
Cr (Dissolved)	T281	AR	1	µg/l	U	001-023
Chromium (trivalent)	T85	AR	3	µg/l	N	001-023
Chromium VI	T686	AR	3	µg/l	U	001-023
Cu (Dissolved)	T281	AR	0.5	µg/l	U	001-023
Pb (Dissolved)	T281	AR	0.3	µg/l	U	001-023
Hg (Dissolved)	T281	AR	0.05	µg/l	U	001-023
Ni (Dissolved)	T281	AR	1	µg/l	U	001-023
Se (Dissolved)	T281	AR	0.5	µg/l	U	001-023
Zn (Dissolved)	T281	AR	2	µg/l	U	001-023
Calcium	T6	AR	100	µg/l	N	001-023
Magnesium	T6	AR	100	µg/l	N	001-023
Potassium	T6	AR	100	µg/l	N	001-023
Sodium	T6	AR	100	µg/l	N	001-023
Fe (Dissolved)	T373	AR	10	µg/l	U	001-023
Fe (Total)	T303	AR	10	µg/l	U	001-023
Mn (Dissolved)	T373	AR	10	µg/l	U	001-023
Mn (Total)	T303	AR	10	µg/l	U	001-023
Nitrate	T686	AR	0.5	mg/l	U	001-023
Nitrite	T686	AR	0.1	mg/l	U	001-023
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	001-023
Sulphate	T686	AR	0.5	mg/l	U	001-023
Sulphide	T4	AR	0.05	mg/l	N	001-023
Sulphur (total)	T65	AR	0.01	mg/l	N	001-023
Chloride	T686	AR	1	mg/l	U	001-023
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	001-023
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	001-023
Suspended Solids (Total)	T2	AR	10	mg/l	N	001-023
Electrical Conductivity	T7	AR	10	µS/cm	N	001-023
Total Phenols	T16	AR	0.5	µg/l	U	001-023
Cyanide(Total)	T220	AR	10	µg/l	WU	001-023
Cyanide(free)	T220	AR	10	µg/l	WN	001-023
Acenaphthene	T149	AR	0.01	µg/l	U	001-023
Acenaphthylene	T149	AR	0.01	µg/l	U	001-023
Anthracene	T149	AR	0.01	µg/l	U	001-023
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	001-023
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	001-023
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	001-023
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	001-023
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	001-023
Chrysene	T149	AR	0.01	µg/l	U	001-023
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	001-023
Fluoranthene	T149	AR	0.01	µg/l	U	001-023
Fluorene	T149	AR	0.01	µg/l	U	001-023
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	001-023
Naphthalene	T149	AR	0.01	µg/l	U	001-023
Phenanthrene	T149	AR	0.01	µg/l	U	001-023
Pyrene	T149	AR	0.01	µg/l	U	001-023
PAH(total)	T149	AR	0.01	µg/l	U	001-023
TPH (C8-C10) DW	T81	AR	10	µg/l	U	001-002,004-006,010-014,016,020-023
TPH (C10-C12) DW	T81	AR	10	µg/l	U	001-002,004-006,010-014,016,020-023
TPH (C12-C16) DW	T81	AR	10	µg/l	U	001-002,004-006,010-014,016,020-023
TPH (C16-C21) DW	T81	AR	10	µg/l	U	001-002,004-006,010-014,016,020-023
TPH (C21-C35) DW	T81	AR	10	µg/l	U	001-002,004-006,010-014,016,020-023
TPH (C35-C40)	T81	AR	10	µg/l	N	001-002,004-006,010-014,016,020-023
TPH (C8 - C40)	T85	AR	10	µg/l	N	001-002,004-006,010-014,016,020-023
TPH (C5-C6 aliphatic)	T215	AR	10	µg/l	N	003,007-009,015,017-019
TPH (C6-C8 aliphatic)	T215	AR	10	µg/l	N	003,007-009,015,017-019
TPH (C8-C10 aliphatic)	T215	AR	10	µg/l	N	003,007-009,015,017-019
TPH DW(C10-C12 aliphatic)	T81	AR	10	µg/l	N	003,007-009,015,017-019
TPH DW(C12-C16 aliphatic)	T81	AR	10	µg/l	N	003,007-009,015,017-019
TPH DW(C16-C21 aliphatic)	T81	AR	10	µg/l	N	003,007-009,015,017-019
TPH DW(C21-C35 aliphatic)	T81	AR	10	µg/l	N	003,007-009,015,017-019
TPH (C35-C44 aliphatic)	T81	AR	10	µg/l	N	003,007-009,015,017-019

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
TPH (Aliphatic) total	T85	AR		µg/l	N	003,007-009,015,017-019
TPH (C6-C7 aromatic)	T215	AR	10	µg/l	N	003,007-009,015,017-019
TPH (C7-C8 aromatic)	T215	AR	10	µg/l	N	003,007-009,015,017-019
TPH (C8-C10 aromatic)	T215	AR	10	µg/l	N	003,007-009,015,017-019
TPH DW(C10-C12 aromatic)	T81	AR	10	µg/l	N	003,007-009,015,017-019
TPH DW(C12-C16 aromatic)	T81	AR	10	µg/l	N	003,007-009,015,017-019
TPH DW(C16-C21 aromatic)	T81	AR	10	µg/l	N	003,007-009,015,017-019
TPH DW(C21-C35 aromatic)	T81	AR	10	µg/l	N	003,007-009,015,017-019
TPH (C35-C44 aromatic)	T81	AR	10	µg/l	N	003,007-009,015,017-019
TPH (Aromatic) total	T85	AR		µg/l	N	003,007-009,015,017-019
TPH (Aliphatic+Aromatic) (sum)	T85	AR		µg/l	N	003,007-009,015,017-019
Benzene	T54	AR	1	µg/l	U	003,007-009,015-019
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	003,007-009,015-019
PCB BZ#101	T1	AR	0.005	µg/l	U	003,007-009,020
PCB BZ#118	T16	AR	0.005	µg/l	U	003,007-009,020
PCB BZ#138	T1	AR	0.005	µg/l	U	003,007-009,020
PCB BZ#153	T1	AR	0.005	µg/l	U	003,007-009,020
PCB BZ#180	T1	AR	0.005	µg/l	U	003,007-009,020
PCB BZ#28	T1	AR	0.005	µg/l	U	003,007-009,020
PCB BZ#52	T1	AR	0.005	µg/l	U	003,007-009,020
1,2,4-Trichlorobenzene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
1,2-Dichlorobenzene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
1,3-Dichlorobenzene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
1,4-Dichlorobenzene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2,4,5-Trichlorophenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2,4,6-Trichlorophenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2,4-Dichlorophenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2,4-Dimethylphenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2,4-Dinitrophenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2,4-Dinitrotoluene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2,6-Dinitrotoluene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2-Chloronaphthalene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2-Chlorophenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2-methyl phenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2-Methylnaphthalene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2-Nitroaniline	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2-Nitrophenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
3-Nitroaniline	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
3/4-Methylphenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
4-Bromophenyl phenylether	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
4-Chloro-3-methylphenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
4-Chloroaniline	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
4-Chlorophenyl phenylether	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
4-Nitroaniline	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
4-Nitrophenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Acenaphthene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Acenaphthylene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Anthracene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Azobenzene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Benzo(a)Anthracene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Benzo(a)Pyrene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Benzo(b/k)Fluoranthene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Benzo(ghi)Perylene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Bis (2-chloroethoxy) methane	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Bis (2-chloroethyl) ether	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Bis (2-chloroisopropyl) ether	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Bis (2-ethylhexyl)phthalate	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Butyl benzylphthalate	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Carbazole	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Chrysene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Di-n-butylphthalate	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Di-n-octylphthalate	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Dibenzo(ah)Anthracene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Dibenzofuran	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Diethyl phthalate	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Dimethyl phthalate	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Fluoranthene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Fluorene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Hexachlorobenzene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Hexachlorobutadiene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Hexachlorocyclopentadiene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Hexachloroethane	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Indeno(123-cd)Pyrene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Isophorone	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Naphthalene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Nitrobenzene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Pentachlorophenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Phenanthrene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Phenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Pyrene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,1,1-Trichloroethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,1,2-Trichloroethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,1,2-Trichloroethylene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,1-Dichloroethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,1-Dichloroethylene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,1-Dichloropropene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,2,3-Trichloropropane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,2-dibromoethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,2-Dichloroethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,2-Dichloropropane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,3-Dichlorobenzene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,3-Dichloropropane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,4-Dichlorobenzene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
2,2-Dichloropropane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
2-Chlorotoluene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
4-Chlorotoluene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Bromobenzene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Bromochloromethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Bromodichloromethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Bromoform	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Bromomethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Carbon tetrachloride	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Chlorobenzene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Chlorodibromomethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Chloroethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Chloroform	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Chloromethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Dibromomethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Dichlorodifluoromethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Dichloromethane	T54	AR	50	µg/l	N	003,007-009,015-016,018-019
EthylBenzene	T54	AR	1	µg/l	U	003,007-009,015-019
Isopropyl benzene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
M/P Xylene	T54	AR	1	µg/l	U	003,007-009,015-019
n-Propylbenzene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
O Xylene	T54	AR	1	µg/l	U	003,007-009,015-019
p-Isopropyltoluene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
S-Butylbenzene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Styrene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
T-Butylbenzene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Tetrachloroethene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Toluene	T54	AR	1	µg/l	U	003,007-009,015-019
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Trichlorofluoromethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Vinyl chloride	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Vinyl chloride	T215	AR	0.5	µg/l	N	003,007-009,015-016,018-019

Scientific Analysis Laboratories is a limited company registered in England and Wales (No 2514788) whose address is at Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
Hadfield Street
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M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 350510-1

Date of Report: 23-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St (Alkalinity)
Date Job Received at SAL: 22-Aug-2013
Date Analysis Started: 17-Sep-2013
Date Analysis Completed: 23-Sep-2013

The results reported relate to samples received in the laboratory
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

[redacted]

SAL Reference: 350510
Project Site: A63 Castle St (Alkalinity)
Customer Reference: 112630

Water Analysed as Water
Miscellaneous

SAL Reference					**350510 001**	**350510 002**	**350510 003**	**350510 004**	**350510 005**	**350510 006**	**350510 007**	**350510 008**
Customer Sample Reference					**SW1 EW 001 (347221/039)**	**SW2 EW 001 (346570/025)**	**SW3 EW 001 (346570/027)**	**SW4 EW 001 (346570/026)**	**SW5 EW 001 (347221/022)**	**SW6 EW 001 (347221/021)**	**SW2 EW 001 1.5 (349248/001)**	**SW3 EW 001 1.8 (349248/002)**
Date Sampled					**22-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**22-AUG-2013**	**22-AUG-2013**	**05-SEP-2013**	**05-SEP-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
Alkalinity expressed as CaCO3	T22	AR	10	mg/l	**130**	**130**	**120**	**120**	**110**	**110**	**130**	**120**

Index to symbols used in 350510-1

Value	Description
AR	As Received
N	Analysis is not UKAS accredited

Method Index

Value	Description
T22	Titration

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Alkalinity expressed as CaCO3	T22	AR	10	mg/l	N	001-008

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
Hadfield Street
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Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 351165-1

Date of Report: 25-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - Asbestos
Date Job Received at SAL: 02-Sep-2013
Date Analysis Started: 20-Sep-2013
Date Analysis Completed: 25-Sep-2013

The results reported relate to samples received in the laboratory
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

[redacted]

SAL Reference: 351165
Project Site: A63 Castle St - Asbestos
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

SAL Reference	351165 001	351165 002	351165 003	351165 004	351165 005
Customer Sample Reference	WS10 ES 001 0.5 (346570/032)	WS12A ES 002 0.4-0.6 (347221/017)	SCPT28 ES 001 0.5 (348302/006)	SCPT14 TRENCH ES 001 0.4 (348302/035)	WS01 ES 002 1.0-1.2 (348302/025)
Date Sampled	20-AUG-2013	21-AUG-2013	28-AUG-2013	29-AUG-2013	29-AUG-2013

Determinand	Method	Test Sample	LOD	Units					
Asbestos Quantification	T27	AR	0.001	%	Asbestos (Lagging)	Chrysotile Detected	Chrysotile Detected	Chrysotile Detected	Chrysotile Detected
					-	-	-	-	-
					Chrysotile Detected	**0.016**	**0.022**	**0.042**	**0.013**
					-				
					0.013				

Index to symbols used in 351165-1

Value	Description
AR	As Received
S	Analysis was subcontracted
U	Analysis is UKAS accredited

Method Index

Value	Description
T27	PLM

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Asbestos Quantification	T27	AR	0.001	%	SU	001-005

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Hadfield Street
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Tel : 0161 874 2400
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Report Number: Supplement to 354807-1

Date of Report: 15-Oct-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - Asbestos
Date Job Received at SAL: 10-Oct-2013
Date Analysis Started: 11-Oct-2013
Date Analysis Completed: 15-Oct-2013

The results reported relate to samples received in the laboratory
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Lianne Bromiley
Assistant Customer Servic
Manager

SAL Reference: 354807
Project Site: A63 Castle St - Asbestos
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

SAL Reference	354807 001	354807 002	354807 003	354807 004	354807 005
Customer Sample Reference	BH14 0.5mbgl (349049/062)	BH46 0.5mbgl (350010/061)	WS20 0.25mbgl (350010/006)	BH41 3mbgl (350010/013)	BH41 9.5mbgl (350010/025)
Date Sampled	03-SEP-2013	05-SEP-2013	06-SEP-2013	09-SEP-2013	09-SEP-2013

Determinand	Method	Test Sample	LOD	Units					
Asbestos Quantification	T27	AR	0.001	%	Chrysotile Detected	Asbestos (Lagging)	Amosite Detected	Chrysotile Detected	Amosite Detected
					-	-	-	-	-
					<0.001	Chrysotile Detected	**0.018**	**0.033**	**0.074**
						-			
						0.11			

Index to symbols used in Supplement to 354807-1

Value	Description
AR	As Received
S	Analysis was subcontracted
U	Analysis is UKAS accredited

Notes

Supplemental report issued to correct the asbestos result for sample 005

Method Index

Value	Description
T27	PLM

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Asbestos Quantification	T27	AR	0.001	%	SU	001-005

Scientific Analysis Laboratories is a limited company registered in England and Wales (No 2514788) whose address is at Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 348289-1

Date of Report: 10-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St
Date Job Received at SAL: 23-Jul-2013
Date Analysis Started: 03-Sep-2013
Date Analysis Completed: 10-Sep-2013

The results reported relate to samples received in the laboratory
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

SAL Reference: 348289
Project Site: A63 Castle St
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

	SAL Reference	348289 001	348289 002	348289 003	348289 004
	Customer Sample Reference	SCPT30 ES 001 0.5 (345667/020)	BH06 ES 006 2.5 (345430/015)	SCPT4 ES 001 0.5 (342275/012)	BH06 ES 008 3.0 (345430/016)
	Date Sampled	14-AUG-2013	12-AUG-2013	19-JUL-2013	12-AUG-2013
Determinand	**Method** / **Test Sample** / **LOD** / **Units**				
Asbestos ID	T27 / AR / /	-	-	-	N.D.
Asbestos Quantification	T27 / AR / 0.001 / %	Chrysotile Detected <0.001% -	Chrysotile Detected <0.001% -	Chrysotile Detected <0.001% -	-

Index to symbols used in 348289-1

Value	Description
AR	As Received
N.D.	Not Detected
S	Analysis was subcontracted
U	Analysis is UKAS accredited

Method Index

Value	Description
T27	PLM

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Asbestos ID	T27	AR			SU	004
Asbestos Quantification	T27	AR	0.001	%	SU	001-003

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limited company registered in England and
Wales (No 2514788) whose address is at
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Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 349285-1

Date of Report: 19-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - WAC
Date Job Received at SAL: 06-Sep-2013
Date Analysis Started: 10-Sep-2013
Date Analysis Completed: 19-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

[redacted]

Waste Acceptance Criteria

Customer Sample Reference : BH17 ES 004 0.5 (345430/001)
SAL Sample Reference : 349285 001
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Date Sampled : 09-AUG-2013
Test Portion Mass (g) : 175
Depth : 0.5
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	5.8			10.0
Moisture	Grav	0.1	%	N	13			
PAH (Sum)	Calc	1.6	mg/kg	N	50	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	8.1		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	4.0	**3.0**	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	91	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.081	**0.06**	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.17	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.11	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	22	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.028	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.039	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	88	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	7.5	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.030	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.017	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	<0.0050	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	<5.0	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	760	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.025	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : WS01 ES 002 1.0-1.2 (348302/025)
SAL Sample Reference : 349285 002
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Test Portion Mass (g) : 175
Depth : 1.2
Date Sampled : 29-AUG-2013
Top Depth : 1.0
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	4.8			10.0
Moisture	Grav	0.1	%	N	7.9			
PAH (Sum)	Calc	1.6	mg/kg	N	42	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	(9) <0.0035	1.0		
pH	Probe			M	8.5		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	2.8	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	83	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.098	**0.06**	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.072	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.30	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	46	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.051	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.083	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	130	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	8.6	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.042	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	0.00072	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.065	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.0087	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	160	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	1000	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.031	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : WS03 ES 001 1.8-2.0 (348302/054)
SAL Sample Reference : 349285 003
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Depth : 2.0
Date Sampled : 30-AUG-2013
Top Depth : 1.8
Test Portion Mass (g) : 175
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	3.6			10.0
Moisture	Grav	0.1	%	N	19			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.7		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	0.8	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.032	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.15	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	1400	**800.0**	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.022	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	110	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	2.7	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	<0.0030	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.12	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.018	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	280	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	3600	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	<0.020	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : TP05A ES 001 1.0-1.2 (348302/008)
SAL Sample Reference : 349285 004
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Date Sampled : 28-AUG-2013
Test Portion Mass (g) : 175
Top Depth : 1.0
Depth : 1.2
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	7.9			10.0
Moisture	Grav	0.1	%	N	9.0			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	8.3		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	12	3.0	5.0	**6.0**
TPH C10-C40 (sum)	Calc	1	mg/kg	N	240	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.016	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.060	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.17	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	22	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.019	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.077	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	79	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	3.5	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.019	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.053	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	<0.0050	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	73	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	970	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	<0.020	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : TP04 ES 001 0.2-0.5 (348302/012)
SAL Sample Reference : 349285 005
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Date Sampled : 28-AUG-2013
Top Depth : 0.2
Depth : 0.5
Test Portion Mass (g) : 175
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	7.6			10.0
Moisture	Grav	0.1	%	N	5.3			
PAH (Sum)	Calc	1.6	mg/kg	N	23	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	0.0024	1.0		
pH	Probe			M	8.2		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	17	3.0	5.0	**6.0**
TPH C10-C40 (sum)	Calc	1	mg/kg	N	93	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.069	**0.06**	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.093	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.21	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	25	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.027	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.049	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	120	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	6.5	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.11	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.041	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.0076	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	21	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	920	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.049	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH16A ES 019 5.0 (347221/032)
SAL Sample Reference : 349285 006
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Date Sampled : 21-AUG-2013
Depth : 5.0
Test Portion Mass (g) : 175
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	5.8			10.0
Moisture	Grav	0.1	%	N	28			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.6		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	1.0	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.013	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.41	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00041	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	270	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.032	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.011	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	96	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	1.4	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.0054	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.18	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.018	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.0083	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	1400	**1000.0**	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	4100	**4000.0**	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.038	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH25 ES 009 3.0 (348078/004)
SAL Sample Reference : 349285 007
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Test Portion Mass (g) : 175
Depth : 3.0
Date Sampled : 27-AUG-2013
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	3.5			10.0
Moisture	Grav	0.1	%	N	23			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.7		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	0.9	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.013	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	5.5	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	15	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.042	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.018	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	140	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	1.5	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.0060	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.13	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.017	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	<0.0050	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	520	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	2300	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.044	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH10 ES 016 6.5 (346570/006)
SAL Sample Reference : 349285 008
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Test Portion Mass (g) : 175
Date Sampled : 16-AUG-2013
Depth : 6.5
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	5.1			10.0
Moisture	Grav	0.1	%	N	31			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	8.4		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	0.8	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.012	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.047	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.25	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00056	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	220	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.038	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.018	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	160	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	1.5	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.0057	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.28	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.012	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.0067	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	490	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	2800	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.036	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Note:- Sample failed to produce sufficient eluate within the specified time after vacuum filtration for 1 hour and centrifugation for 30 minutes. Therefore, the exact application of the two-step leaching test is precluded on technical grounds. (ref: Section 5.2.4 BS EN 12457-3:2002) Results are derived from a single step leaching at L/S 10/1 as prescribed by the EA guidance. (Ref Section C4.1.1 Guidance on Sampling and Testing of Wastes to meet Landfill Waste Acceptance Procedures Version 1 April 2005, Environment Agency)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : WS26 ES 005 1.7-2.0 (349049/026)
SAL Sample Reference : 349285 009
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Depth : 2.0
Test Portion Mass (g) : 175
Date Sampled : 03-SEP-2013
Top Depth : 1.7
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	3.1			10.0
Moisture	Grav	0.1	%	N	<0.1			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	8.2		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	0.8	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	9	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.014	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	6.2	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00037	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	26	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.028	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.025	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	120	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	3.6	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.011	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.19	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.015	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	<0.0050	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	200	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	1500	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.035	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH09 ES 015 3.3 (345249/006)
SAL Sample Reference : 349285 010
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Test Portion Mass (g) : 175
Depth : 3.3
Date Sampled : 06-AUG-2013
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	2.9			10.0
Moisture	Grav	0.1	%	N	27			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.7		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	0.8	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	7	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.0062	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.56	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	63	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.041	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.011	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	85	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	1.8	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.0047	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.055	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.013	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	<0.0050	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	690	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	2800	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.035	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH01 ES 002 1.5 (344267/059)
SAL Sample Reference : 349285 011
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Depth : 1.5
Date Sampled : 06-AUG-2013
Test Portion Mass (g) : 175
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	6.2			10.0
Moisture	Grav	0.1	%	N	25			
PAH (Sum)	Calc	1.6	mg/kg	N	12	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	(9,100) <0.0010	1.0		
pH	Probe			M	8.8		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	1.0	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	52	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.024	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.13	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00037	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	470	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.069	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.018	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	84	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	<0.50	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.0053	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.18	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.021	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	520	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	2200	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.044	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

SAL Reference: 349285
Project Site: A63 Castle St - WAC
Customer Reference: 112630

Soil Analysed as Soil
MCERTS Preparation

SAL Reference	349285 001	349285 002	349285 003	349285 004	349285 005	349285 006	349285 007	349285 008	349285 009	349285 010	349285 011
Customer Sample Reference	BH17 ES 004 0.5 (345430 /001)	WS01 ES 002 1.0-1.2 (348302 /025)	WS03 ES 001 1.8-2.0 (348302 /054)	TP05A ES 001 1.0-1.2 (348302 /008)	TP04 ES 001 0.2-0.5 (348302 /012)	BH16A ES 019 5.0 (347221 /032)	BH25 ES 009 3.0 (348078 /004)	BH10 ES 016 6.5 (346570 /006)	WS26 ES 005 1.7-2.0 (349049 /026)	BH09 ES 015 3.3 (345249 /006)	BH01 ES 002 1.5 (344267 /059)
Test Sample	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
Date Sampled	09-AUG -2013	29-AUG -2013	30-AUG -2013	28-AUG -2013	28-AUG -2013	21-AUG -2013	27-AUG -2013	16-AUG -2013	03-SEP -2013	06-AUG -2013	06-AUG -2013
Depth	0.5	1.2	2.0	1.2	0.5	5.0	3.0	6.5	2.0	3.3	1.5
Top Depth		1.0	1.8	1.0	0.2				1.7		
Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Clay	Clay	Clay	Clay	Clay

Determinand	Method	LOD	Units	Symbol											
Moisture	Grav (1 Dec) (40 C)	0.1	%	N	-	-	-	-	-	-	-	-	-	-	-
Moisture @ 105 C	Grav (1 Dec) (105 C)	0.1	%	N	13	7.9	19	9.0	5.3	28	23	31	<0.1	27	25

SAL Reference: 349285
Project Site: A63 Castle St - WAC
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

SAL Reference	349285 004	349285 005	349285 011
Customer Sample Reference	TP05A ES 001 1.0-1.2 (348302/ 008)	TP04 ES 001 0.2-0.5 (348302/ 012)	BH01 ES 002 1.5 (344267/ 059)
Test Sample	AR	AR	AR
Date Sampled	28-AUG-2013	28-AUG-2013	06-AUG-2013
Depth	1.2	0.5	1.5
Top Depth	1.0	0.2	
Type	Sandy Soil	Sandy Soil	Clay

Determinand	Method	LOD	Units	Symbol			
Asbestos ID	PLM			SU	N.D.	N.D.	N.D.

SAL Reference: 349285
Project Site: A63 Castle St - WAC
Customer Reference: 112630

Soil Analysed as Soil
Total and Speciated USEPA16 PAH

SAL Reference					**34928 5 001**	**34928 5 002**	**34928 5 003**	**34928 5 004**	**34928 5 005**	**34928 5 006**	**34928 5 007**	**34928 5 008**	**34928 5 009**	**34928 5 010**	**34928 5 011**
Customer Sample Reference					**BH17 ES 004 0.5 (345430/001)**	**WS01 ES 002 1.0-1.2 (348302/025)**	**WS03 ES 001 1.8-2.0 (348302/054)**	**TP05A ES 001 1.0-1.2 (348302/008)**	**TP04 ES 001 0.2-0.5 (348302/012)**	**BH16A ES 019 5.0 (347221/032)**	**BH25 ES 009 3.0 (348078/004)**	**BH10 ES 016 6.5 (346570/006)**	**WS26 ES 005 1.7-2.0 (349049/026)**	**BH09 ES 015 3.3 (345249/006)**	**BH01 ES 002 1.5 (344267/059)**
Test Sample					**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**
Date Sampled					**09-AUG-2013**	**29-AUG-2013**	**30-AUG-2013**	**28-AUG-2013**	**28-AUG-2013**	**21-AUG-2013**	**27-AUG-2013**	**16-AUG-2013**	**03-SEP-2013**	**06-AUG-2013**	**06-AUG-2013**
Depth					**0.5**	**1.2**	**2.0**	**1.2**	**0.5**	**5.0**	**3.0**	**6.5**	**2.0**	**3.3**	**1.5**
Top Depth						**1.0**	**1.8**	**1.0**	**0.2**				**1.7**		
Type					**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**LOD**	**Units**	**Symbol**											
Naphthalene	GC/MS(MCERTS)	0.1	mg/kg	M	**1.0**	**0.9**	<0.1	<0.1	**1.4**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	GC/MS(MCERTS)	0.1	mg/kg	U	**0.5**	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	GC/MS(MCERTS)	0.1	mg/kg	M	**0.6**	**0.5**	<0.1	<0.1	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	GC/MS(MCERTS)	0.1	mg/kg	M	**1.0**	**0.5**	<0.1	<0.1	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	GC/MS(MCERTS)	0.1	mg/kg	M	**6.7**	**4.3**	<0.1	<0.1	**2.2**	<0.1	<0.1	<0.1	<0.1	<0.1	**0.9**
Anthracene	GC/MS(MCERTS)	0.1	mg/kg	U	**2.3**	**1.2**	<0.1	<0.1	**0.5**	<0.1	<0.1	<0.1	<0.1	<0.1	**0.3**
Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	**6.8**	**6.3**	<0.1	<0.1	**3.8**	<0.1	<0.1	<0.1	<0.1	<0.1	**2.4**
Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	**5.9**	**5.7**	<0.1	<0.1	**3.4**	<0.1	<0.1	<0.1	<0.1	<0.1	**2.1**
Benzo(a)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	**4.8**	**4.3**	<0.1	<0.1	**2.0**	<0.1	<0.1	<0.1	<0.1	<0.1	**1.0**
Chrysene	GC/MS(MCERTS)	0.1	mg/kg	M	**4.9**	**4.3**	<0.1	<0.1	**2.4**	<0.1	<0.1	<0.1	<0.1	<0.1	**1.0**
Benzo(b/k)Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	**7.7**	**6.9**	<0.1	<0.1	**3.7**	<0.1	<0.1	<0.1	<0.1	<0.1	**2.1**
Benzo(a)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	**3.9**	**3.4**	<0.1	<0.1	**1.7**	<0.1	<0.1	<0.1	<0.1	<0.1	**1.1**
Indeno(123-cd)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	**2.0**	**1.6**	<0.1	<0.1	**0.9**	<0.1	<0.1	<0.1	<0.1	<0.1	**0.5**
Dibenzo(ah)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	**0.5**	**0.4**	<0.1	<0.1	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	GC/MS(MCERTS)	0.1	mg/kg	M	**1.7**	**1.4**	<0.1	<0.1	**0.7**	<0.1	<0.1	<0.1	<0.1	<0.1	**0.5**
Polyaromatic Hydrocarbons (Total)	GC/MS(MCERTS)	0.1	mg/kg	U	**50**	**42**	<0.1	<0.1	**23**	<0.1	<0.1	<0.1	<0.1	<0.1	**12**
Phenol	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Coronene	GC/MS	0.1	mg/kg	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 349285
Project Site: A63 Castle St - WAC
Customer Reference: 112630

Soil Analysed as Soil
TPH

SAL Reference					**34928 5 001**	**34928 5 002**	**34928 5 003**	**34928 5 004**	**34928 5 005**	**34928 5 006**	**34928 5 007**	**34928 5 008**	**34928 5 009**	**34928 5 010**	**34928 5 011**
Customer Sample Reference					**BH17 ES 004 0.5 (345430/001)**	**WS01 ES 002 1.0-1.2 (348302/025)**	**WS03 ES 001 1.8-2.0 (348302/054)**	**TP05A ES 001 1.0-1.2 (348302/008)**	**TP04 ES 001 0.2-0.5 (348302/012)**	**BH16A ES 019 5.0 (347221/032)**	**BH25 ES 009 3.0 (348078/004)**	**BH10 ES 016 6.5 (346570/006)**	**WS26 ES 005 1.7-2.0 (349049/026)**	**BH09 ES 015 3.3 (345249/006)**	**BH01 ES 002 1.5 (344267/059)**
Test Sample					**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**
Date Sampled					**09-AUG-2013**	**29-AUG-2013**	**30-AUG-2013**	**28-AUG-2013**	**28-AUG-2013**	**21-AUG-2013**	**27-AUG-2013**	**16-AUG-2013**	**03-SEP-2013**	**06-AUG-2013**	**06-AUG-2013**
Depth					**0.5**	**1.2**	**2.0**	**1.2**	**0.5**	**5.0**	**3.0**	**6.5**	**2.0**	**3.3**	**1.5**
Top Depth						**1.0**	**1.8**	**1.0**	**0.2**				**1.7**		
Type					**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**LOD**	**Units**	**Symbol**											
Total Petroleum Hydrocarbons	GC/FID	1	mg/kg	M	**78**	**69**	<1	**210**	**79**	<1	<1	<1	**9**	**7**	**41**
Total Petroleum Hydrocarbons (C35-C40)	GC/FID	1	mg/kg	N	**13**	**14**	<1	**26**	**14**	<1	<1	<1	<1	<1	**11**

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Project Site: A63 Castle St - WAC
Customer Reference: 112630

Soil Analysed as Soil
BTEX

SAL Reference	34928 5 001	34928 5 002	34928 5 003	34928 5 004	34928 5 005	34928 5 006	34928 5 007	34928 5 008	34928 5 009	34928 5 010	34928 5 011
Customer Sample Reference	BH17 ES 004 0.5 (345430/001)	WS01 ES 002 1.0-1.2 (348302/025)	WS03 ES 001 1.8-2.0 (348302/054)	TP05A ES 001 1.0-1.2 (348302/008)	TP04 ES 001 0.2-0.5 (348302/012)	BH16 A ES 019 5.0 (347221/032)	BH25 ES 009 3.0 (348078/004)	BH10 ES 016 6.5 (346570/006)	WS26 ES 005 1.7-2.0 (349049/026)	BH09 ES 015 3.3 (345249/006)	BH01 ES 002 1.5 (344267/059)
Test Sample	M105	M105	M105	M105	M105	M105	M105	M105	M105	M105	M105
Date Sampled	09-AUG-2013	29-AUG-2013	30-AUG-2013	28-AUG-2013	28-AUG-2013	21-AUG-2013	27-AUG-2013	16-AUG-2013	03-SEP-2013	06-AUG-2013	06-AUG-2013
Depth	0.5	1.2	2.0	1.2	0.5	5.0	3.0	6.5	2.0	3.3	1.5
Top Depth		1.0	1.8	1.0	0.2				1.7		
Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Clay	Clay	Clay	Clay	Clay

Determinand	Method	LOD	Units	Symbol											
Benzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Toluene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
EthylBenzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ortho-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Meta/Para-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010

SAL Reference: 349285
Project Site: A63 Castle St - WAC
Customer Reference: 112630

Soil Analysed as Soil
PCB EC7

SAL Reference	349285 001	349285 002	349285 003	349285 004	349285 005	349285 006
Customer Sample Reference	BH17 ES 004 0.5 (345430/001)	WS01 ES 002 1.0-1.2 (348302/025)	WS03 ES 001 1.8-2.0 (348302/054)	TP05A ES 001 1.0-1.2 (348302/008)	TP04 ES 001 0.2-0.5 (348302/012)	BH16A ES 019 5.0 (347221/032)
Test Sample	M105	M105	M105	M105	M105	M105
Date Sampled	09-AUG-2013	29-AUG-2013	30-AUG-2013	28-AUG-2013	28-AUG-2013	21-AUG-2013
Depth	0.5	1.2	2.0	1.2	0.5	5.0
Top Depth		1.0	1.8	1.0	0.2	
Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay

Determinand	Method	LOD	Units	Symbol						
Polychlorinated biphenyl BZ#101	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(9) <0.00050	<0.00005	<0.00005	**0.00033**	<0.00005
Polychlorinated biphenyl BZ#118	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(9) <0.00050	<0.00005	<0.00005	**0.00025**	<0.00005
Polychlorinated biphenyl BZ#138	GC/MS (HR)	0.00005	mg/kg	M	**0.00006**	(9) <0.00050	<0.00005	<0.00005	**0.00065**	<0.00005
Polychlorinated biphenyl BZ#153	GC/MS (HR)	0.00005	mg/kg	M	**0.00007**	(9) <0.00050	<0.00005	<0.00005	**0.00057**	<0.00005
Polychlorinated biphenyl BZ#180	GC/MS (HR)	0.00005	mg/kg	M	**0.00007**	(9) <0.00050	<0.00005	<0.00005	**0.00044**	<0.00005
Polychlorinated biphenyl BZ#28	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(9) <0.00050	<0.00005	<0.00005	<0.00005	<0.00005
Polychlorinated biphenyl BZ#52	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(9) <0.00050	<0.00005	<0.00005	**0.00015**	<0.00005

SAL Reference: 349285
Project Site: A63 Castle St - WAC
Customer Reference: 112630

Soil Analysed as Soil
PCB EC7

				SAL Reference	**349285 007**	**349285 008**	**349285 009**	**349285 010**	**349285 011**
				Customer Sample Reference	**BH25 ES 009 3.0 (348078/004)**	**BH10 ES 016 6.5 (346570/006)**	**WS26 ES 005 1.7-2.0 (349049/026)**	**BH09 ES 015 3.3 (345249/006)**	**BH01 ES 002 1.5 (344267/059)**
				Test Sample	**M105**	**M105**	**M105**	**M105**	**M105**
				Date Sampled	**27-AUG-2013**	**16-AUG-2013**	**03-SEP-2013**	**06-AUG-2013**	**06-AUG-2013**
				Depth	**3.0**	**6.5**	**2.0**	**3.3**	**1.5**
				Top Depth			**1.7**		
				Type	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**LOD**	**Units**	**Symbol**					
Polychlorinated biphenyl BZ#101	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005	<0.00005	<0.00005	(100,9) <0.0010
Polychlorinated biphenyl BZ#118	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005	<0.00005	<0.00005	(9,100) <0.0010
Polychlorinated biphenyl BZ#138	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005	<0.00005	<0.00005	(9,100) <0.0010
Polychlorinated biphenyl BZ#153	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005	<0.00005	<0.00005	(100,9) <0.0010
Polychlorinated biphenyl BZ#180	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005	<0.00005	<0.00005	(100,9) <0.0010
Polychlorinated biphenyl BZ#28	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005	<0.00005	<0.00005	(100,9) <0.0010
Polychlorinated biphenyl BZ#52	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005	<0.00005	<0.00005	(9,100) <0.0010

Index to symbols used in 349285-1

Value	Description
2:1	Leachate to BS EN 12457-3 (2:1)
AR	As Received
8:1	Leachate to BS EN 12457-3 (8:1)
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
N.D.	Not Detected
9	LOD raised due to dilution of sample
100	LOD determined by sample aliquot used for analysis
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Samples 009-011: These samples have been analysed exceeding recommended holding times. It is possible therefore that the results provided may be compromised.

Scientific Analysis Laboratories is a
limited company registered in England and
Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 349049-1

Date of Report: 20-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 43
Date Job Received at SAL: 04-Sep-2013
Date Analysis Started: 09-Sep-2013
Date Analysis Completed: 19-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Mana
(Land)

Waste Acceptance Criteria

Customer Sample Reference : BH23 ES 020 6.0
SAL Sample Reference : 349049 058
Project Site : A63 Castle St - 43
Customer Reference : 112630
Test Portion Mass (g) : 175
Date Sampled : 03-SEP-2013
Depth : 6.0
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	3.8			10.0
Moisture	Grav	0.1	%	N	29			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	8.5		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	1.1	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	5	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.015	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.066	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.16	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00081	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	520	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.13	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.098	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	700	**500.0**	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	3.8	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.024	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.54	**0.5**	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.038	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.017	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	530	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	4300	**4000.0**	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.038	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Note:- Sample failed to produce sufficient eluate within the specified time after vacuum filtration for 1 hour and centrifugation for 30 minutes. Therefore, the exact application of the two-step leaching test is precluded on technical grounds. (ref: Section 5.2.4 BS EN 12457-3:2002) Results are derived from a single step leaching at L/S 10/1 as prescribed by the EA guidance. (Ref Section C4.1.1 Guidance on Sampling and Testing of Wastes to meet Landfill Waste Acceptance Procedures Version 1 April 2005, Environment Agency)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH14 ES 026 7.0
SAL Sample Reference : 349049 075
Project Site : A63 Castle St - 43
Customer Reference : 112630
Date Sampled : 03-SEP-2013
Depth : 7.0
Test Portion Mass (g) : 175
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	3.3			10.0
Moisture	Grav	0.1	%	N	25			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	(100) <0.0035	1.0		
pH	Probe			M	8.4		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	1.0	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	(9) <10	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.034	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.19	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00040	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	510	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.096	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.017	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	290	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	2.5	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	<0.0030	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.35	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.019	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.013	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	800	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	4300	**4000.0**	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	<0.020	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Note:- Sample failed to produce sufficient eluate within the specified time after vacuum filtration for 1 hour and centrifugation for 30 minutes. Therefore, the exact application of the two-step leaching test is precluded on technical grounds. (ref: Section 5.2.4 BS EN 12457-3:2002) Results are derived from a single step leaching at L/S 10/1 as prescribed by the EA guidance. (Ref Section C4.1.1 Guidance on Sampling and Testing of Wastes to meet Landfill Waste Acceptance Procedures Version 1 April 2005, Environment Agency)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

SAL Reference: 349049
Project Site: A63 Castle St - 43
Customer Reference: 112630

Soil Analysed as Soil
MCERTS Preparation

SAL Reference	**349049 058**	**349049 075**
Customer Sample Reference	**BH23 ES 020 6.0**	**BH14 ES 026 7.0**
Test Sample	**AR**	**AR**
Date Sampled	**03-SEP-2013**	**03-SEP-2013**
Depth	**6.0**	**7.0**
Type	**Clay**	**Clay**

Determinand	Method	LOD	Units	Symbol		
Moisture	Grav (1 Dec) (40 C)	0.1	%	N	**28**	**27**
Moisture @ 105 C	Grav (1 Dec) (105 C)	0.1	%	N	**29**	**25**

SAL Reference: 349049
Project Site: A63 Castle St - 43
Customer Reference: 112630

Soil Analysed as Soil
WAC

SAL Reference	**349049 058**	**349049 075**
Customer Sample Reference	**BH23 ES 020 6.0**	**BH14 ES 026 7.0**
Test Sample	**M105**	**M105**
Date Sampled	**03-SEP-2013**	**03-SEP-2013**
Depth	**6.0**	**7.0**
Type	**Clay**	**Clay**

Determinand	Method	LOD	Units	Symbol		
Naphthalene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Acenaphthylene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1
Acenaphthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Fluorene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Phenanthrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Anthracene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1
Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(a)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Chrysene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(b/k)Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(a)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Indeno(123-cd)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Dibenzo(ah)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(ghi)Perylene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Polyaromatic Hydrocarbons (Total)	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1
Phenol	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Coronene	GC/MS	0.1	mg/kg	N	<0.1	<0.1
Total Petroleum Hydrocarbons	GC/FID	1	mg/kg	M	**5**	(9) <10
Total Petroleum Hydrocarbons (C35-C40)	GC/FID	1	mg/kg	N	<1	(9) <10
Benzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
Toluene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
EthylBenzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
Ortho-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
Meta/Para-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
Polychlorinated biphenyl BZ#101	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(100) <0.00050
Polychlorinated biphenyl BZ#118	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(100) <0.00050
Polychlorinated biphenyl BZ#138	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(100) <0.00050
Polychlorinated biphenyl BZ#153	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(100) <0.00050
Polychlorinated biphenyl BZ#180	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(100) <0.00050
Polychlorinated biphenyl BZ#28	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(100) <0.00050
Polychlorinated biphenyl BZ#52	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(100) <0.00050

Index to symbols used in 349049-1

Value	Description
10:1	Leachate to BS EN 12457-2 (10:1)
8:1	Leachate to BS EN 12457-3 (8:1)
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
AR	As Received
2:1	Leachate to BS EN 12457-3 (2:1)
100	LOD determined by sample aliquot used for analysis
9	LOD raised due to dilution of sample
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

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limited company registered in England and
Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
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Report Number: 349263-1

Date of Report: 19-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 44
Date Job Received at SAL: 06-Sep-2013
Date Analysis Started: 10-Sep-2013
Date Analysis Completed: 19-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Man
(Land)

Waste Acceptance Criteria

Customer Sample Reference : WS11 ES 010 4.2
SAL Sample Reference : 349263 007
Project Site : A63 Castle St - 44
Customer Reference : 112630
Test Portion Mass (g) : 175
Date Sampled : 04-SEP-2013
Top Depth : 4.2
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	2.4			10.0
Moisture	Grav	0.1	%	N	30			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.9		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	0.8	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.015	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.013	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.33	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	58	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.038	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.0087	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	140	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	1.6	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	<0.0030	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.12	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.0072	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	740	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	2300	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	<0.020	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Note:- Sample failed to produce sufficient eluate within the specified time after vacuum filtration for 1 hour and centrifugation for 30 minutes. Therefore, the exact application of the two-step leaching test is precluded on technical grounds. (ref: Section 5.2.4 BS EN 12457-3:2002) Results are derived from a single step leaching at L/S 10/1 as prescribed by the EA guidance. (Ref Section C4.1.1 Guidance on Sampling and Testing of Wastes to meet Landfill Waste Acceptance Procedures Version 1 April 2005, Environment Agency)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : WS22 ES 002 1.0
SAL Sample Reference : 349263 009
Project Site : A63 Castle St - 44
Customer Reference : 112630
Date Sampled : 04-SEP-2013
Test Portion Mass (g) : 175
Top Depth : 1.0
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	5.6			10.0
Moisture	Grav	0.1	%	N	21			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.8		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	2.4	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.18	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.15	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	25	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.050	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.055	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	140	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	1.6	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.034	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.019	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.023	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	<0.0050	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	9.7	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	910	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.074	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Note:- Sample failed to produce sufficient eluate within the specified time after vacuum filtration for 1 hour and centrifugation for 30 minutes. Therefore, the exact application of the two-step leaching test is precluded on technical grounds. (ref: Section 5.2.4 BS EN 12457-3:2002) Results are derived from a single step leaching at L/S 10/1 as prescribed by the EA guidance. (Ref Section C4.1.1 Guidance on Sampling and Testing of Wastes to meet Landfill Waste Acceptance Procedures Version 1 April 2005, Environment Agency)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

SAL Reference: 349263
Project Site: A63 Castle St - 44
Customer Reference: 112630

Soil Analysed as Soil
MCERTS Preparation

SAL Reference	**349263 007**	**349263 009**
Customer Sample Reference	**WS11 ES 010 4.2**	**WS22 ES 002 1.0**
Test Sample	**AR**	**AR**
Date Sampled	**04-SEP-2013**	**04-SEP-2013**
Top Depth	**4.2**	**1.0**
Type	**Clay**	**Sandy Soil**

Determinand	Method	LOD	Units	Symbol		
Moisture	Grav (1 Dec) (40 C)	0.1	%	N	**29**	**20**
Moisture @ 105 C	Grav (1 Dec) (105 C)	0.1	%	N	**30**	**21**

SAL Reference: 349263
Project Site: A63 Castle St - 44
Customer Reference: 112630

Soil Analysed as Soil
Total and Speciated USEPA16 PAH

SAL Reference	**349263 007**	**349263 009**
Customer Sample Reference	**WS11 ES 010 4.2**	**WS22 ES 002 1.0**
Test Sample	**M105**	**M105**
Date Sampled	**04-SEP-2013**	**04-SEP-2013**
Top Depth	**4.2**	**1.0**
Type	**Clay**	**Sandy Soil**

Determinand	Method	LOD	Units	Symbol		
Naphthalene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Acenaphthylene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1
Acenaphthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Fluorene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Phenanthrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Anthracene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1
Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(a)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Chrysene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(b/k)Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(a)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Indeno(123-cd)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Dibenzo(ah)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(ghi)Perylene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Polyaromatic Hydrocarbons (Total)	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1
Phenol	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Coronene	GC/MS	0.1	mg/kg	N	<0.1	<0.1

SAL Reference: 349263
Project Site: A63 Castle St - 44
Customer Reference: 112630

Soil Analysed as Soil
TPH

SAL Reference	**349263 007**	**349263 009**
Customer Sample Reference	**WS11 ES 010 4.2**	**WS22 ES 002 1.0**
Test Sample	**M105**	**M105**
Date Sampled	**04-SEP-2013**	**04-SEP-2013**
Top Depth	**4.2**	**1.0**
Type	**Clay**	**Sandy Soil**

Determinand	Method	LOD	Units	Symbol		
Total Petroleum Hydrocarbons	GC/FID	1	mg/kg	M	<1	<1
Total Petroleum Hydrocarbons (C35-C40)	GC/FID	1	mg/kg	N	<1	<1

SAL Reference: 349263
Project Site: A63 Castle St - 44
Customer Reference: 112630

Soil Analysed as Soil
BTEX

SAL Reference	**349263 007**	**349263 009**
Customer Sample Reference	**WS11 ES 010 4.2**	**WS22 ES 002 1.0**
Test Sample	**M105**	**M105**
Date Sampled	**04-SEP-2013**	**04-SEP-2013**
Top Depth	**4.2**	**1.0**
Type	**Clay**	**Sandy Soil**

Determinand	Method	LOD	Units	Symbol		
Benzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
Toluene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
EthylBenzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
Meta/Para-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	**0.020**
Ortho-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010

SAL Reference: 349263
Project Site: A63 Castle St - 44
Customer Reference: 112630

Soil Analysed as Soil
PCB EC7

SAL Reference	**349263 007**	**349263 009**
Customer Sample Reference	**WS11 ES 010 4.2**	**WS22 ES 002 1.0**
Test Sample	**M105**	**M105**
Date Sampled	**04-SEP-2013**	**04-SEP-2013**
Top Depth	**4.2**	**1.0**
Type	**Clay**	**Sandy Soil**

Determinand	Method	LOD	Units	Symbol		
Polychlorinated biphenyl BZ#101	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005
Polychlorinated biphenyl BZ#118	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005
Polychlorinated biphenyl BZ#138	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005
Polychlorinated biphenyl BZ#153	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005
Polychlorinated biphenyl BZ#180	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005
Polychlorinated biphenyl BZ#28	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005
Polychlorinated biphenyl BZ#52	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005

Index to symbols used in 349263-1

Value	Description
2:1	Leachate to BS EN 12457-3 (2:1)
AR	As Received
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
8:1	Leachate to BS EN 12457-3 (8:1)
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Scientific Analysis Laboratories is a
limited company registered in England and
Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 350010-1

Date of Report: 26-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 45, 46, 47, 48
Date Job Received at SAL: 09-Sep-2013
Date Analysis Started: 17-Sep-2013
Date Analysis Completed: 26-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Man
(Land)

[redacted]

Waste Acceptance Criteria

Customer Sample Reference : WS20 ES 001 0.25
SAL Sample Reference : 350010 006
Project Site : A63 Castle St - 45, 46, 47, 48
Customer Reference : 112630
Depth : 0.25
Date Sampled : 06-SEP-2013
Test Portion Mass (g) : 175
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	8.0			10.0
Moisture	Grav	0.1	%	N	7.5			
PAH (Sum)	Calc	1.6	mg/kg	N	130	**100.0**		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	(9) <0.0035	1.0		
pH	Probe			M	7.9		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	15	3.0	5.0	**6.0**
TPH C10-C40 (sum)	Calc	1	mg/kg	N	270	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.073	**0.06**	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.092	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	4.1	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00044	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	34	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.041	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.33	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	110	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	6.9	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.088	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	0.0037	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.17	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.049	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.16	**0.1**	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	120	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	610	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.083	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH41 ES 012 3.0
SAL Sample Reference : 350010 013
Project Site : A63 Castle St - 45, 46, 47, 48
Customer Reference : 112630
Date Sampled : 09-SEP-2013
Test Portion Mass (g) : 175
Depth : 3.0
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	3.0			10.0
Moisture	Grav	0.1	%	N	29			
PAH (Sum)	Calc	1.6	mg/kg	N	9.3	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	8.0		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	1.0	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	260	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.046	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.028	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	3.2	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	1000	**800.0**	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.034	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.030	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	(IS) 61	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	6.8	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.025	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	0.0010	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.037	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.015	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.022	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	790	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	3400	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.031	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Note:- Sample failed to produce sufficient eluate within the specified time after vacuum filtration for 1 hour and centrifugation for 30 minutes. Therefore, the exact application of the two-step leaching test is precluded on technical grounds. (ref: Section 5.2.4 BS EN 12457-3:2002) Results are derived from a single step leaching at L/S 10/1 as prescribed by the EA guidance. (Ref Section C4.1.1 Guidance on Sampling and Testing of Wastes to meet Landfill Waste Acceptance Procedures Version 1 April 2005, Environment Agency)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH44 ES 006 2.5
SAL Sample Reference : 350010 028
Project Site : A63 Castle St - 45, 46, 47, 48
Customer Reference : 112630
Test Portion Mass (g) : 175
Depth : 2.5
Date Sampled : 09-SEP-2013
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	7.3			10.0
Moisture	Grav	0.1	%	N	29			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.7		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	2.6	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.071	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	15	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00087	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	1800	**800.0**	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.095	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.026	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	160	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	4.7	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.85	**0.5**	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.16	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.028	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.025	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	890	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	5800	**4000.0**	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.15	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : TP11 ES 004 1.6
SAL Sample Reference : 350010 055
Project Site : A63 Castle St - 45, 46, 47, 48
Customer Reference : 112630
Date Sampled : 10-SEP-2013
Depth : 1.6
Test Portion Mass (g) : 175
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	4.5			10.0
Moisture	Grav	0.1	%	N	22			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.7		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	1.2	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	2400	**500.0**		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.025	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	8.1	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00022	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	21	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.051	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.010	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	120	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	5.6	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.0057	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.13	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.016	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.011	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	300	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	1900	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.041	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

SAL Reference: 350010
Project Site: A63 Castle St - 45, 46, 47, 48
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**350010 006**	**350010 013**	**350010 028**	**350010 055**
				Customer Sample Reference	**WS20 ES 001 0.25**	**BH41 ES 012 3.0**	**BH44 ES 006 2.5**	**TP11 ES 004 1.6**
				Test Sample	**AR**	**AR**	**AR**	**AR**
				Date Sampled	**06-SEP-2013**	**09-SEP-2013**	**09-SEP-2013**	**10-SEP-2013**
				Depth	**0.25**	**3.0**	**2.5**	**1.6**
				Type	**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**
Determinand	**Method**	**LOD**	**Units**	**Symbol**				
Moisture @ 105 C	Grav (1 Dec) (105 C)	0.1	%	N	**7.5**	**29**	**29**	**22**
Moisture	Grav (1 Dec) (40 C)	0.1	%	N	**7.0**	**25**	**33**	**22**

SAL Reference: 350010
Project Site: A63 Castle St - 45, 46, 47, 48
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**350010 006**	**350010 013**	**350010 028**	**350010 055**
				Customer Sample Reference	**WS20 ES 001 0.25**	**BH41 ES 012 3.0**	**BH44 ES 006 2.5**	**TP11 ES 004 1.6**
				Test Sample	**M105**	**M105**	**M105**	**M105**
				Date Sampled	**06-SEP-2013**	**09-SEP-2013**	**09-SEP-2013**	**10-SEP-2013**
				Depth	**0.25**	**3.0**	**2.5**	**1.6**
				Type	**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**
Determinand	**Method**	**LOD**	**Units**	**Symbol**				
Naphthalene	GC/MS(MCERTS)	0.1	mg/kg	M	**1.9**	<0.1	<0.1	<0.1
Acenaphthylene	GC/MS(MCERTS)	0.1	mg/kg	U	**0.2**	<0.1	<0.1	<0.1
Acenaphthene	GC/MS(MCERTS)	0.1	mg/kg	M	**2.6**	<0.1	<0.1	<0.1
Fluorene	GC/MS(MCERTS)	0.1	mg/kg	M	**2.2**	<0.1	<0.1	<0.1
Phenanthrene	GC/MS(MCERTS)	0.1	mg/kg	M	**16**	**1.1**	<0.1	<0.1
Anthracene	GC/MS(MCERTS)	0.1	mg/kg	U	**5.4**	**0.4**	<0.1	<0.1
Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	**24**	**2.4**	<0.1	<0.1
Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	**22**	**2.0**	<0.1	<0.1
Benzo(a)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	**9.9**	**0.8**	<0.1	<0.1
Chrysene	GC/MS(MCERTS)	0.1	mg/kg	M	**9.6**	**0.7**	<0.1	<0.1
Benzo(b/k)Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	**14**	**1.0**	<0.1	<0.1
Benzo(a)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	**7.3**	**0.5**	<0.1	<0.1
Indeno(123-cd)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	**3.0**	**0.2**	<0.1	<0.1
Dibenzo(ah)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	**0.8**	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	GC/MS(MCERTS)	0.1	mg/kg	M	**2.8**	**0.2**	<0.1	<0.1
Polyaromatic Hydrocarbons (Total)	GC/MS(MCERTS)	0.1	mg/kg	U	**140**	**9.3**	<0.1	<0.1
Phenol	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
Coronene	GC/MS	0.1	mg/kg	N	<0.1	<0.1	<0.1	<0.1
Total Petroleum Hydrocarbons	GC/FID	1	mg/kg	M	**230**	**230**	<1	**2400**
Total Petroleum Hydrocarbons (C35-C40)	GC/FID	1	mg/kg	N	**40**	**24**	<1	**4**
Benzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	<0.010
Toluene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	**0.012**	<0.010	<0.010	<0.010
EthylBenzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	**0.033**
Ortho-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	<0.010
Meta/Para-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	**0.012**	<0.010	<0.010	<0.010
Polychlorinated biphenyl BZ#101	GC/MS (HR)	0.00005	mg/kg	M	(9) <0.00050	<0.00005	<0.00005	<0.00005
Polychlorinated biphenyl BZ#118	GC/MS (HR)	0.00005	mg/kg	M	(9) <0.00050	<0.00005	<0.00005	<0.00005
Polychlorinated biphenyl BZ#138	GC/MS (HR)	0.00005	mg/kg	M	**0.00090**	<0.00005	<0.00005	<0.00005
Polychlorinated biphenyl BZ#153	GC/MS (HR)	0.00005	mg/kg	M	**0.00060**	**0.00012**	<0.00005	<0.00005
Polychlorinated biphenyl BZ#180	GC/MS (HR)	0.00005	mg/kg	M	**0.00060**	**0.00025**	<0.00005	<0.00005
Polychlorinated biphenyl BZ#28	GC/MS (HR)	0.00005	mg/kg	M	(9) <0.00050	<0.00005	<0.00005	<0.00005
Polychlorinated biphenyl BZ#52	GC/MS (HR)	0.00005	mg/kg	M	(9) <0.00050	<0.00005	<0.00005	<0.00005

Index to symbols used in 350010-1

Value	Description
10:1	Leachate to BS EN 12457-2 (10:1)
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
8:1	Leachate to BS EN 12457-3 (8:1)
AR	As Received
2:1	Leachate to BS EN 12457-3 (2:1)
100	LOD determined by sample aliquot used for analysis
2	LOD Raised Due to Matrix Interference
9	LOD raised due to dilution of sample
IS	Insufficient Sample
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

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limited company registered in England and
Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 350456-1

Date of Report: 26-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 49, 50
Date Job Received at SAL: 12-Sep-2013
Date Analysis Started: 16-Sep-2013
Date Analysis Completed: 26-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS
THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Man
(Land)

Waste Acceptance Criteria

Customer Sample Reference : WS05 ES005 3.0-4.0
SAL Sample Reference : 350456 009
Project Site : A63 Castle St - 49, 50
Customer Reference : 112630
Depth : 4.0
Top Depth : 3.0
Date Sampled : 11-SEP-2013
Test Portion Mass (g) : 175
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	7.8			10.0
Moisture	Grav	0.1	%	N	27			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	0.00068	1.0		
pH	Probe			M	8.4		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	1.0	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.015	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.026	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.17	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00035	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	210	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.043	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.019	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	270	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	3.9	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	<0.0030	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.27	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	<0.0050	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	340	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	2200	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.035	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Note:- Sample failed to produce sufficient eluate within the specified time after vacuum filtration for 1 hour and centrifugation for 30 minutes. Therefore, the exact application of the two-step leaching test is precluded on technical grounds. (ref: Section 5.2.4 BS EN 12457-3:2002) Results are derived from a single step leaching at L/S 10/1 as prescribed by the EA guidance. (Ref Section C4.1.1 Guidance on Sampling and Testing of Wastes to meet Landfill Waste Acceptance Procedures Version 1 April 2005, Environment Agency)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

SAL Reference: 350456
Project Site: A63 Castle St - 49, 50
Customer Reference: 112630

Soil Analysed as Soil
WAC

SAL Reference	**350456 009**
Customer Sample Reference	**WS05 ES005 3.0-4.0**
Test Sample	**AR**
Top Depth	**3.0**
Depth	**4.0**
Date Sampled	**11-SEP-2013**
Type	**Clay**

Determinand	Method	LOD	Units	Symbol	
Moisture @ 105 C	Grav (1 Dec) (105 C)	0.1	%	N	**27**
Moisture	Grav (1 Dec) (40 C)	0.1	%	N	**23**

SAL Reference: 350456
Project Site: A63 Castle St - 49, 50
Customer Reference: 112630

Soil Analysed as Soil
WAC

SAL Reference	**350456 009**
Customer Sample Reference	**WS05 ES005 3.0-4.0**
Test Sample	**M105**
Top Depth	**3.0**
Depth	**4.0**
Date Sampled	**11-SEP-2013**
Type	**Clay**

Determinand	Method	LOD	Units	Symbol	
Acenaphthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Acenaphthylene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1
Anthracene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1
Benzo(a)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Benzo(a)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Benzo(b/k)Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Benzo(ghi)Perylene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Chrysene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Dibenzo(ah)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Fluorene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Indeno(123-cd)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Naphthalene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Phenanthrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Polyaromatic Hydrocarbons (Total)	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1
Coronene	GC/MS	0.1	mg/kg	N	<0.1
Phenol	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Total Petroleum Hydrocarbons	GC/FID	1	mg/kg	M	<1
Total Petroleum Hydrocarbons (C35-C40)	GC/FID	1	mg/kg	N	<1
Benzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010
Toluene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010
EthylBenzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010
Ortho-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010
Meta/Para-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010
Polychlorinated biphenyl BZ#101	GC/MS (HR)	0.00005	mg/kg	M	**0.00009**
Polychlorinated biphenyl BZ#118	GC/MS (HR)	0.00005	mg/kg	M	**0.00011**
Polychlorinated biphenyl BZ#138	GC/MS (HR)	0.00005	mg/kg	M	**0.00016**
Polychlorinated biphenyl BZ#153	GC/MS (HR)	0.00005	mg/kg	M	**0.00014**
Polychlorinated biphenyl BZ#180	GC/MS (HR)	0.00005	mg/kg	M	**0.00018**
Polychlorinated biphenyl BZ#28	GC/MS (HR)	0.00005	mg/kg	M	<0.00005
Polychlorinated biphenyl BZ#52	GC/MS (HR)	0.00005	mg/kg	M	<0.00005

Index to symbols used in 350456-1

Value	Description
2:1	Leachate to BS EN 12457-3 (2:1)
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
8:1	Leachate to BS EN 12457-3 (8:1)
AR	As Received
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
Hadfield Street
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Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: Supplement 350954-1

Date of Report: 10-Dec-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 51
Date Job Received at SAL: 17-Sep-2013
Date Analysis Started: 19-Sep-2013
Date Analysis Completed: 25-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Richard Wong
Project Manager

[redacted]

SAL Reference: 350954
Project Site: A63 Castle St - 51
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**350954 001**	**350954 002**	**350954 003**
				Customer Sample Reference	**BH24 EW 001**	**BH18A EW 001**	**BH29 EW 001**
				Date Sampled	**16-SEP-2013**	**16-SEP-2013**	**16-SEP-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
pH	T7	AR			**7.6**	**11.7**	**11.9**
As (Dissolved)	T281	AR	0.2	µg/l	**37**	**45**	**36**
Boron	T6	AR	10	µg/l	**380**	**350**	**63**
Cd (Dissolved)	T281	AR	0.02	µg/l	**0.11**	**0.09**	**0.15**
Cr (Dissolved)	T281	AR	1	µg/l	**19**	**41**	**3**
Chromium (trivalent)	T85	AR	3	µg/l	<3	**27**	**3**
Chromium VI	T686	AR	3	µg/l	**17**	**14**	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**14**	**20**	**50**
Pb (Dissolved)	T281	AR	0.3	µg/l	**17**	**12**	**7.9**
Hg (Dissolved)	T281	AR	0.05	µg/l	**0.08**	**0.21**	**0.11**
Ni (Dissolved)	T281	AR	1	µg/l	**14**	**6**	**39**
Se (Dissolved)	T281	AR	0.5	µg/l	**57**	**160**	**94**
Zn (Dissolved)	T281	AR	2	µg/l	**22**	**2**	**3**
Calcium	T6	AR	100	µg/l	**170000**	**240000**	**240000**
Magnesium	T6	AR	100	µg/l	**130000**	**250**	<100
Potassium	T6	AR	100	µg/l	**75000**	**82000**	**78000**
Sodium	T6	AR	100	µg/l	**1100000**	**1500000**	**1500000**
Nitrate	T686	AR	0.5	mg/l	**5.0**	**10**	**10**
Nitrite	T686	AR	0.1	mg/l	**5.2**	**3.3**	**0.8**
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	**2.7**	**3.2**	**2.6**
Sulphate	T686	AR	0.5	mg/l	**130**	**610**	**320**
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**74**	**210**	**120**
Chloride	T686	AR	1	mg/l	**2100**	**3800**	**3200**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**5.5**	**9.1**	**18**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**7.1**	**12**	**23**
Suspended Solids (Total)	T2	AR	10	mg/l	**14**	**27**	**52**
Electrical Conductivity	T7	AR	10	µS/cm	**9100**	**10000**	**7100**
Total Phenols	T16	AR	0.5	µg/l	**1.2**	**0.9**	**2.4**
Cyanide(Total)	T220	AR	10	µg/l	<10	<10	<10
Cyanide(free)	T220	AR	10	µg/l	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l	**0.03**	**0.03**	<0.01
Acenaphthylene	T149	AR	0.01	µg/l	**0.02**	**0.02**	<0.01
Anthracene	T149	AR	0.01	µg/l	**0.03**	**0.02**	**0.02**
Benzo(a)Anthracene	T149	AR	0.01	µg/l	**0.04**	**0.02**	**0.03**
Benzo(a)Pyrene	T149	AR	0.01	µg/l	**0.03**	**0.02**	**0.02**
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	**0.03**	**0.02**	**0.02**
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	**0.03**	**0.02**	**0.02**
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	**0.03**	**0.02**	**0.02**
Chrysene	T149	AR	0.01	µg/l	**0.03**	**0.02**	**0.03**
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	**0.03**	**0.02**	**0.02**
Fluoranthene	T149	AR	0.01	µg/l	**0.10**	**0.06**	**0.17**
Fluorene	T149	AR	0.01	µg/l	**0.03**	**0.02**	**0.03**
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	**0.03**	**0.02**	**0.02**
Naphthalene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Phenanthrene	T149	AR	0.01	µg/l	**0.04**	**0.05**	**0.12**
Pyrene	T149	AR	0.01	µg/l	**0.12**	**0.05**	**0.12**
PAH(total)	T149	AR	0.01	µg/l	**0.62**	**0.41**	**0.64**
TPH (C8-C10) DW	T81	AR	10	µg/l	<10	<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l	<10	<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l	**11**	<10	<10
TPH (C16-C21) DW	T81	AR	10	µg/l	**21**	**12**	**11**
TPH (C21-C35) DW	T81	AR	10	µg/l	**58**	**22**	**20**
TPH (C35-C40)	T81	AR	10	µg/l	<10	<10	<10
TPH (C8 - C40)	T85	AR	10	µg/l	**90**	**30**	**30**

Index to symbols used in Supplement 350954-1

Value	Description
AR	As Received
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Supplement issued to report corrected Nitrite result for sample 001

Method Index

Value	Description
T4	Colorimetry
T81	GC/FID (LV)
T16	GC/MS
T281	ICP/MS (Filtered)
T85	Calc
T7	Probe
T65	ICP/OES (Preconc.)
T149	GC/MS (SIR)
T686	Discrete Analyser
T2	Grav
T179	Colorimetry (XION 500)
T6	ICP/OES
T220	Colorimetry (SD)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
pH	T7	AR			U	001-003
As (Dissolved)	T281	AR	0.2	µg/l	U	001-003
Boron	T6	AR	10	µg/l	N	001-003
Cd (Dissolved)	T281	AR	0.02	µg/l	U	001-003
Cr (Dissolved)	T281	AR	1	µg/l	U	001-003
Chromium (trivalent)	T85	AR	3	µg/l	N	001-003
Chromium VI	T686	AR	3	µg/l	U	001-003
Cu (Dissolved)	T281	AR	0.5	µg/l	U	001-003
Pb (Dissolved)	T281	AR	0.3	µg/l	U	001-003
Hg (Dissolved)	T281	AR	0.05	µg/l	U	001-003
Ni (Dissolved)	T281	AR	1	µg/l	U	001-003
Se (Dissolved)	T281	AR	0.5	µg/l	U	001-003
Zn (Dissolved)	T281	AR	2	µg/l	U	001-003
Calcium	T6	AR	100	µg/l	N	001-003
Magnesium	T6	AR	100	µg/l	N	001-003
Potassium	T6	AR	100	µg/l	N	001-003
Sodium	T6	AR	100	µg/l	N	001-003
Nitrate	T686	AR	0.5	mg/l	U	001-003
Nitrite	T686	AR	0.1	mg/l	U	001-003
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	001-003
Sulphate	T686	AR	0.5	mg/l	U	001-003
Sulphide	T4	AR	0.05	mg/l	N	001-003
Sulphur (total)	T65	AR	0.01	mg/l	N	001-003
Chloride	T686	AR	1	mg/l	U	001-003
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	001-003
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	001-003
Suspended Solids (Total)	T2	AR	10	mg/l	N	001-003
Electrical Conductivity	T7	AR	10	µS/cm	N	001-003
Total Phenols	T16	AR	0.5	µg/l	U	001-003
Cyanide(Total)	T220	AR	10	µg/l	WU	001-003
Cyanide(free)	T220	AR	10	µg/l	WN	001-003
Acenaphthene	T149	AR	0.01	µg/l	U	001-003
Acenaphthylene	T149	AR	0.01	µg/l	U	001-003
Anthracene	T149	AR	0.01	µg/l	U	001-003
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	001-003

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	001-003
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	001-003
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	001-003
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	001-003
Chrysene	T149	AR	0.01	µg/l	U	001-003
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	001-003
Fluoranthene	T149	AR	0.01	µg/l	U	001-003
Fluorene	T149	AR	0.01	µg/l	U	001-003
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	001-003
Naphthalene	T149	AR	0.01	µg/l	U	001-003
Phenanthrene	T149	AR	0.01	µg/l	U	001-003
Pyrene	T149	AR	0.01	µg/l	U	001-003
PAH(total)	T149	AR	0.01	µg/l	U	001-003
TPH (C8-C10) DW	T81	AR	10	µg/l	U	001-003
TPH (C10-C12) DW	T81	AR	10	µg/l	U	001-003
TPH (C12-C16) DW	T81	AR	10	µg/l	U	001-003
TPH (C16-C21) DW	T81	AR	10	µg/l	U	001-003
TPH (C21-C35) DW	T81	AR	10	µg/l	U	001-003
TPH (C35-C40)	T81	AR	10	µg/l	N	001-003
TPH (C8 - C40)	T85	AR	10	µg/l	N	001-003

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 353522-1

Date of Report: 15-Oct-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 52W
Date Job Received at SAL: 02-Oct-2013
Date Analysis Started: 04-Oct-2013
Date Analysis Completed: 15-Oct-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
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Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

SAL Reference: 353522
Project Site: A63 Castle St - 52W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**353522 001**	**353522 002**	**353522 003**	**353522 004**	**353522 005**	**353522 006**
				Customer Sample Reference	**BH02 EW 001**	**BH04 EW 001**	**BH07 EW 001**	**BH12 EW 001**	**BH11 EW 001**	**BH13 EW 001**
				Date Sampled	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
pH	T7	AR			**7.5**	**7.4**	**7.6**	**7.9**	**8.1**	**7.4**
As (Dissolved)	T281	AR	0.2	µg/l	**72**	**48**	**79**	**68**	**19**	**42**
Boron	T6	AR	10	µg/l	**2100**	**460**	**1800**	**1900**	**1300**	**330**
Cd (Dissolved)	T281	AR	0.02	µg/l	**0.06**	**0.03**	**0.03**	**0.02**	<0.02	**0.18**
Cr (Dissolved)	T281	AR	1	µg/l	**15**	**29**	**61**	**17**	**40**	**54**
Chromium (trivalent)	T85	AR	3	µg/l	**15**	**29**	**61**	**17**	**40**	**51**
Chromium VI	T686	AR	3	µg/l	<3	<3	<3	<3	<3	**3**
Cu (Dissolved)	T281	AR	0.5	µg/l	**1500**	**3900**	**120**	**6500**	**17**	**2600**
Pb (Dissolved)	T281	AR	0.3	µg/l	**0.4**	<0.3	<0.3	<0.3	<0.3	**0.4**
Hg (Dissolved)	T281	AR	0.05	µg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l	**36**	**27**	**8**	**55**	**6**	**24**
Se (Dissolved)	T281	AR	0.5	µg/l	<0.5	<0.5	**23**	<0.5	**6.3**	<0.5
Zn (Dissolved)	T281	AR	2	µg/l	**3**	<2	<2	**3**	**3**	**35**
Calcium	T6	AR	100	µg/l	**300000**	**290000**	**56000**	**330000**	**53000**	**240000**
Magnesium	T6	AR	100	µg/l	**590000**	**270000**	**120000**	**570000**	**62000**	**230000**
Potassium	T6	AR	100	µg/l	**250000**	**110000**	**89000**	**230000**	**76000**	**74000**
Sodium	T6	AR	100	µg/l	**4100000**	**2600000**	**1200000**	**4000000**	**280000**	**2700000**
Fe (Dissolved)	T373	AR	10	µg/l	**900**	**1400**	**2000**	**280**	**200**	**230**
Fe (Total)	T303	AR	10	µg/l	**6400**	**8500**	**140000**	**4600**	**4000**	**13000**
Mn (Dissolved)	T373	AR	10	µg/l	**1500**	**3000**	**900**	**420**	**830**	**1700**
Mn (Total)	T303	AR	10	µg/l	**1300**	**3000**	**10000**	**480**	**890**	**1800**
Nitrate	T686	AR	0.5	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrite	T686	AR	0.1	mg/l	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulphate	T686	AR	0.5	mg/l	**1500**	**100**	<0.5	**1500**	**160**	**100**
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**450**	**47**	**2.1**	**440**	**71**	**44**
Chloride	T686	AR	1	mg/l	**9800**	**6800**	**2300**	**9800**	**2500**	**6500**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**1.6**	**13**	**18**	**2.0**	**12**	**8.7**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**2.1**	**16**	**23**	**2.5**	**16**	**11**
Suspended Solids (Total)	T2	AR	10	mg/l	**50**	**160**	**2200**	**150**	**130**	**300**
Electrical Conductivity	T7	AR	10	µS/cm	**27000**	**20000**	**8500**	**27000**	**3000**	**19000**
Total Phenols	T16	AR	0.5	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide(Total)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10
Cyanide(free)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.06**	<0.01	<0.01	<0.01
Acenaphthylene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.04**	<0.01	<0.01	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.02**	<0.01	<0.01	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	<0.01	<0.01	(110) <0.10	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.03**	<0.01	<0.01	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	(110) <0.10	<0.01	<0.01	<0.01
Fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.09**	<0.01	<0.01	<0.01
Fluorene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.04**	<0.01	<0.01	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	(110) <0.10	<0.01	<0.01	<0.01
Naphthalene	T149	AR	0.01	µg/l	**0.41**	**0.25**	**0.51**	**0.28**	**0.10**	**0.23**
Phenanthrene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.11**	<0.01	<0.01	<0.01
Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.07**	<0.01	<0.01	<0.01
PAH(total)	T149	AR	0.01	µg/l	**0.41**	**0.25**	**0.97**	**0.28**	**0.10**	**0.23**
TPH (C8-C10) DW	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l	<10	<10	**15**	<10	<10	<10
TPH (C16-C21) DW	T81	AR	10	µg/l	<10	<10	**45**	<10	<10	<10
TPH (C21-C35) DW	T81	AR	10	µg/l	<10	<10	**20**	<10	<10	<10

SAL Reference: 353522
Project Site: A63 Castle St - 52W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**353522 001**	**353522 002**	**353522 003**	**353522 004**	**353522 005**	**353522 006**
				Customer Sample Reference	**BH02 EW 001**	**BH04 EW 001**	**BH07 EW 001**	**BH12 EW 001**	**BH11 EW 001**	**BH13 EW 001**
				Date Sampled	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
TPH (C35-C40)	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10
TPH (C8 - C40)	T85	AR	10	µg/l	<10	<10	**90**	<10	<10	<10

SAL Reference: 353522
Project Site: A63 Castle St - 52W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

					SAL Reference	353522 007	353522 008	353522 009	353522 010	353522 011	353522 012
					Customer Sample Reference	BH19 EW 001	BH22 EW 001	BH20 EW 001	BH32 EW 001	BH33 EW 001	BH34 EW 001
					Date Sampled	01-OCT-2013	01-OCT-2013	01-OCT-2013	01-OCT-2013	01-OCT-2013	01-OCT-2013
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
pH	T7	AR				**8.0**	**8.0**	**7.3**	**7.9**	**7.5**	**7.7**
As (Dissolved)	T281	AR	0.2	µg/l		**53**	**91**	**43**	**60**	**64**	**34**
Boron	T6	AR	10	µg/l		**1600**	**1600**	**710**	**1200**	**1900**	**410**
Cd (Dissolved)	T281	AR	0.02	µg/l		<0.02	<0.02	**0.02**	<0.02	**0.03**	**0.03**
Cr (Dissolved)	T281	AR	1	µg/l		**91**	**78**	**42**	**44**	**16**	**35**
Chromium (trivalent)	T85	AR	3	µg/l		**91**	**78**	**39**	**44**	**16**	**35**
Chromium VI	T686	AR	3	µg/l		<3	<3	**3**	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l		**68**	**63**	**1400**	**36**	**4500**	**74**
Pb (Dissolved)	T281	AR	0.3	µg/l		<0.3	**0.3**	<0.3	<0.3	<0.3	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l		**4**	**6**	**19**	**6**	**40**	**20**
Se (Dissolved)	T281	AR	0.5	µg/l		**25**	**22**	<0.5	**13**	<0.5	**24**
Zn (Dissolved)	T281	AR	2	µg/l		<2	<2	**4**	<2	**3**	**4**
Calcium	T6	AR	100	µg/l		**57000**	**59000**	**260000**	**100000**	**240000**	**150000**
Magnesium	T6	AR	100	µg/l		**120000**	**110000**	**260000**	**110000**	**520000**	**110000**
Potassium	T6	AR	100	µg/l		**91000**	**100000**	**83000**	**88000**	**220000**	**58000**
Sodium	T6	AR	100	µg/l		**1100000**	**970000**	**2200000**	**550000**	**3600000**	**890000**
Fe (Dissolved)	T373	AR	10	µg/l		**650**	**3300**	**240**	**300**	**280**	**190**
Fe (Total)	T303	AR	10	µg/l		**120000**	**20000**	**130000**	**86000**	**8600**	**27000**
Mn (Dissolved)	T373	AR	10	µg/l		**320**	**1100**	**2400**	**960**	**500**	**460**
Mn (Total)	T303	AR	10	µg/l		**8500**	**1600**	**9800**	**4800**	**450**	**1100**
Nitrate	T686	AR	0.5	mg/l		<0.5	<0.5	<0.5	<0.5	<0.5	**17**
Nitrite	T686	AR	0.1	mg/l		**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**
Total Oxidised Nitrogen	T686	AR	0.1	mg/l		<0.1	<0.1	<0.1	<0.1	<0.1	**4.0**
Sulphate	T686	AR	0.5	mg/l		**35**	**13**	**260**	**350**	**1400**	**3300**
Sulphide	T4	AR	0.05	mg/l		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l		**15**	**5.9**	**120**	**140**	**440**	**23**
Chloride	T686	AR	1	mg/l		**1300**	**1500**	**4000**	**2200**	**9400**	**3300**
Ammoniacal nitrogen	T179	AR	0.015	mg/l		**16**	**16**	**5.9**	**14**	**1.7**	**9.8**
Ammonia expressed as NH4	T179	AR	0.019	mg/l		**21**	**21**	**7.6**	**19**	**2.2**	**13**
Suspended Solids (Total)	T2	AR	10	mg/l		**430**	**580**	**2400**	**2100**	**25**	**220**
Electrical Conductivity	T7	AR	10	µS/cm		**8700**	**7000**	**18000**	**4900**	**26000**	**7200**
Total Phenols	T16	AR	0.5	µg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide(Total)	T220	AR	10	µg/l		<10	**150**	<10	<10	<10	<10
Cyanide(free)	T220	AR	10	µg/l		<10	<10	<10	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	**0.02**	<0.01	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l		<0.01	<0.01	(110) <0.10	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	**0.02**	<0.01	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l		<0.01	<0.01	(110) <0.10	<0.01	<0.01	<0.01
Fluoranthene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	**0.03**	<0.01	<0.01
Fluorene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l		<0.01	<0.01	(110) <0.10	<0.01	<0.01	<0.01
Naphthalene	T149	AR	0.01	µg/l		**0.14**	**0.30**	**0.31**	**0.20**	**0.24**	**0.19**
Phenanthrene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	**0.05**	<0.01	<0.01
Pyrene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	**0.03**	<0.01	<0.01
PAH(total)	T149	AR	0.01	µg/l		**0.14**	**0.30**	**0.31**	**0.35**	**0.24**	**0.19**
TPH (C8-C10) DW	T81	AR	10	µg/l		<10	<10	<10	<10	<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l		<10	<10	**15**	<10	<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l		<10	<10	**76**	<10	<10	<10
TPH (C16-C21) DW	T81	AR	10	µg/l		**10**	<10	**43**	<10	<10	<10
TPH (C21-C35) DW	T81	AR	10	µg/l		**23**	**24**	**42**	<10	<10	<10

SAL Reference: 353522
Project Site: A63 Castle St - 52W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**353522 007**	**353522 008**	**353522 009**	**353522 010**	**353522 011**	**353522 012**
				Customer Sample Reference	**BH19 EW 001**	**BH22 EW 001**	**BH20 EW 001**	**BH32 EW 001**	**BH33 EW 001**	**BH34 EW 001**
				Date Sampled	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**	**01-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
TPH (C35-C40)	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10
TPH (C8 - C40)	T85	AR	10	µg/l	**30**	**20**	**180**	<10	<10	<10

Index to symbols used in 353522-1

Value	Description
AR	As Received
110	LOD raised due to low internal standard recovery.
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T2	Grav
T149	GC/MS (SIR)
T81	GC/FID (LV)
T16	GC/MS
T220	Colorimetry (SD)
T281	ICP/MS (Filtered)
T373	ICP/OES (Filtered)
T85	Calc
T179	Colorimetry (XION 500)
T303	ICP-OES (Total)
T7	Probe
T6	ICP/OES
T65	ICP/OES (Preconc.)
T4	Colorimetry
T686	Discrete Analyser

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
pH	T7	AR			U	001-012
As (Dissolved)	T281	AR	0.2	µg/l	U	001-012
Boron	T6	AR	10	µg/l	N	001-012
Cd (Dissolved)	T281	AR	0.02	µg/l	U	001-012
Cr (Dissolved)	T281	AR	1	µg/l	U	001-012
Chromium (trivalent)	T85	AR	3	µg/l	N	001-012
Chromium VI	T686	AR	3	µg/l	U	001-012
Cu (Dissolved)	T281	AR	0.5	µg/l	U	001-012
Pb (Dissolved)	T281	AR	0.3	µg/l	U	001-012
Hg (Dissolved)	T281	AR	0.05	µg/l	U	001-012
Ni (Dissolved)	T281	AR	1	µg/l	U	001-012
Se (Dissolved)	T281	AR	0.5	µg/l	U	001-012
Zn (Dissolved)	T281	AR	2	µg/l	U	001-012
Calcium	T6	AR	100	µg/l	N	001-012
Magnesium	T6	AR	100	µg/l	N	001-012
Potassium	T6	AR	100	µg/l	N	001-012
Sodium	T6	AR	100	µg/l	N	001-012
Fe (Dissolved)	T373	AR	10	µg/l	U	001-012
Fe (Total)	T303	AR	10	µg/l	U	001-012
Mn (Dissolved)	T373	AR	10	µg/l	U	001-012
Mn (Total)	T303	AR	10	µg/l	U	001-012
Nitrate	T686	AR	0.5	mg/l	U	001-012

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Nitrite	T686	AR	0.1	mg/l	U	001-012
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	001-012
Sulphate	T686	AR	0.5	mg/l	U	001-012
Sulphide	T4	AR	0.05	mg/l	N	001-012
Sulphur (total)	T65	AR	0.01	mg/l	N	001-012
Chloride	T686	AR	1	mg/l	U	001-012
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	001-012
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	001-012
Suspended Solids (Total)	T2	AR	10	mg/l	N	001-012
Electrical Conductivity	T7	AR	10	µS/cm	N	001-012
Total Phenols	T16	AR	0.5	µg/l	U	001-012
Cyanide(Total)	T220	AR	10	µg/l	WU	001-012
Cyanide(free)	T220	AR	10	µg/l	WN	001-012
Acenaphthene	T149	AR	0.01	µg/l	U	001-012
Acenaphthylene	T149	AR	0.01	µg/l	U	001-012
Anthracene	T149	AR	0.01	µg/l	U	001-012
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	001-012
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	001-012
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	001-012
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	001-012
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	001-012
Chrysene	T149	AR	0.01	µg/l	U	001-012
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	001-012
Fluoranthene	T149	AR	0.01	µg/l	U	001-012
Fluorene	T149	AR	0.01	µg/l	U	001-012
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	001-012
Naphthalene	T149	AR	0.01	µg/l	U	001-012
Phenanthrene	T149	AR	0.01	µg/l	U	001-012
Pyrene	T149	AR	0.01	µg/l	U	001-012
PAH(total)	T149	AR	0.01	µg/l	U	001-012
TPH (C8-C10) DW	T81	AR	10	µg/l	U	001-012
TPH (C10-C12) DW	T81	AR	10	µg/l	U	001-012
TPH (C12-C16) DW	T81	AR	10	µg/l	U	001-012
TPH (C16-C21) DW	T81	AR	10	µg/l	U	001-012
TPH (C21-C35) DW	T81	AR	10	µg/l	U	001-012
TPH (C35-C40)	T81	AR	10	µg/l	N	001-012
TPH (C8 - C40)	T85	AR	10	µg/l	N	001-012

Scientific Analysis Laboratories is a limited company registered in England and Wales (No 2514788) whose address is at Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 353722-1

Date of Report: 18-Oct-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 53W
Date Job Received at SAL: 03-Oct-2013
Date Analysis Started: 07-Oct-2013
Date Analysis Completed: 18-Oct-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

Report checked and authorised by :
Mr Ross Walker
Customer Services Manager (Land)

Issued by :
Mr Ross Walker
Customer Services Manage (Land)

[redacted]

SAL Reference: 353722
Project Site: A63 Castle St - 53W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**353722 001**	**353722 002**	**353722 003**	**353722 004**	**353722 005**	**353722 006**	**353722 007**	**353722 008**	**353722 009**	**353722 010**	**353722 011**	**353722 012**
				Customer Sample Reference	**BH37 EW 001**	**BH38 EW 001**	**BH40A EW 001**	**BH44 EW 001**	**BH46 EW 001**	**BH45 EW 001**	**BH43 EW 001**	**BH41A EW 001**	**BH25 EW 001**	**BH27 EW 001**	**BH28 EW 001**	**D1 EW 001**
				Date Sampled	**02-OCT-2013**	**02-OCT-2013**	**02-OCT-2013**	**02-OCT-2013**	**02-OCT-2013**	**02-OCT-2013**	**02-OCT-2013**	**02-OCT-2013**	**02-OCT-2013**	**02-OCT-2013**	**02-OCT-2013**	**02-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**												
pH	T7	AR			**7.7**	**7.7**	**7.1**	**7.3**	**7.4**	**7.0**	**7.2**	**7.5**	**6.9**	**7.5**	**6.8**	**6.8**
As (Dissolved)	T281	AR	0.2	µg/l	**62**	**55**	**18**	**9.9**	**23**	**34**	**11**	**53**	**93**	**62**	**47**	**63**
Boron	T6	AR	10	µg/l	**1300**	**1400**	**940**	**1000**	**1200**	**1400**	**910**	**1900**	**620**	**1100**	**470**	**460**
Cd (Dissolved)	T281	AR	0.02	µg/l	**0.04**	**0.03**	<0.02	<0.02	<0.02	**0.03**	<0.02	**0.24**	**0.04**	<0.02	**0.04**	**0.03**
Cr (Dissolved)	T281	AR	1	µg/l	**51**	**57**	**31**	**29**	**55**	**34**	**23**	**11**	**60**	**41**	**47**	**47**
Chromium (trivalent)	T85	AR	3	µg/l	**51**	**57**	**31**	**29**	**55**	**34**	**23**	**11**	**60**	**41**	**47**	**47**
Chromium VI	T686	AR	3	µg/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**17**	**11**	**13**	**7.3**	**15**	**45**	**7.5**	**150**	**5100**	**31**	**120**	**210**
Pb (Dissolved)	T281	AR	0.3	µg/l	**0.7**	**0.7**	**0.6**	**0.6**	**0.4**	**0.3**	**0.4**	<0.3	<0.3	<0.3	**0.3**	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l	**5**	**7**	**13**	**4**	**7**	**14**	**9**	**25**	**24**	**8**	**38**	**40**
Se (Dissolved)	T281	AR	0.5	µg/l	**17**	**17**	**22**	**12**	**29**	**48**	**12**	<0.5	<0.5	**14**	**38**	<0.5
Zn (Dissolved)	T281	AR	2	µg/l	<2	<2	<2	<2	<2	**3**	<2	**6**	**4**	<2	**3**	**3**
Calcium	T6	AR	100	µg/l	**87000**	**82000**	**450000**	**120000**	**170000**	**250000**	**210000**	**200000**	**270000**	**87000**	**380000**	**380000**
Magnesium	T6	AR	100	µg/l	**110000**	**110000**	**140000**	**97000**	**160000**	**260000**	**100000**	**440000**	**320000**	**99000**	**320000**	**330000**
Potassium	T6	AR	100	µg/l	**79000**	**110000**	**170000**	**88000**	**130000**	**160000**	**120000**	**200000**	**110000**	**95000**	**83000**	**88000**
Sodium	T6	AR	100	µg/l	**670000**	**550000**	**410000**	**300000**	**870000**	**1600000**	**290000**	**3000000**	**2700000**	**390000**	**2500000**	**2600000**
Fe (Dissolved)	T373	AR	10	µg/l	**170**	**220**	**9600**	**190**	**1100**	**220**	**130**	**250**	**24000**	**940**	**270**	**2000**
Fe (Total)	T303	AR	10	µg/l	**64000**	**28000**	**32000**	**14000**	**52000**	**21000**	**78000**	**8600**	**80000**	**92000**	**58000**	**130000**
Mn (Dissolved)	T373	AR	10	µg/l	**560**	**930**	**720**	**410**	**500**	**670**	**960**	**140**	**1600**	**810**	**2600**	**2500**
Mn (Total)	T303	AR	10	µg/l	**3200**	**1300**	**1400**	**660**	**2000**	**1100**	**6000**	**640**	**2900**	**4700**	**4300**	**6500**
Nitrate	T686	AR	0.5	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrite	T686	AR	0.1	mg/l	**0.6**	**0.4**	<0.1	**0.8**	**2.0**	**0.5**	**0.3**	<0.1	<0.1	<0.1	<0.1	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	**0.2**	<0.1	<0.1	**0.2**	**0.7**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulphate	T686	AR	0.5	mg/l	**250**	**91**	**410**	**93**	**17**	**480**	**220**	**1100**	**45**	**53**	**71**	**63**
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**89**	**29**	**150**	**38**	**5.7**	**170**	**83**	**370**	**8.5**	**8.9**	**22**	**20**
Chloride	T686	AR	1	mg/l	**900**	**900**	**1600**	**760**	**1900**	**3000**	**840**	**7900**	**6600**	**990**	**6900**	**6700**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**6.9**	**19**	**6.7**	**14**	**27**	**10**	**5.1**	**0.63**	**34**	**14**	**30**	**30**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**8.9**	**25**	**8.6**	**18**	**35**	**13**	**6.6**	**0.81**	**44**	**18**	**39**	**38**
Suspended Solids (Total)	T2	AR	10	mg/l	**25**	**36**	**64**	**35**	**14**	**26**	**130**	**24**	**19**	**97**	**14**	**26**
Electrical Conductivity	T7	AR	10	µS/cm	**5300**	**4700**	**6600**	**3800**	**7500**	**13000**	**3500**	**21000**	**19000**	**3500**	**19000**	**18000**
Total Phenols	T16	AR	0.5	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide(Total)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Cyanide(free)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l	<0.01	**0.01**	**0.01**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.01**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.01**	<0.01	<0.01	<0.01	<0.01	**0.02**	<0.01	<0.01	<0.01	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01	**0.01**	**0.01**	<0.01	<0.01	**0.02**	**0.01**	**0.05**	**0.01**	<0.01	<0.01	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l	<0.01	**0.01**	**0.02**	<0.01	<0.01	**0.02**	<0.01	**0.04**	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	**0.01**	**0.02**	**0.02**	<0.01	<0.01	**0.02**	**0.02**	**0.04**	**0.02**	<0.01	<0.01	**0.01**
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	**0.01**	**0.02**	**0.03**	<0.01	<0.01	**0.02**	**0.03**	**0.04**	**0.01**	**0.01**	<0.01	**0.01**
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	**0.01**	**0.01**	**0.02**	<0.01	<0.01	**0.02**	**0.01**	**0.04**	**0.01**	<0.01	<0.01	<0.01
Chrysene	T149	AR	0.01	µg/l	**0.01**	**0.02**	**0.02**	<0.01	<0.01	**0.02**	**0.02**	**0.05**	**0.02**	<0.01	<0.01	**0.01**
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.03**	<0.01	<0.01	<0.01	<0.01	**0.01**	<0.01	<0.01	<0.01	<0.01
Fluoranthene	T149	AR	0.01	µg/l	**0.01**	**0.01**	**0.01**	<0.01	<0.01	**0.03**	**0.01**	**0.08**	**0.01**	<0.01	<0.01	**0.01**
Fluorene	T149	AR	0.01	µg/l	<0.01	**0.01**	**0.01**	<0.01	<0.01	<0.01	**0.01**	**0.01**	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	<0.01	**0.02**	**0.03**	<0.01	<0.01	**0.01**	**0.01**	**0.04**	<0.01	<0.01	<0.01	<0.01
Naphthalene	T149	AR	0.01	µg/l	**0.35**	**0.21**	**0.14**	**0.10**	**0.03**	**0.30**	**0.09**	**0.02**	**0.31**	**0.19**	**0.15**	**0.16**
Phenanthrene	T149	AR	0.01	µg/l	**0.02**	**0.03**	**0.02**	<0.01	<0.01	**0.03**	**0.03**	**0.05**	**0.02**	**0.01**	<0.01	**0.02**
Pyrene	T149	AR	0.01	µg/l	**0.01**	**0.02**	**0.02**	<0.01	<0.01	**0.03**	**0.02**	**0.07**	**0.01**	<0.01	<0.01	**0.01**
PAH(total)	T149	AR	0.01	µg/l	**0.43**	**0.40**	**0.41**	**0.10**	**0.03**	**0.52**	**0.26**	**0.56**	**0.42**	**0.21**	**0.15**	**0.23**
TPH (C8-C10) DW	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

SAL Reference: 353722
Project Site: A63 Castle St - 53W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

SAL Reference	353722 001	353722 002	353722 003	353722 004	353722 005	353722 006	353722 007	353722 008	353722 009	353722 010	353722 011	353722 012
Customer Sample Reference	BH37 EW 001	BH38 EW 001	BH40A EW 001	BH44 EW 001	BH46 EW 001	BH45 EW 001	BH43 EW 001	BH41A EW 001	BH25 EW 001	BH27 EW 001	BH28 EW 001	D1 EW 001
Date Sampled	02-OCT-2013	02-OCT-2013	02-OCT-2013	02-OCT-2013	02-OCT-2013	02-OCT-2013	02-OCT-2013	02-OCT-2013	02-OCT-2013	02-OCT-2013	02-OCT-2013	02-OCT-2013

Determinand	Method	Test Sample	LOD	Units												
TPH (C16-C21) DW	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (C21-C35) DW	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (C35-C40)	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (C8 - C40)	T85	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Index to symbols used in 353722-1

Value	Description
AR	As Received
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T179	Colorimetry (XION 500)
T65	ICP/OES (Preconc.)
T303	ICP-OES (Total)
T149	GC/MS (SIR)
T16	GC/MS
T220	Colorimetry (SD)
T686	Discrete Analyser
T85	Calc
T7	Probe
T81	GC/FID (LV)
T281	ICP/MS (Filtered)
T2	Grav
T373	ICP/OES (Filtered)
T4	Colorimetry
T6	ICP/OES

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
pH	T7	AR			U	001-012
As (Dissolved)	T281	AR	0.2	µg/l	U	001-012
Boron	T6	AR	10	µg/l	N	001-012
Cd (Dissolved)	T281	AR	0.02	µg/l	U	001-012
Cr (Dissolved)	T281	AR	1	µg/l	U	001-012
Chromium (trivalent)	T85	AR	3	µg/l	N	001-012
Chromium VI	T686	AR	3	µg/l	U	001-012
Cu (Dissolved)	T281	AR	0.5	µg/l	U	001-012
Pb (Dissolved)	T281	AR	0.3	µg/l	U	001-012
Hg (Dissolved)	T281	AR	0.05	µg/l	U	001-012
Ni (Dissolved)	T281	AR	1	µg/l	U	001-012
Se (Dissolved)	T281	AR	0.5	µg/l	U	001-012
Zn (Dissolved)	T281	AR	2	µg/l	U	001-012
Calcium	T6	AR	100	µg/l	N	001-012
Magnesium	T6	AR	100	µg/l	N	001-012
Potassium	T6	AR	100	µg/l	N	001-012
Sodium	T6	AR	100	µg/l	N	001-012
Fe (Dissolved)	T373	AR	10	µg/l	U	001-012
Fe (Total)	T303	AR	10	µg/l	U	001-012

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Mn (Dissolved)	T373	AR	10	µg/l	U	001-012
Mn (Total)	T303	AR	10	µg/l	U	001-012
Nitrate	T686	AR	0.5	mg/l	U	001-012
Nitrite	T686	AR	0.1	mg/l	U	001-012
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	001-012
Sulphate	T686	AR	0.5	mg/l	U	001-012
Sulphide	T4	AR	0.05	mg/l	N	001-012
Sulphur (total)	T65	AR	0.01	mg/l	N	001-012
Chloride	T686	AR	1	mg/l	U	001-012
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	001-012
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	001-012
Suspended Solids (Total)	T2	AR	10	mg/l	N	001-012
Electrical Conductivity	T7	AR	10	µS/cm	N	001-012
Total Phenols	T16	AR	0.5	µg/l	U	001-012
Cyanide(Total)	T220	AR	10	µg/l	WU	001-012
Cyanide(free)	T220	AR	10	µg/l	WN	001-012
Acenaphthene	T149	AR	0.01	µg/l	U	001-012
Acenaphthylene	T149	AR	0.01	µg/l	U	001-012
Anthracene	T149	AR	0.01	µg/l	U	001-012
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	001-012
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	001-012
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	001-012
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	001-012
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	001-012
Chrysene	T149	AR	0.01	µg/l	U	001-012
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	001-012
Fluoranthene	T149	AR	0.01	µg/l	U	001-012
Fluorene	T149	AR	0.01	µg/l	U	001-012
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	001-012
Naphthalene	T149	AR	0.01	µg/l	U	001-012
Phenanthrene	T149	AR	0.01	µg/l	U	001-012
Pyrene	T149	AR	0.01	µg/l	U	001-012
PAH(total)	T149	AR	0.01	µg/l	U	001-012
TPH (C8-C10) DW	T81	AR	10	µg/l	U	001-012
TPH (C10-C12) DW	T81	AR	10	µg/l	U	001-012
TPH (C12-C16) DW	T81	AR	10	µg/l	U	001-012
TPH (C16-C21) DW	T81	AR	10	µg/l	U	001-012
TPH (C21-C35) DW	T81	AR	10	µg/l	U	001-012
TPH (C35-C40)	T81	AR	10	µg/l	N	001-012
TPH (C8 - C40)	T85	AR	10	µg/l	N	001-012

Scientific Analysis Laboratories is a limited company registered in England and Wales (No 2514788) whose address is at Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 354130-1

Date of Report: 21-Oct-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 54W
Date Job Received at SAL: 04-Oct-2013
Date Analysis Started: 09-Oct-2013
Date Analysis Completed: 21-Oct-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

Report checked and authorised by :
Lianne Bromiley
Assistant Customer Service Manager

Issued by :
Lianne Bromiley
Assistant Customer Servic
Manager

SAL Reference: 354130
Project Site: A63 Castle St - 54W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**354130 001**	**354130 002**	**354130 003**	**354130 004**	**354130 005**	**354130 006**	**354130 007**	**354130 008**
				Customer Sample Reference	**BH01 EW 001**	**BH-3 EW 001**	**BH05 EW 001**	**BH06 EW 001**	**BH18A EW 001**	**BH15 EW 001**	**BH24 EW 001**	**BH26 EW 001**
				Date Sampled	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
pH	T7	AR			**7.1**	**7.1**	**7.2**	**7.2**	**7.2**	**7.3**	**7.2**	**6.8**
As (Dissolved)	T281	AR	0.2	µg/l	**52**	**69**	**66**	**70**	**72**	**66**	**68**	**65**
Boron	T6	AR	10	µg/l	**1400**	**1900**	**1300**	**1500**	**2000**	**1100**	**2000**	**300**
Cd (Dissolved)	T281	AR	0.02	µg/l	**0.05**	**0.06**	**0.04**	**0.04**	**0.05**	**0.03**	**0.07**	**0.05**
Cr (Dissolved)	T281	AR	1	µg/l	**47**	**15**	**56**	**23**	**14**	**63**	**16**	**67**
Chromium (trivalent)	T85	AR	3	µg/l	**47**	**15**	**56**	**19**	**14**	**63**	**16**	**67**
Chromium VI	T686	AR	3	µg/l	<3	<3	<3	**4**	<3	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**93**	**290**	**200**	**390**	**510**	**180**	**520**	**1500**
Pb (Dissolved)	T281	AR	0.3	µg/l	**0.7**	<0.3	<0.3	<0.3	<0.3	<0.3	**0.5**	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l	**0.07**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l	**22**	**36**	**13**	**43**	**39**	**27**	**57**	**36**
Se (Dissolved)	T281	AR	0.5	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	**34**	<0.5	<0.5
Zn (Dissolved)	T281	AR	2	µg/l	**4**	**7**	**4**	**6**	**15**	**7**	**13**	**7**
Calcium	T6	AR	100	µg/l	**160000**	**300000**	**100000**	**340000**	**250000**	**260000**	**200000**	**330000**
Magnesium	T6	AR	100	µg/l	**310000**	**510000**	**270000**	**460000**	**520000**	**220000**	**530000**	**290000**
Potassium	T6	AR	100	µg/l	**90000**	**200000**	**97000**	**140000**	**210000**	**72000**	**220000**	**87000**
Sodium	T6	AR	100	µg/l	**2700000**	**3600000**	**2500000**	**3300000**	**3600000**	**2200000**	**3900000**	**2300000**
Fe (Dissolved)	T373	AR	10	µg/l	**260**	**240**	**3300**	**970**	**230**	**430**	**250**	**7300**
Fe (Total)	T303	AR	10	µg/l	**48000**	**47000**	**140000**	**250000**	**8600**	**67000**	**4600**	**200000**
Mn (Dissolved)	T373	AR	10	µg/l	**1800**	**1300**	**790**	**920**	**510**	**820**	**460**	**5400**
Mn (Total)	T303	AR	10	µg/l	**5200**	**2800**	**3400**	**9300**	**550**	**2400**	**470**	**11000**
Nitrate	T686	AR	0.5	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrite	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1	**0.1**	<0.1	<0.1	**0.2**	**0.1**
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**0.2**	**0.1**
Sulphate	T686	AR	0.5	mg/l	**99**	**1200**	**4.8**	**1000**	**1300**	**76**	**1300**	**30**
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**25**	**410**	**4.1**	**350**	**420**	**23**	**420**	**14**
Chloride	T686	AR	1	mg/l	**6900**	**9200**	**6200**	**8100**	**9500**	**5200**	**11000**	**6600**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**19**	**2.8**	**33**	**3.8**	**1.7**	**22**	**1.1**	**50**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**25**	**3.6**	**42**	**4.8**	**2.2**	**29**	**1.4**	**64**
Suspended Solids (Total)	T2	AR	10	mg/l	**87**	<10	**730**	**150**	**55**	**36**	<10	**2800**
Electrical Conductivity	T7	AR	10	µS/cm	**20000**	**25000**	**19000**	**23000**	**25000**	**16000**	**25000**	**19000**
Total Phenols	T16	AR	0.5	µg/l	<0.5	<0.5	**0.8**	<0.5	<0.5	<0.5	<0.5	**2.4**
Cyanide(Total)	T220	AR	10	µg/l	**14**	**26**	**35**	**22**	**18**	**10**	**26**	**48**
Cyanide(free)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l	**0.03**	**0.02**	<0.01	<0.01	**0.05**	**0.02**	<0.01	**0.06**
Acenaphthylene	T149	AR	0.01	µg/l	**0.11**	**0.08**	<0.01	**0.02**	**0.23**	**0.03**	<0.01	**0.04**
Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	**0.06**	<0.01	<0.01	**0.02**
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	**0.02**	<0.01	<0.01	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	**0.02**	<0.01	<0.01	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	**0.04**	<0.01	<0.01	<0.01
Fluorene	T149	AR	0.01	µg/l	**0.03**	**0.02**	<0.01	**0.01**	**0.09**	**0.02**	<0.01	**0.05**
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Naphthalene	T149	AR	0.01	µg/l	**4.7**	**3.6**	**0.48**	**0.63**	**3.3**	**0.49**	**0.34**	**0.48**
Phenanthrene	T149	AR	0.01	µg/l	**0.02**	**0.02**	<0.01	**0.03**	**0.19**	**0.01**	<0.01	**0.01**
Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	**0.06**	<0.01	<0.01	<0.01
PAH(total)	T149	AR	0.01	µg/l	**4.9**	**3.7**	**0.48**	**0.69**	**4.1**	**0.57**	**0.34**	**0.66**
TPH (C8-C10) DW	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l	**280**	<10	<10	<10	<10	<10	<10	<10
TPH (C16-C21) DW	T81	AR	10	µg/l	**36**	<10	<10	<10	<10	<10	<10	**17**
TPH (C21-C35) DW	T81	AR	10	µg/l	**46**	<10	<10	<10	**51**	**150**	**33**	**44**

SAL Reference: 354130
Project Site: A63 Castle St - 54W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

	SAL Reference	**354130 001**	**354130 002**	**354130 003**	**354130 004**	**354130 005**	**354130 006**	**354130 007**	**354130 008**
	Customer Sample Reference	**BH01 EW 001**	**BH-3 EW 001**	**BH05 EW 001**	**BH06 EW 001**	**BH18A EW 001**	**BH15 EW 001**	**BH24 EW 001**	**BH26 EW 001**
	Date Sampled	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
TPH (C35-C40)	T81	AR	10	µg/l	<10	<10	<10	<10	<10	**12**	<10	<10
TPH (C8 - C40)	T85	AR	10	µg/l	**370**	<10	<10	<10	**50**	**160**	**30**	**60**

SAL Reference: 354130
Project Site: A63 Castle St - 54W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**354130 009**	**354130 010**	**354130 011**	**354130 012**	**354130 013**	**354130 014**	**354130 015**
				Customer Sample Reference	**BH21 EW 001**	**BH14 EW 001**	**BH47 EW 001**	**BH42 EW 001**	**BH30 EW 001**	**BH35 SHALLOW EW 001**	**BH35 DEEP EW 001**
				Date Sampled	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**03-OCT-2013**	**04-OCT-2013**	**04-OCT-2013**	**04-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
pH	T7	AR			**7.0**	**6.9**	**7.2**	**7.1**	**6.9**	**7.7**	**7.8**
As (Dissolved)	T281	AR	0.2	µg/l	**65**	**55**	**130**	**37**	**48**	**68**	**58**
Boron	T6	AR	10	µg/l	**1900**	**390**	**1400**	**1400**	**1400**	**1800**	**860**
Cd (Dissolved)	T281	AR	0.02	µg/l	**0.05**	**0.04**	**0.03**	**0.03**	**0.05**	**0.04**	**0.05**
Cr (Dissolved)	T281	AR	1	µg/l	**16**	**44**	**67**	**33**	**44**	**49**	**66**
Chromium (trivalent)	T85	AR	3	µg/l	**16**	**44**	**67**	**33**	**44**	**49**	**66**
Chromium VI	T686	AR	3	µg/l	<3	<3	<3	<3	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**580**	**320**	**240**	**170**	**2900**	**64**	**130**
Pb (Dissolved)	T281	AR	0.3	µg/l	<0.3	<0.3	**0.5**	<0.3	<0.3	<0.3	**0.6**
Hg (Dissolved)	T281	AR	0.05	µg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.14**
Ni (Dissolved)	T281	AR	1	µg/l	**32**	**41**	**23**	**21**	**16**	**9**	**42**
Se (Dissolved)	T281	AR	0.5	µg/l	<0.5	**1.3**	<0.5	**51**	<0.5	**32**	**60**
Zn (Dissolved)	T281	AR	2	µg/l	**5**	**10**	**8**	**4**	**7**	**7**	**10**
Calcium	T6	AR	100	µg/l	**190000**	**370000**	**200000**	**150000**	**300000**	**61000**	**84000**
Magnesium	T6	AR	100	µg/l	**490000**	**250000**	**380000**	**280000**	**240000**	**110000**	**150000**
Potassium	T6	AR	100	µg/l	**190000**	**110000**	**130000**	**120000**	**150000**	**100000**	**89000**
Sodium	T6	AR	100	µg/l	**3500000**	**2400000**	**2900000**	**2000000**	**2200000**	**1200000**	**1700000**
Fe (Dissolved)	T373	AR	10	µg/l	**350**	**720**	**4300**	**240**	**26000**	**480**	**860**
Fe (Total)	T303	AR	10	µg/l	**11000**	**560000**	**15000**	**11000**	**51000**	**9500**	**8900**
Mn (Dissolved)	T373	AR	10	µg/l	**360**	**1600**	**610**	**470**	**1100**	**420**	**250**
Mn (Total)	T303	AR	10	µg/l	**370**	**22000**	**680**	**540**	**1600**	**610**	**430**
Nitrate	T686	AR	0.5	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrite	T686	AR	0.1	mg/l	**0.2**	**0.1**	<0.1	<0.1	<0.1	<0.1	**0.1**
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulphate	T686	AR	0.5	mg/l	**1200**	**190**	<0.5	**510**	<0.5	**46**	**9.6**
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**400**	**80**	**2.1**	**190**	**3.7**	**18**	**50**
Chloride	T686	AR	1	mg/l	**8800**	**6600**	**7400**	**4900**	**6100**	**2100**	**7400**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**1.9**	**22**	**44**	**8.8**	**31**	**18**	**28**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**2.5**	**29**	**57**	**11**	**39**	**24**	**35**
Suspended Solids (Total)	T2	AR	10	mg/l	**24**	**14000**	**40**	**130**	**14**	<10	**130**
Electrical Conductivity	T7	AR	10	µS/cm	**24000**	**19000**	**21000**	**15000**	**18000**	**8700**	**11000**
Total Phenols	T16	AR	0.5	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide(Total)	T220	AR	10	µg/l	**17**	**15**	**29**	**24**	**24**	**27**	**54**
Cyanide(free)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l	**0.04**	**0.07**	<0.01	<0.01	**0.08**	<0.01	**0.02**
Acenaphthylene	T149	AR	0.01	µg/l	**0.01**	**0.01**	<0.01	<0.01	**0.07**	**0.01**	**0.02**
Anthracene	T149	AR	0.01	µg/l	<0.01	**0.15**	<0.01	<0.01	**0.04**	<0.01	**0.04**
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01	**0.18**	<0.01	<0.01	**0.01**	**0.01**	**0.04**
Benzo(a)Pyrene	T149	AR	0.01	µg/l	<0.01	**0.18**	<0.01	<0.01	<0.01	<0.01	**0.05**
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	<0.01	**0.25**	<0.01	<0.01	<0.01	**0.02**	**0.06**
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	<0.01	**0.16**	<0.01	<0.01	<0.01	<0.01	**0.04**
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	<0.01	**0.13**	<0.01	<0.01	<0.01	**0.02**	**0.06**
Chrysene	T149	AR	0.01	µg/l	<0.01	**0.32**	<0.01	<0.01	**0.01**	**0.02**	**0.05**
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	<0.01	**0.03**	<0.01	<0.01	<0.01	<0.01	**0.04**
Fluoranthene	T149	AR	0.01	µg/l	<0.01	**0.36**	<0.01	<0.01	**0.02**	**0.02**	**0.05**
Fluorene	T149	AR	0.01	µg/l	<0.01	**0.15**	<0.01	<0.01	**0.08**	**0.02**	**0.03**
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	<0.01	**0.05**	<0.01	<0.01	<0.01	<0.01	**0.04**
Naphthalene	T149	AR	0.01	µg/l	**0.44**	**0.45**	**0.34**	**0.22**	**0.32**	**0.40**	**0.03**
Phenanthrene	T149	AR	0.01	µg/l	<0.01	**0.63**	<0.01	<0.01	**0.04**	**0.02**	**0.04**
Pyrene	T149	AR	0.01	µg/l	<0.01	**0.33**	<0.01	<0.01	**0.02**	**0.02**	**0.05**
PAH(total)	T149	AR	0.01	µg/l	**0.49**	**3.5**	**0.34**	**0.22**	**0.69**	**0.56**	**0.66**
TPH (C8-C10) DW	T81	AR	10	µg/l	<10	(100) <20	<10	<10	<10	<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l	<10	(100) <20	<10	<10	**26**	<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l	**120**	(100) <20	<10	<10	**95**	<10	**400**
TPH (C16-C21) DW	T81	AR	10	µg/l	**34**	**26**	<10	<10	**63**	**17**	**120**

SAL Reference: 354130
Project Site: A63 Castle St - 54W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

SAL Reference	354130 009	354130 010	354130 011	354130 012	354130 013	354130 014	354130 015
Customer Sample Reference	BH21 EW 001	BH14 EW 001	BH47 EW 001	BH42 EW 001	BH30 EW 001	BH35 SHALLOW EW 001	BH35 DEEP EW 001
Date Sampled	03-OCT-2013	03-OCT-2013	03-OCT-2013	03-OCT-2013	04-OCT-2013	04-OCT-2013	04-OCT-2013

Determinand	Method	Test Sample	LOD	Units							
TPH (C21-C35) DW	T81	AR	10	µg/l	**13**	**230**	<10	<10	**47**	**76**	**410**
TPH (C35-C40)	T81	AR	10	µg/l	<10	**27**	<10	<10	<10	<10	**52**
TPH (C8 - C40)	T85	AR	10	µg/l	**160**	**290**	<10	<10	**230**	**100**	**980**

Index to symbols used in 354130-1

Value	Description
AR	As Received
100	LOD determined by sample aliquot used for analysis
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T281	ICP/MS (Filtered)
T65	ICP/OES (Preconc.)
T7	Probe
T2	Grav
T81	GC/FID (LV)
T179	Colorimetry (XION 500)
T6	ICP/OES
T373	ICP/OES (Filtered)
T686	Discrete Analyser
T220	Colorimetry (SD)
T303	ICP-OES (Total)
T4	Colorimetry
T149	GC/MS (SIR)
T16	GC/MS
T85	Calc

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
pH	T7	AR			U	001-015
As (Dissolved)	T281	AR	0.2	µg/l	U	001-015
Boron	T6	AR	10	µg/l	N	001-015
Cd (Dissolved)	T281	AR	0.02	µg/l	U	001-015
Cr (Dissolved)	T281	AR	1	µg/l	U	001-015
Chromium (trivalent)	T85	AR	3	µg/l	N	001-015
Chromium VI	T686	AR	3	µg/l	U	001-015
Cu (Dissolved)	T281	AR	0.5	µg/l	U	001-015
Pb (Dissolved)	T281	AR	0.3	µg/l	U	001-015
Hg (Dissolved)	T281	AR	0.05	µg/l	U	001-015
Ni (Dissolved)	T281	AR	1	µg/l	U	001-015
Se (Dissolved)	T281	AR	0.5	µg/l	U	001-015
Zn (Dissolved)	T281	AR	2	µg/l	U	001-015
Calcium	T6	AR	100	µg/l	N	001-015
Magnesium	T6	AR	100	µg/l	N	001-015
Potassium	T6	AR	100	µg/l	N	001-015
Sodium	T6	AR	100	µg/l	N	001-015
Fe (Dissolved)	T373	AR	10	µg/l	U	001-015
Fe (Total)	T303	AR	10	µg/l	U	001-015
Mn (Dissolved)	T373	AR	10	µg/l	U	001-015

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Mn (Total)	T303	AR	10	µg/l	U	001-015
Nitrate	T686	AR	0.5	mg/l	U	001-015
Nitrite	T686	AR	0.1	mg/l	U	001-015
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	001-015
Sulphate	T686	AR	0.5	mg/l	U	001-015
Sulphide	T4	AR	0.05	mg/l	N	001-015
Sulphur (total)	T65	AR	0.01	mg/l	N	001-015
Chloride	T686	AR	1	mg/l	U	001-015
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	001-015
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	001-015
Suspended Solids (Total)	T2	AR	10	mg/l	N	001-015
Electrical Conductivity	T7	AR	10	µS/cm	N	001-015
Total Phenols	T16	AR	0.5	µg/l	U	001-015
Cyanide(Total)	T220	AR	10	µg/l	WU	001-015
Cyanide(free)	T220	AR	10	µg/l	WN	001-015
Acenaphthene	T149	AR	0.01	µg/l	U	001-015
Acenaphthylene	T149	AR	0.01	µg/l	U	001-015
Anthracene	T149	AR	0.01	µg/l	U	001-015
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	001-015
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	001-015
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	001-015
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	001-015
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	001-015
Chrysene	T149	AR	0.01	µg/l	U	001-015
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	001-015
Fluoranthene	T149	AR	0.01	µg/l	U	001-015
Fluorene	T149	AR	0.01	µg/l	U	001-015
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	001-015
Naphthalene	T149	AR	0.01	µg/l	U	001-015
Phenanthrene	T149	AR	0.01	µg/l	U	001-015
Pyrene	T149	AR	0.01	µg/l	U	001-015
PAH(total)	T149	AR	0.01	µg/l	U	001-015
TPH (C8-C10) DW	T81	AR	10	µg/l	U	001-015
TPH (C10-C12) DW	T81	AR	10	µg/l	U	001-015
TPH (C12-C16) DW	T81	AR	10	µg/l	U	001-015
TPH (C16-C21) DW	T81	AR	10	µg/l	U	001-015
TPH (C21-C35) DW	T81	AR	10	µg/l	U	001-015
TPH (C35-C40)	T81	AR	10	µg/l	N	001-015
TPH (C8 - C40)	T85	AR	10	µg/l	N	001-015

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 357426-2

Date of Report: 06-Nov-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 55W and 56W
Date Job Received at SAL: 22-Oct-2013
Date Analysis Started: 25-Oct-2013
Date Analysis Completed: 06-Nov-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

Report checked and authorised by :
Mr Ross Walker
Customer Services Manager (Land)

Issued by :
Mr Ross Walker
Customer Services Manager (Land)

SAL Reference: 357426
Project Site: A63 Castle St - 55W and 56W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**357426 001**	**357426 002**	**357426 003**	**357426 004**	**357426 005**	**357426 006**	**357426 007**	**357426 008**
				Customer Sample Reference	**BH02**	**BH04**	**BH07**	**BH11**	**BH12**	**BH13**	**BH19A**	**BH20**
				Date Sampled	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
pH	T7	AR			**7.1**	**7.2**	**7.5**	**11.0**	**8.0**	**7.0**	**7.8**	**7.3**
As (Dissolved)	T281	AR	0.2	µg/l	**97**	**66**	**30**	**23**	**18**	**52**	**24**	**44**
Boron	T6	AR	10	µg/l	**2000**	**530**	**1600**	**540**	**1300**	**250**	**1600**	**750**
Cd (Dissolved)	T281	AR	0.02	µg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	**0.05**	**0.07**
Cr (Dissolved)	T281	AR	1	µg/l	**7**	**6**	**7**	**2**	**5**	**7**	**11**	**6**
Chromium (trivalent)	T85	AR	3	µg/l	**7**	**6**	**7**	<3	**5**	**7**	**11**	**6**
Chromium VI	T686	AR	3	µg/l	<3	<3	<3	<3	<3	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**390**	**680**	**17**	**38**	**4.4**	**55**	**16**	**110**
Pb (Dissolved)	T281	AR	0.3	µg/l	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l	**25**	**17**	**9**	**30**	**9**	**13**	**10**	**10**
Se (Dissolved)	T281	AR	0.5	µg/l	**110**	**86**	**25**	**44**	**5.4**	**80**	**25**	**68**
Zn (Dissolved)	T281	AR	2	µg/l	**5**	**3**	<2	<2	<2	**3**	**5**	**19**
Calcium	T6	AR	100	µg/l	**220000**	**250000**	**70000**	**130000**	**55000**	**230000**	**47000**	**210000**
Magnesium	T6	AR	100	µg/l	**580000**	**330000**	**120000**	**9300**	**68000**	**270000**	**110000**	**290000**
Potassium	T6	AR	100	µg/l	**240000**	**86000**	**96000**	**110000**	**93000**	**75000**	**89000**	**95000**
Sodium	T6	AR	100	µg/l	**4600000**	**3500000**	**1100000**	**1700000**	**310000**	**3200000**	**1200000**	**2800000**
Fe (Dissolved)	T373	AR	10	µg/l	**12**	**11000**	**59**	<10	<10	<10	**160**	**12**
Fe (Total)	T303	AR	10	µg/l	**6500**	**130000**	**50000**	**2700**	**99000**	**13000**	**35000**	**36000**
Mn (Dissolved)	T373	AR	10	µg/l	**1300**	**2000**	**1100**	<10	**460**	**890**	**360**	**1700**
Mn (Total)	T303	AR	10	µg/l	**1400**	**20000**	**30000**	**190**	**6100**	**970**	**1800**	**2300**
Nitrate	T686	AR	0.5	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrite	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulphate	T686	AR	0.5	mg/l	**1100**	**35**	**2.0**	**480**	**170**	**6.9**	**1.8**	**340**
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**480**	**120**	**9.1**	**130**	**84**	**19**	**31**	**170**
Chloride	T686	AR	1	mg/l	**7800**	**5300**	**1700**	**4300**	**170**	**4600**	**1300**	**4200**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**1.4**	**7.4**	**15**	**7.1**	**9.6**	**6.5**	**12**	**4.9**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**1.8**	**9.6**	**19**	**9.1**	**12**	**8.3**	**15**	**6.3**
Suspended Solids (Total)	T2	AR	10	mg/l	**120**	**61000**	**80000**	**360**	**4700**	**77**	**340**	**360**
Electrical Conductivity	T7	AR	10	µS/cm	**23000**	**18000**	**6900**	**9400**	**2300**	**17000**	**6900**	**11000**
Total Phenols	T16	AR	0.5	µg/l	<0.5	**2.9**	**1.5**	**4.4**	<0.5	**0.7**	**5.8**	<0.5
Cyanide(Total)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10
Cyanide(free)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l	<0.01	**0.04**	**0.09**	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	T149	AR	0.01	µg/l	<0.01	**0.03**	**0.06**	**0.02**	<0.01	<0.01	<0.01	<0.01
Anthracene	T149	AR	0.01	µg/l	<0.01	**0.03**	**0.05**	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10	<0.01	(110) <0.10	(110) <0.10	<0.01	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10	<0.01	(110) <0.10	(110) <0.10	<0.01	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10	<0.01	(110) <0.10	(110) <0.10	<0.01	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10	<0.01	(110) <0.10	(110) <0.10	<0.01	<0.01
Chrysene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10	<0.01	(110) <0.10	(110) <0.10	<0.01	<0.01
Fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.03**	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	T149	AR	0.01	µg/l	<0.01	**0.05**	**0.09**	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	(110) <0.10	(110) <0.10	(110) <0.10	<0.01	(110) <0.10	(110) <0.10	<0.01	<0.01
Naphthalene	T149	AR	0.01	µg/l	**0.06**	**0.04**	**0.09**	**0.26**	**0.03**	**0.11**	**0.23**	<0.01
Phenanthrene	T149	AR	0.01	µg/l	<0.01	**0.02**	**0.08**	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.03**	<0.01	<0.01	<0.01	<0.01	<0.01
PAH(total)	T149	AR	0.01	µg/l	(110) <0.10	**0.21**	**0.52**	**0.28**	(110) <0.10	**0.11**	**0.23**	<0.01
TPH (C8-C10) DW	T81	AR	10	µg/l	<10	<10	-	<10	<10	<10	-	-
TPH (C10-C12) DW	T81	AR	10	µg/l	<10	<10	-	**13**	<10	<10	-	-
TPH (C12-C16) DW	T81	AR	10	µg/l	<10	<10	-	<10	**11**	<10	-	-
TPH (C16-C21) DW	T81	AR	10	µg/l	<10	**25**	-	<10	**42**	**15**	-	-
TPH (C21-C35) DW	T81	AR	10	µg/l	<10	**34**	-	**31**	**51**	**10**	-	-

SAL Reference: 357426
Project Site: A63 Castle St - 55W and 56W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**357426 001**	**357426 002**	**357426 003**	**357426 004**	**357426 005**	**357426 006**	**357426 007**	**357426 008**
				Customer Sample Reference	**BH02**	**BH04**	**BH07**	**BH11**	**BH12**	**BH13**	**BH19A**	**BH20**
				Date Sampled	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
TPH (C35-C40)	T81	AR	10	µg/l	<10	<10	-	<10	<10	<10	-	-
TPH (C8 - C40)	T85	AR	10	µg/l	<10	**50**	-	**40**	**100**	**30**	-	-
TPH (C5-C6 aliphatic)	T215	AR	10	µg/l	-	-	<10	-	-	-	<10	<10
TPH (C6-C8 aliphatic)	T215	AR	10	µg/l	-	-	<10	-	-	-	<10	<10
TPH (C8-C10 aliphatic)	T215	AR	10	µg/l	-	-	<10	-	-	-	<10	<10
TPH DW(C10-C12 aliphatic)	T81	AR	10	µg/l	-	-	**10**	-	-	-	<10	<10
TPH DW(C12-C16 aliphatic)	T81	AR	10	µg/l	-	-	**30**	-	-	-	**10**	**10**
TPH DW(C16-C21 aliphatic)	T81	AR	10	µg/l	-	-	**60**	-	-	-	**10**	**10**
TPH DW(C21-C35 aliphatic)	T81	AR	10	µg/l	-	-	**110**	-	-	-	**20**	**10**
TPH (C35-C44 aliphatic)	T81	AR	10	µg/l	-	-	<10	-	-	-	<10	<10
TPH (Aliphatic) total	T85	AR		µg/l	-	-	**210**	-	-	-	**40**	**30**
TPH (C6-C7 aromatic)	T215	AR	10	µg/l	-	-	<10	-	-	-	<10	<10
TPH (C7-C8 aromatic)	T215	AR	10	µg/l	-	-	<10	-	-	-	<10	<10
TPH (C8-C10 aromatic)	T215	AR	10	µg/l	-	-	<10	-	-	-	<10	<10
TPH DW(C10-C12 aromatic)	T81	AR	10	µg/l	-	-	<10	-	-	-	<10	<10
TPH DW(C12-C16 aromatic)	T81	AR	10	µg/l	-	-	**30**	-	-	-	<10	**10**
TPH DW(C16-C21 aromatic)	T81	AR	10	µg/l	-	-	**40**	-	-	-	**10**	**10**
TPH DW(C21-C35 aromatic)	T81	AR	10	µg/l	-	-	**20**	-	-	-	<10	<10
TPH (C35-C44 aromatic)	T81	AR	10	µg/l	-	-	<10	-	-	-	<10	<10
TPH (Aromatic) total	T85	AR		µg/l	-	-	**90**	-	-	-	**10**	**20**
TPH (Aliphatic+Aromatic) (sum)	T85	AR		µg/l	-	-	**300**	-	-	-	**50**	**50**
Benzene	T54	AR	1	µg/l	-	-	<1	-	-	-	<1	<1
EthylBenzene	T54	AR	1	µg/l	-	-	<1	-	-	-	<1	<1
Toluene	T54	AR	1	µg/l	-	-	<1	-	-	-	<1	<1
M/P Xylene	T54	AR	1	µg/l	-	-	<1	-	-	-	<1	<1
O Xylene	T54	AR	1	µg/l	-	-	<1	-	-	-	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	-	-	<1	-	-	-	<1	<1

SAL Reference: 357426
Project Site: A63 Castle St - 55W and 56W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

					SAL Reference	**357426 009**	**357426 010**	**357426 011**	**357426 012**	**357426 013**	**357426 014**	**357426 015**	**357426 016**
					Customer Sample Reference	**BH21**	**WS10A**	**BH34**	**BH32**	**BH33**	**D3**	**WS13**	**BH37**
					Date Sampled	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
pH	T7	AR				**7.8**	**7.5**	**7.3**	**7.8**	**7.1**	**7.1**	**7.6**	**8.0**
As (Dissolved)	T281	AR	0.2	µg/l		**41**	**8.7**	**73**	**32**	**40**	**59**	**64**	**18**
Boron	T6	AR	10	µg/l		**1000**	**920**	**1900**	**1000**	**840**	**2000**	**1600**	**800**
Cd (Dissolved)	T281	AR	0.02	µg/l		**0.03**	<0.02	<0.02	<0.02	**0.04**	<0.02	<0.02	**0.04**
Cr (Dissolved)	T281	AR	1	µg/l		**7**	**6**	**6**	**5**	**10**	**5**	**6**	**4**
Chromium (trivalent)	T85	AR	3	µg/l		**7**	**6**	**6**	**5**	**10**	**5**	**6**	**4**
Chromium VI	T686	AR	3	µg/l		<3	<3	<3	<3	<3	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l		**17**	**1.5**	**72**	**8.6**	**55**	**220**	**9.7**	**14**
Pb (Dissolved)	T281	AR	0.3	µg/l		<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l		<0.05	**7.2**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l		**5**	**7**	**56**	**5**	**10**	**28**	**6**	**5**
Se (Dissolved)	T281	AR	0.5	µg/l		**12**	**1.9**	**120**	**11**	**86**	**130**	**8.2**	**12**
Zn (Dissolved)	T281	AR	2	µg/l		**3**	<2	**3**	<2	**4**	**3**	<2	**10**
Calcium	T6	AR	100	µg/l		**94000**	**140000**	**220000**	**90000**	**200000**	**220000**	**110000**	**76000**
Magnesium	T6	AR	100	µg/l		**83000**	**100000**	**550000**	**100000**	**350000**	**560000**	**140000**	**73000**
Potassium	T6	AR	100	µg/l		**77000**	**96000**	**230000**	**85000**	**110000**	**230000**	**100000**	**88000**
Sodium	T6	AR	100	µg/l		**610000**	**95000**	**4200000**	**580000**	**3100000**	**4500000**	**410000**	**570000**
Fe (Dissolved)	T373	AR	10	µg/l		**38**	**2400**	**19**	**33**	**62**	**56**	**1200**	**13**
Fe (Total)	T303	AR	10	µg/l		**25000**	**1200000**	**6400**	**160000**	**54000**	**6500**	**120000**	**37000**
Mn (Dissolved)	T373	AR	10	µg/l		**610**	**650**	**350**	**610**	**800**	**1400**	**930**	**530**
Mn (Total)	T303	AR	10	µg/l		**1300**	**46000**	**360**	**6600**	**1100**	**1400**	**4600**	**1700**
Nitrate	T686	AR	0.5	mg/l		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrite	T686	AR	0.1	mg/l		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulphate	T686	AR	0.5	mg/l		**2.2**	**18**	**1000**	**300**	**1.8**	**1100**	<0.5	**6.7**
Sulphide	T4	AR	0.05	mg/l		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l		**17**	**31**	**450**	**130**	**5.4**	**470**	**8.4**	**52**
Chloride	T686	AR	1	mg/l		**800**	**140**	**7300**	**550**	**4000**	**7300**	**33**	**40**
Ammoniacal nitrogen	T179	AR	0.015	mg/l		**7.4**	**1.9**	**1.4**	**8.2**	**20**	**1.8**	**11**	**3.2**
Ammonia expressed as NH4	T179	AR	0.019	mg/l		**9.6**	**2.5**	**1.8**	**10**	**26**	**2.3**	**14**	**4.1**
Suspended Solids (Total)	T2	AR	10	mg/l		**170**	**37000**	**35**	**4100**	**440**	**77**	**8800**	**2500**
Electrical Conductivity	T7	AR	10	µS/cm		**4000**	**1700**	**23000**	**4000**	**16000**	**23000**	**3800**	**4000**
Total Phenols	T16	AR	0.5	µg/l		**0.8**	**1.2**	<0.5	<0.5	**0.7**	<0.5	**1.6**	<0.5
Cyanide(Total)	T220	AR	10	µg/l		<10	<10	<10	<10	<10	<10	<10	<10
Cyanide(free)	T220	AR	10	µg/l		<10	<10	<10	<10	<10	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l		<0.01	**0.04**	**0.02**	**0.02**	**0.01**	<0.01	**0.03**	<0.01
Acenaphthylene	T149	AR	0.01	µg/l		<0.01	**0.02**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	T149	AR	0.01	µg/l		<0.01	**0.04**	<0.01	<0.01	<0.01	<0.01	**0.07**	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.08**	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	(110) <0.10	(110) <0.10	(110) <0.10	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	(110) <0.10	(110) <0.10	(110) <0.10	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	(110) <0.10	(110) <0.10	(110) <0.10	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	(110) <0.10	(110) <0.10	(110) <0.10	<0.01
Chrysene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.05**	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	(110) <0.10	(110) <0.10	(110) <0.10	<0.01
Fluoranthene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.20**	<0.01
Fluorene	T149	AR	0.01	µg/l		<0.01	**0.02**	<0.01	<0.01	<0.01	<0.01	**0.04**	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	(110) <0.10	(110) <0.10	(110) <0.10	<0.01
Naphthalene	T149	AR	0.01	µg/l		**0.13**	**0.05**	**0.07**	**0.06**	**0.07**	**0.08**	**0.39**	<0.01
Phenanthrene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.14**	<0.01
Pyrene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.17**	<0.01
PAH(total)	T149	AR	0.01	µg/l		**0.13**	**0.17**	**0.09**	**0.08**	(110) <0.10	(110) <0.10	**0.17**	<0.01
TPH (C8-C10) DW	T81	AR	10	µg/l		-	<10	<10	<10	<10	<10	-	<10
TPH (C10-C12) DW	T81	AR	10	µg/l		-	<10	<10	<10	<10	<10	-	<10
TPH (C12-C16) DW	T81	AR	10	µg/l		-	**39**	**58**	<10	<10	<10	-	**15**
TPH (C16-C21) DW	T81	AR	10	µg/l		-	**110**	**11**	**18**	<10	**24**	-	**54**
TPH (C21-C35) DW	T81	AR	10	µg/l		-	**170**	<10	**31**	<10	<10	-	**50**

SAL Reference: 357426
Project Site: A63 Castle St - 55W and 56W
Customer Reference: 112630

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				SAL Reference	**357426 009**	**357426 010**	**357426 011**	**357426 012**	**357426 013**	**357426 014**	**357426 015**	**357426 016**
				Customer Sample Reference	**BH21**	**WS10A**	**BH34**	**BH32**	**BH33**	**D3**	**WS13**	**BH37**
				Date Sampled	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
TPH (C35-C40)	T81	AR	10	µg/l	-	<10	<10	<10	<10	<10	-	<10
TPH (C8 - C40)	T85	AR	10	µg/l	-	**320**	**70**	**50**	<10	**20**	-	**110**
TPH (C5-C6 aliphatic)	T215	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH (C6-C8 aliphatic)	T215	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH (C8-C10 aliphatic)	T215	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH DW(C10-C12 aliphatic)	T81	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH DW(C12-C16 aliphatic)	T81	AR	10	µg/l	**10**	-	-	-	-	-	**10**	-
TPH DW(C16-C21 aliphatic)	T81	AR	10	µg/l	**10**	-	-	-	-	-	**30**	-
TPH DW(C21-C35 aliphatic)	T81	AR	10	µg/l	**30**	-	-	-	-	-	**10**	-
TPH (C35-C44 aliphatic)	T81	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH (Aliphatic) total	T85	AR		µg/l	**50**	-	-	-	-	-	**50**	-
TPH (C6-C7 aromatic)	T215	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH (C7-C8 aromatic)	T215	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH (C8-C10 aromatic)	T215	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH DW(C10-C12 aromatic)	T81	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH DW(C12-C16 aromatic)	T81	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH DW(C16-C21 aromatic)	T81	AR	10	µg/l	<10	-	-	-	-	-	**10**	-
TPH DW(C21-C35 aromatic)	T81	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH (C35-C44 aromatic)	T81	AR	10	µg/l	<10	-	-	-	-	-	<10	-
TPH (Aromatic) total	T85	AR		µg/l	N.D.	-	-	-	-	-	**10**	-
TPH (Aliphatic+Aromatic) (sum)	T85	AR		µg/l	**50**	-	-	-	-	-	**60**	-
Benzene	T54	AR	1	µg/l	<1	-	-	-	-	-	<1	<1
EthylBenzene	T54	AR	1	µg/l	<1	-	-	-	-	-	<1	<1
Toluene	T54	AR	1	µg/l	<1	-	-	-	-	-	<1	<1
M/P Xylene	T54	AR	1	µg/l	<1	-	-	-	-	-	<1	<1
O Xylene	T54	AR	1	µg/l	<1	-	-	-	-	-	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	-	-	-	-	-	<1	<1

SAL Reference: 357426
Project Site: A63 Castle St - 55W and 56W
Customer Reference: 112630

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				SAL Reference	**357426 017**	**357426 018**	**357426 019**	**357426 020**	**357426 021**	**357426 022**	**357426 023**
				Customer Sample Reference	**BH40A**	**BH35(DEEP)**	**BH35(SHAL LOW)**	**BH38**	**BH44**	**BH46**	**D4**
				Date Sampled	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
pH	T7	AR			**7.5**	**7.3**	**7.7**	**7.9**	**7.4**	**7.7**	**7.5**
As (Dissolved)	T281	AR	0.2	µg/l	**11**	**43**	**22**	**38**	**14**	**18**	**20**
Boron	T6	AR	10	µg/l	**750**	**1300**	**800**	**1300**	**800**	**1100**	**1000**
Cd (Dissolved)	T281	AR	0.02	µg/l	<0.02	**0.09**	<0.02	<0.02	<0.02	**0.09**	<0.02
Cr (Dissolved)	T281	AR	1	µg/l	**3**	**9**	**4**	**5**	**4**	**8**	**8**
Chromium (trivalent)	T85	AR	3	µg/l	**3**	**9**	**4**	**5**	**4**	**8**	**8**
Chromium VI	T686	AR	3	µg/l	<3	<3	<3	<3	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**10**	**82**	**18**	**9.9**	**21**	**22**	**20**
Pb (Dissolved)	T281	AR	0.3	µg/l	<0.3	**0.5**	<0.3	<0.3	<0.3	<0.3	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l	**7**	**22**	**8**	**4**	**4**	**12**	**5**
Se (Dissolved)	T281	AR	0.5	µg/l	**18**	**79**	**25**	**12**	**13**	**29**	**29**
Zn (Dissolved)	T281	AR	2	µg/l	<2	**30**	<2	<2	<2	**8**	<2
Calcium	T6	AR	100	µg/l	**360000**	**160000**	**62000**	**95000**	**180000**	**160000**	**150000**
Magnesium	T6	AR	100	µg/l	**130000**	**310000**	**100000**	**110000**	**150000**	**150000**	**150000**
Potassium	T6	AR	100	µg/l	**140000**	**99000**	**67000**	**130000**	**120000**	**120000**	**110000**
Sodium	T6	AR	100	µg/l	**380000**	**2800000**	**940000**	**500000**	**310000**	**850000**	**850000**
Fe (Dissolved)	T373	AR	10	µg/l	**12**	**17**	**79**	**88**	**6900**	**34**	**74**
Fe (Total)	T303	AR	10	µg/l	**38000**	**93000**	**210000**	**8000**	**21000**	**210000**	**54000**
Mn (Dissolved)	T373	AR	10	µg/l	**600**	**560**	**260**	**350**	**790**	**390**	**450**
Mn (Total)	T303	AR	10	µg/l	**740**	**4100**	**6000**	**440**	**920**	**6700**	**1700**
Nitrate	T686	AR	0.5	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrite	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulphate	T686	AR	0.5	mg/l	**11**	<0.5	<0.5	<0.5	**4.1**	<0.5	<0.5
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**120**	**2.9**	**9.6**	**31**	**43**	**11**	**7.2**
Chloride	T686	AR	1	mg/l	**53**	**160**	**44**	**33**	**36**	**63**	**66**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**4.0**	**13**	**6.7**	**13**	**8.8**	**15**	**15**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**5.2**	**17**	**8.7**	**16**	**11**	**19**	**19**
Suspended Solids (Total)	T2	AR	10	mg/l	**160**	**3700**	**3600**	**34**	**290**	**750**	**2200**
Electrical Conductivity	T7	AR	10	µS/cm	**5300**	**13000**	**5800**	**4000**	**4000**	**6400**	**6300**
Total Phenols	T16	AR	0.5	µg/l	<0.5	<0.5	<0.5	<0.5	**3.1**	**0.5**	**0.7**
Cyanide(Total)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10
Cyanide(free)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.03**	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	**0.01**	<0.01	<0.01	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	**0.06**	<0.01	<0.01	<0.01
Fluorene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.02**	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Naphthalene	T149	AR	0.01	µg/l	<0.01	**0.02**	**0.04**	**0.07**	**0.10**	**0.16**	**0.15**
Phenanthrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	**0.06**	<0.01	<0.01	<0.01
Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	**0.06**	<0.01	<0.01	<0.01
PAH(total)	T149	AR	0.01	µg/l	<0.01	**0.02**	**0.09**	**0.26**	**0.10**	**0.16**	**0.15**
TPH (C8-C10) DW	T81	AR	10	µg/l	-	-	-	<10	<10	<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l	-	-	-	<10	<10	<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l	-	-	-	<10	<10	<10	<10
TPH (C16-C21) DW	T81	AR	10	µg/l	-	-	-	**31**	<10	**23**	**45**
TPH (C21-C35) DW	T81	AR	10	µg/l	-	-	-	**51**	<10	**67**	**120**

SAL Reference: 357426
Project Site: A63 Castle St - 55W and 56W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**357426 017**	**357426 018**	**357426 019**	**357426 020**	**357426 021**	**357426 022**	**357426 023**
				Customer Sample Reference	**BH40A**	**BH35(DEEP)**	**BH35(SHALLOW)**	**BH38**	**BH44**	**BH46**	**D4**
				Date Sampled	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
TPH (C35-C40)	T81	AR	10	µg/l	-	-	-	<10	<10	<10	**15**
TPH (C8 - C40)	T85	AR	10	µg/l	-	-	-	**80**	<10	**90**	**180**
TPH (C5-C6 aliphatic)	T215	AR	10	µg/l	<10	<10	<10	-	-	-	-
TPH (C6-C8 aliphatic)	T215	AR	10	µg/l	<10	<10	<10	-	-	-	-
TPH (C8-C10 aliphatic)	T215	AR	10	µg/l	<10	<10	<10	-	-	-	-
TPH DW(C10-C12 aliphatic)	T81	AR	10	µg/l	<10	<10	<10	-	-	-	-
TPH DW(C12-C16 aliphatic)	T81	AR	10	µg/l	**10**	**50**	**20**	-	-	-	-
TPH DW(C16-C21 aliphatic)	T81	AR	10	µg/l	**20**	**20**	**10**	-	-	-	-
TPH DW(C21-C35 aliphatic)	T81	AR	10	µg/l	**30**	**20**	**30**	-	-	-	-
TPH (C35-C44 aliphatic)	T81	AR	10	µg/l	<10	<10	<10	-	-	-	-
TPH (Aliphatic) total	T85	AR		µg/l	**60**	**90**	**60**	-	-	-	-
TPH (C6-C7 aromatic)	T215	AR	10	µg/l	<10	<10	<10	-	-	-	-
TPH (C7-C8 aromatic)	T215	AR	10	µg/l	<10	<10	<10	-	-	-	-
TPH (C8-C10 aromatic)	T215	AR	10	µg/l	<10	<10	<10	-	-	-	-
TPH DW(C10-C12 aromatic)	T81	AR	10	µg/l	<10	<10	<10	-	-	-	-
TPH DW(C12-C16 aromatic)	T81	AR	10	µg/l	**10**	<10	**20**	-	-	-	-
TPH DW(C16-C21 aromatic)	T81	AR	10	µg/l	<10	<10	**20**	-	-	-	-
TPH DW(C21-C35 aromatic)	T81	AR	10	µg/l	<10	<10	<10	-	-	-	-
TPH (C35-C44 aromatic)	T81	AR	10	µg/l	<10	<10	<10	-	-	-	-
TPH (Aromatic) total	T85	AR		µg/l	**10**	N.D.	**40**	-	-	-	-
TPH (Aliphatic+Aromatic) (sum)	T85	AR		µg/l	**70**	**90**	**100**	-	-	-	-
Benzene	T54	AR	1	µg/l	<1	<1	<1	-	-	-	-
EthylBenzene	T54	AR	1	µg/l	<1	<1	<1	-	-	-	-
Toluene	T54	AR	1	µg/l	<1	<1	<1	-	-	-	-
M/P Xylene	T54	AR	1	µg/l	<1	<1	<1	-	-	-	-
O Xylene	T54	AR	1	µg/l	<1	<1	<1	-	-	-	-
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	<1	<1	-	-	-	-

SAL Reference: 357426
Project Site: A63 Castle St - 55W and 56W
Customer Reference: 112630

Water Analysed as Water
Volatile Organic Compounds (USEPA 624)

	SAL Reference	357426 003	357426 007	357426 008	357426 009	357426 015	357426 016	357426 018	357426 019
	Customer Sample Reference	BH07	BH19A	BH20	BH21	WS13	BH37	BH35(DEEP)	BH35(SHALLOW)
	Date Sampled	21-OCT-2013	21-OCT-2013	21-OCT-2013	21-OCT-2013	22-OCT-2013	22-OCT-2013	22-OCT-2013	22-OCT-2013
Determinand	**Method** / **Test Sample** / **LOD** / **Units**								
1,1,1,2-Tetrachloroethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethylene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethylene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Chlorodibromomethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,2-Dichloroethylene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-Dichloropropene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Dichloromethane	T54 AR 50 µg/l	<50	<50	<50	<50	<50	<50	<50	<50
EthylBenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Isopropyl benzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
M/P Xylene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
n-Propylbenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
O Xylene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
S-Butylbenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
T-Butylbenzene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-Dichloroethene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-Dichloropropene	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	T54 AR 1 µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	T215 AR 0.5 µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

SAL Reference: 357426
Project Site: A63 Castle St - 55W and 56W
Customer Reference: 112630

Water Analysed as Water

Semi-Volatile Organic Compounds (USEPA 625) Low Level

				SAL Reference	**357426 003**	**357426 007**	**357426 008**	**357426 009**	**357426 015**	**357426 016**	**357426 018**	**357426 019**
				Customer Sample Reference	**BH07**	**BH19A**	**BH20**	**BH21**	**WS13**	**BH37**	**BH35(DEEP)**	**BH35(SHALLOW)**
				Date Sampled	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**21-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**	**22-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
1,2,4-Trichlorobenzene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dichlorophenol	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dimethylphenol	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dinitrophenol	T71	AR	1	µg/l	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5
2,4-Dinitrotoluene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2,6-Dinitrotoluene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2-Chloronaphthalene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorophenol	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2-methyl phenol	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2-Nitroaniline	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
2-Nitrophenol	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
3-Nitroaniline	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
3/4-Methylphenol	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Bromophenyl phenylether	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloroaniline	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorophenyl phenylether	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitroaniline	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitrophenol	T71	AR	1	µg/l	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	<1	(36) <5	(36) <5
Acenaphthene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Acenaphthylene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Anthracene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Azobenzene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)Anthracene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)Pyrene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(b/k)Fluoranthene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(ghi)Perylene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Bis (2-chloroethoxy) methane	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Bis (2-chloroethyl) ether	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Bis (2-chloroisopropyl) ether	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Bis (2-ethylhexyl)phthalate	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzylphthalate	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Carbazole	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Chrysene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Di-n-butylphthalate	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Di-n-octylphthalate	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzo(ah)Anthracene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzofuran	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl phthalate	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Dimethyl phthalate	T71	AR	1	µg/l	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	<1	(36) <5	(36) <5
Fluoranthene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Fluorene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobenzene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	T71	AR	1	µg/l	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5
Hexachlorocyclopentadiene	T71	AR	1	µg/l	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5
Hexachloroethane	T71	AR	1	µg/l	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5
Indeno(123-cd)Pyrene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Isophorone	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Nitrobenzene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Pentachlorophenol	T71	AR	1	µg/l	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	<1	(36) <5	(36) <5
Phenanthrene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1
Phenol	T71	AR	1	µg/l	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5

SAL Reference: 357426
Project Site: A63 Castle St - 55W and 56W
Customer Reference: 112630

Water Analysed as Water
Semi-Volatile Organic Compounds (USEPA 625) Low Level

SAL Reference	357426 003	357426 007	357426 008	357426 009	357426 015	357426 016	357426 018	357426 019
Customer Sample Reference	BH07	BH19A	BH20	BH21	WS13	BH37	BH35(DEEP)	BH35(SHALLOW)
Date Sampled	21-OCT-2013	21-OCT-2013	21-OCT-2013	21-OCT-2013	22-OCT-2013	22-OCT-2013	22-OCT-2013	22-OCT-2013

Determinand	Method	Test Sample	LOD	Units								
Pyrene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1

SAL Reference: 357426
Project Site: A63 Castle St - 55W and 56W
Customer Reference: 112630

Water Analysed as Water
PCBs EC7 congeners(28,52,101,118,138,153,180)

SAL Reference	357426 003	357426 007	357426 008	357426 009	357426 020
Customer Sample Reference	BH07	BH19A	BH20	BH21	BH38
Date Sampled	21-OCT-2013	21-OCT-2013	21-OCT-2013	21-OCT-2013	22-OCT-2013

Determinand	Method	Test Sample	LOD	Units					
PCB BZ#101	T1	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#118	T16	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#138	T1	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#153	T1	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#180	T1	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#28	T1	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#52	T1	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005

Index to symbols used in 357426-2

Value	Description
AR	As Received
N.D.	Not Detected
36	LOD Raised due to low Matrix spike recovery
110	LOD raised due to low internal standard recovery.
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T2	Grav
T1	GC/MS (HR)
T373	ICP/OES (Filtered)
T281	ICP/MS (Filtered)
T7	Probe
T179	Colorimetry (XION 500)
T71	GC/MS (1l ext.)
T4	Colorimetry
T54	GC/MS (Headspace)
T220	Colorimetry (SD)
T6	ICP/OES
T16	GC/MS
T65	ICP/OES (Preconc.)
T81	GC/FID (LV)
T149	GC/MS (SIR)
T303	ICP-OES (Total)
T85	Calc
T215	GC/MS (Headspace)(LV)
T686	Discrete Analyser

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
pH	T7	AR			U	001-023
As (Dissolved)	T281	AR	0.2	µg/l	U	001-023
Boron	T6	AR	10	µg/l	N	001-023
Cd (Dissolved)	T281	AR	0.02	µg/l	U	001-023
Cr (Dissolved)	T281	AR	1	µg/l	U	001-023
Chromium (trivalent)	T85	AR	3	µg/l	N	001-023
Chromium VI	T686	AR	3	µg/l	U	001-023
Cu (Dissolved)	T281	AR	0.5	µg/l	U	001-023
Pb (Dissolved)	T281	AR	0.3	µg/l	U	001-023
Hg (Dissolved)	T281	AR	0.05	µg/l	U	001-023
Ni (Dissolved)	T281	AR	1	µg/l	U	001-023
Se (Dissolved)	T281	AR	0.5	µg/l	U	001-023
Zn (Dissolved)	T281	AR	2	µg/l	U	001-023
Calcium	T6	AR	100	µg/l	N	001-023
Magnesium	T6	AR	100	µg/l	N	001-023
Potassium	T6	AR	100	µg/l	N	001-023
Sodium	T6	AR	100	µg/l	N	001-023
Fe (Dissolved)	T373	AR	10	µg/l	U	001-023
Fe (Total)	T303	AR	10	µg/l	U	001-023
Mn (Dissolved)	T373	AR	10	µg/l	U	001-023
Mn (Total)	T303	AR	10	µg/l	U	001-023
Nitrate	T686	AR	0.5	mg/l	U	001-023
Nitrite	T686	AR	0.1	mg/l	U	001-023
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	001-023
Sulphate	T686	AR	0.5	mg/l	U	001-023
Sulphide	T4	AR	0.05	mg/l	N	001-023
Sulphur (total)	T65	AR	0.01	mg/l	N	001-023
Chloride	T686	AR	1	mg/l	U	001-023
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	001-023
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	001-023
Suspended Solids (Total)	T2	AR	10	mg/l	N	001-023
Electrical Conductivity	T7	AR	10	µS/cm	N	001-023
Total Phenols	T16	AR	0.5	µg/l	U	001-023
Cyanide(Total)	T220	AR	10	µg/l	WU	001-023
Cyanide(free)	T220	AR	10	µg/l	WN	001-023
Acenaphthene	T149	AR	0.01	µg/l	U	001-023
Acenaphthylene	T149	AR	0.01	µg/l	U	001-023
Anthracene	T149	AR	0.01	µg/l	U	001-023
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	001-023
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	001-023
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	001-023
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	001-023
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	001-023
Chrysene	T149	AR	0.01	µg/l	U	001-023
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	001-023
Fluoranthene	T149	AR	0.01	µg/l	U	001-023
Fluorene	T149	AR	0.01	µg/l	U	001-023
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	001-023
Naphthalene	T149	AR	0.01	µg/l	U	001-023
Phenanthrene	T149	AR	0.01	µg/l	U	001-023
Pyrene	T149	AR	0.01	µg/l	U	001-023
PAH(total)	T149	AR	0.01	µg/l	U	001-023
TPH (C8-C10) DW	T81	AR	10	µg/l	U	001-002,004-006,010-014,016,020-023
TPH (C10-C12) DW	T81	AR	10	µg/l	U	001-002,004-006,010-014,016,020-023
TPH (C12-C16) DW	T81	AR	10	µg/l	U	001-002,004-006,010-014,016,020-023
TPH (C16-C21) DW	T81	AR	10	µg/l	U	001-002,004-006,010-014,016,020-023
TPH (C21-C35) DW	T81	AR	10	µg/l	U	001-002,004-006,010-014,016,020-023
TPH (C35-C40)	T81	AR	10	µg/l	N	001-002,004-006,010-014,016,020-023
TPH (C8 - C40)	T85	AR	10	µg/l	N	001-002,004-006,010-014,016,020-023
TPH (C5-C6 aliphatic)	T215	AR	10	µg/l	N	003,007-009,015,017-019
TPH (C6-C8 aliphatic)	T215	AR	10	µg/l	N	003,007-009,015,017-019
TPH (C8-C10 aliphatic)	T215	AR	10	µg/l	N	003,007-009,015,017-019
TPH DW(C10-C12 aliphatic)	T81	AR	10	µg/l	N	003,007-009,015,017-019
TPH DW(C12-C16 aliphatic)	T81	AR	10	µg/l	N	003,007-009,015,017-019
TPH DW(C16-C21 aliphatic)	T81	AR	10	µg/l	N	003,007-009,015,017-019
TPH DW(C21-C35 aliphatic)	T81	AR	10	µg/l	N	003,007-009,015,017-019
TPH (C35-C44 aliphatic)	T81	AR	10	µg/l	N	003,007-009,015,017-019

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
TPH (Aliphatic) total	T85	AR		µg/l	N	003,007-009,015,017-019
TPH (C6-C7 aromatic)	T215	AR	10	µg/l	N	003,007-009,015,017-019
TPH (C7-C8 aromatic)	T215	AR	10	µg/l	N	003,007-009,015,017-019
TPH (C8-C10 aromatic)	T215	AR	10	µg/l	N	003,007-009,015,017-019
TPH DW(C10-C12 aromatic)	T81	AR	10	µg/l	N	003,007-009,015,017-019
TPH DW(C12-C16 aromatic)	T81	AR	10	µg/l	N	003,007-009,015,017-019
TPH DW(C16-C21 aromatic)	T81	AR	10	µg/l	N	003,007-009,015,017-019
TPH DW(C21-C35 aromatic)	T81	AR	10	µg/l	N	003,007-009,015,017-019
TPH (C35-C44 aromatic)	T81	AR	10	µg/l	N	003,007-009,015,017-019
TPH (Aromatic) total	T85	AR		µg/l	N	003,007-009,015,017-019
TPH (Aliphatic+Aromatic) (sum)	T85	AR		µg/l	N	003,007-009,015,017-019
Benzene	T54	AR	1	µg/l	U	003,007-009,015-019
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	003,007-009,015-019
PCB BZ#101	T1	AR	0.005	µg/l	U	003,007-009,020
PCB BZ#118	T16	AR	0.005	µg/l	U	003,007-009,020
PCB BZ#138	T1	AR	0.005	µg/l	U	003,007-009,020
PCB BZ#153	T1	AR	0.005	µg/l	U	003,007-009,020
PCB BZ#180	T1	AR	0.005	µg/l	U	003,007-009,020
PCB BZ#28	T1	AR	0.005	µg/l	U	003,007-009,020
PCB BZ#52	T1	AR	0.005	µg/l	U	003,007-009,020
1,2,4-Trichlorobenzene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
1,2-Dichlorobenzene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
1,3-Dichlorobenzene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
1,4-Dichlorobenzene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2,4,5-Trichlorophenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2,4,6-Trichlorophenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2,4-Dichlorophenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2,4-Dimethylphenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2,4-Dinitrophenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2,4-Dinitrotoluene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2,6-Dinitrotoluene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2-Chloronaphthalene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2-Chlorophenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2-methyl phenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2-Methylnaphthalene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2-Nitroaniline	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
2-Nitrophenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
3-Nitroaniline	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
3/4-Methylphenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
4-Bromophenyl phenylether	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
4-Chloro-3-methylphenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
4-Chloroaniline	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
4-Chlorophenyl phenylether	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
4-Nitroaniline	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
4-Nitrophenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Acenaphthene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Acenaphthylene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Anthracene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Azobenzene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Benzo(a)Anthracene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Benzo(a)Pyrene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Benzo(b/k)Fluoranthene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Benzo(ghi)Perylene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Bis (2-chloroethoxy) methane	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Bis (2-chloroethyl) ether	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Bis (2-chloroisopropyl) ether	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Bis (2-ethylhexyl)phthalate	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Butyl benzylphthalate	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Carbazole	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Chrysene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Di-n-butylphthalate	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Di-n-octylphthalate	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Dibenzo(ah)Anthracene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Dibenzofuran	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Diethyl phthalate	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Dimethyl phthalate	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Fluoranthene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Fluorene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Hexachlorobenzene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Hexachlorobutadiene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Hexachlorocyclopentadiene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Hexachloroethane	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Indeno(123-cd)Pyrene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Isophorone	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Naphthalene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Nitrobenzene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Pentachlorophenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Phenanthrene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Phenol	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
Pyrene	T71	AR	1	µg/l	U	003,007-009,015-016,018-019
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,1,1-Trichloroethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,1,2-Trichloroethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,1,2-Trichloroethylene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,1-Dichloroethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,1-Dichloroethylene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,1-Dichloropropene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,2,3-Trichloropropane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,2-dibromoethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,2-Dichloroethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,2-Dichloropropane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,3-Dichlorobenzene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,3-Dichloropropane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
1,4-Dichlorobenzene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
2,2-Dichloropropane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
2-Chlorotoluene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
4-Chlorotoluene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Bromobenzene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Bromochloromethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Bromodichloromethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Bromoform	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Bromomethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Carbon tetrachloride	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Chlorobenzene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Chlorodibromomethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Chloroethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Chloroform	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Chloromethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Dibromomethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Dichlorodifluoromethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Dichloromethane	T54	AR	50	µg/l	N	003,007-009,015-016,018-019
EthylBenzene	T54	AR	1	µg/l	U	003,007-009,015-019
Isopropyl benzene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
M/P Xylene	T54	AR	1	µg/l	U	003,007-009,015-019
n-Propylbenzene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
O Xylene	T54	AR	1	µg/l	U	003,007-009,015-019
p-Isopropyltoluene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
S-Butylbenzene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Styrene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
T-Butylbenzene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Tetrachloroethene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Toluene	T54	AR	1	µg/l	U	003,007-009,015-019
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Trichlorofluoromethane	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Vinyl chloride	T54	AR	1	µg/l	U	003,007-009,015-016,018-019
Vinyl chloride	T215	AR	0.5	µg/l	N	003,007-009,015-016,018-019

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Certificate of Analysis

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Report Number: Second supplement to 358157-1

Date of Report: 22-Nov-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 57W, 58W and 59W
Date Job Received at SAL: 25-Oct-2013
Date Analysis Started: 31-Oct-2013
Date Analysis Completed: 13-Nov-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
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Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Lianne Bromiley
Assistant Customer Servic
Manager

SAL Reference: 358157
Project Site: A63 Castle St - 57W, 58W and 59W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**358157 001**	**358157 002**	**358157 003**	**358157 004**	**358157 005**	**358157 006**	**358157 007**	**358157 008**	**358157 009**	**358157 010**
				Customer Sample Reference	**SW1**	**SW2**	**SW3**	**SW5**	**SW6**	**SW4**	**BH43**	**BH42**	**WS01**	**WS03**
				Date Sampled	**23-OCT-2013**	**23-OCT-2013**	**23-OCT-2013**	**23-OCT-2013**	**23-OCT-2013**	**23-OCT-2013**	**23-OCT-2013**	**23-OCT-2013**	**25-OCT-2013**	**25-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**										
pH	T7	AR			**7.6**	**7.7**	**7.7**	**7.6**	**7.5**	**7.6**	**7.7**	**7.1**	**7.2**	**7.4**
As (Dissolved)	T281	AR	0.2	µg/l	**120**	**110**	**93**	**54**	**58**	**65**	**17**	**17**	**8.7**	**15**
Boron	T6	AR	10	µg/l	**1900**	**1900**	**1900**	**780**	**910**	**1900**	**760**	**410**	**760**	**650**
Cd (Dissolved)	T281	AR	0.02	µg/l	**0.13**	**0.13**	**0.10**	**0.07**	**0.08**	**0.08**	**0.03**	<0.02	<0.02	<0.02
Cr (Dissolved)	T281	AR	1	µg/l	**12**	**12**	**9**	**10**	**9**	**10**	**30**	**27**	**15**	**15**
Chromium (trivalent)	T85	AR	3	µg/l	**12**	**12**	**9**	**10**	**9**	**10**	**30**	**27**	**15**	**15**
Chromium VI	T686	AR	3	µg/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**8900**	**12000**	**10000**	**210**	**290**	**370**	**12**	**3.7**	**0.9**	<0.5
Pb (Dissolved)	T281	AR	0.3	µg/l	**0.6**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l	**19**	**18**	**15**	**8**	**9**	**10**	**9**	**4**	**5**	**6**
Se (Dissolved)	T281	AR	0.5	µg/l	<0.5	<0.5	<0.5	**24**	**19**	**19**	**11**	**3.1**	**3.7**	**4.1**
Zn (Dissolved)	T281	AR	2	µg/l	**8**	**26**	**21**	**6**	**6**	**7**	**6**	**2**	<2	<2
Calcium	T6	AR	100	µg/l	**180000**	**180000**	**180000**	**120000**	**130000**	**180000**	**180000**	**77000**	**85000**	**72000**
Magnesium	T6	AR	100	µg/l	**600000**	**590000**	**610000**	**210000**	**260000**	**610000**	**95000**	**28000**	**79000**	**56000**
Potassium	T6	AR	100	µg/l	**240000**	**230000**	**240000**	**78000**	**100000**	**240000**	**120000**	**48000**	**91000**	**69000**
Sodium	T6	AR	100	µg/l	**4800000**	**4600000**	**4700000**	**1600000**	**1900000**	**4600000**	**280000**	**140000**	**160000**	**120000**
Fe (Dissolved)	T373	AR	10	µg/l	**480**	**220**	**200**	**180**	**190**	**210**	**120**	**42**	**140**	**130**
Fe (Total)	T303	AR	10	µg/l	**20000**	**370**	**400**	**34000**	**52000**	**2400**	**8700**	**5800**	**59000**	**420000**
Mn (Dissolved)	T373	AR	10	µg/l	<10	**49**	**27**	<10	<10	**18**	**1400**	**440**	**650**	**270**
Mn (Total)	T303	AR	10	µg/l	**700**	**66**	**72**	**1500**	**2000**	**150**	**1400**	**460**	**2300**	**14000**
Nitrate	T686	AR	0.5	mg/l	**1.6**	**2.3**	**3.4**	**19**	**15**	**2.0**	**1.4**	**6.2**	**8.0**	**4.1**
Nitrite	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	**5.1**	**2.4**
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	**0.4**	**0.5**	**0.8**	**4.3**	**3.4**	**0.4**	**0.3**	**1.4**	**3.3**	**1.6**
Sulphate	T686	AR	0.5	mg/l	**1300**	**1300**	**1300**	**540**	**630**	**1300**	**180**	**64**	**100**	**30**
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**440**	**430**	**430**	**170**	**200**	**430**	**65**	**21**	**40**	**13**
Chloride	T686	AR	1	mg/l	**9900**	**9800**	**10000**	**3500**	**4200**	**10000**	**680**	**71**	**220**	**130**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**0.47**	**0.55**	**0.65**	**0.026**	**0.040**	**0.55**	**4.9**	**1.1**	**5.5**	**3.6**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**0.60**	**0.71**	**0.83**	**0.030**	**0.050**	**0.70**	**6.4**	**1.4**	**7.1**	**4.6**
Suspended Solids (Total)	T2	AR	10	mg/l	**500**	<10	<10	**1900**	**2900**	**41**	**85**	**35**	**2900**	**17000**
Electrical Conductivity	T7	AR	10	µS/cm	**26000**	**26000**	**26000**	**11000**	**13000**	**26000**	**3600**	**1300**	**2000**	**1500**
Alkalinity expressed as CaCO3	T22	AR	10	mg/l	**150**	**160**	**160**	**170**	**150**	**160**	-	-	-	-
Total Phenols	T16	AR	0.5	µg/l	**0.7**	**0.6**	**1.1**	**0.8**	**0.8**	**0.7**	**0.5**	<0.5	<0.5	(100) <0.7
Cyanide(Total)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Cyanide(free)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l	<0.01	<0.01	(100) <0.02	<0.01	<0.01	(100) <0.02	<0.01	<0.01	<0.01	(100) <0.02
Acenaphthylene	T149	AR	0.01	µg/l	<0.01	<0.01	(100) <0.02	<0.01	<0.01	(100) <0.02	<0.01	<0.01	<0.01	(100) <0.02
Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	(100) <0.02	<0.01	<0.01	(100) <0.02	<0.01	<0.01	<0.01	(100) <0.02
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	(100) <0.02	<0.01	<0.01	(100) <0.02	<0.01	<0.01	<0.01	(100) <0.02
Benzo(a)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	(100) <0.02	<0.01	<0.01	(100) <0.02	<0.01	<0.01	<0.01	(100) <0.02
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	(100) <0.02	<0.01	<0.01	(100) <0.02	<0.01	<0.01	<0.01	(100) <0.02
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	<0.01	<0.01	(100) <0.02	<0.01	<0.01	(100) <0.02	<0.01	<0.01	<0.01	(100) <0.02
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	(100) <0.02	<0.01	<0.01	(100) <0.02	<0.01	<0.01	<0.01	(100) <0.02
Chrysene	T149	AR	0.01	µg/l	<0.01	<0.01	(100) <0.02	<0.01	<0.01	(100) <0.02	<0.01	<0.01	<0.01	(100) <0.02
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	(100) <0.02	<0.01	<0.01	(100) <0.02	<0.01	<0.01	<0.01	(100) <0.02
Fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	(100) <0.02	<0.01	<0.01	(100) <0.02	<0.01	<0.01	<0.01	(100) <0.02
Fluorene	T149	AR	0.01	µg/l	<0.01	<0.01	(100) <0.02	<0.01	<0.01	(100) <0.02	<0.01	<0.01	<0.01	(100) <0.02
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	(100) <0.02	<0.01	<0.01	(100) <0.02	<0.01	<0.01	<0.01	(100) <0.02
Naphthalene	T149	AR	0.01	µg/l	<0.01	<0.01	(100) <0.02	<0.01	<0.01	(100) <0.02	<0.01	<0.01	**0.06**	**0.83**
Phenanthrene	T149	AR	0.01	µg/l	<0.01	<0.01	(100) <0.02	<0.01	<0.01	**0.02**	<0.01	<0.01	<0.01	(100) <0.02
Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	(100) <0.02	<0.01	<0.01	(100) <0.02	<0.01	<0.01	<0.01	(100) <0.02
PAH(total)	T149	AR	0.01	µg/l	<0.01	<0.01	(100) <0.02	<0.01	<0.01	**0.02**	<0.01	<0.01	**0.06**	**0.83**
TPH (C8-C10) DW	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l	<10	<10	<10	<10	<10	<10	**51**	<10	<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l	<10	**23**	<10	**21**	**13**	<10	<10	**11**	<10	<10

SAL Reference: 358157
Project Site: A63 Castle St - 57W, 58W and 59W
Customer Reference: 112630

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				SAL Reference	**358157 001**	**358157 002**	**358157 003**	**358157 004**	**358157 005**	**358157 006**	**358157 007**	**358157 008**	**358157 009**	**358157 010**
				Customer Sample Reference	**SW1**	**SW2**	**SW3**	**SW5**	**SW6**	**SW4**	**BH43**	**BH42**	**WS01**	**WS03**
				Date Sampled	**23-OCT-2013**	**23-OCT-2013**	**23-OCT-2013**	**23-OCT-2013**	**23-OCT-2013**	**23-OCT-2013**	**23-OCT-2013**	**23-OCT-2013**	**25-OCT-2013**	**25-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**										
TPH (C16-C21) DW	T81	AR	10	µg/l	**46**	**24**	**29**	**68**	**53**	**19**	<10	**39**	**33**	**20**
TPH (C21-C35) DW	T81	AR	10	µg/l	**76**	**17**	**28**	**70**	**54**	**16**	<10	**35**	**120**	**39**
TPH (C35-C40)	T81	AR	10	µg/l	**20**	<10	<10	**10**	**10**	<10	<10	<10	<10	<10
TPH (C8 - C40)	T85	AR	10	µg/l	**150**	**60**	**60**	**170**	**120**	**40**	**50**	**90**	**150**	**60**
Benzene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	-	-
EthylBenzene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	-	-
Toluene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	-	-
M/P Xylene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	-	-
O Xylene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	-	-
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	-	-

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				SAL Reference	**358157 011**	**358157 012**	**358157 013**	**358157 014**	**358157 015**	**358157 016**	**358157 017**	**358157 018**	**358157 019**	**358157 020**
				Customer Sample Reference	**BH14**	**BH15**	**BH18A**	**D6**	**BH45**	**BH41A**	**BH47**	**D5**	**BH29**	**BH24**
				Date Sampled	**25-OCT-2013**	**25-OCT-2013**	**25-OCT-2013**	**25-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**										
pH	T7	AR			**7.0**	**7.0**	**7.2**	**7.3**	**6.8**	**8.1**	**6.9**	**6.9**	**7.0**	**7.1**
As (Dissolved)	T281	AR	0.2	µg/l	**1.1**	**1.2**	**110**	**130**	**64**	**130**	**150**	**160**	**170**	**170**
Boron	T6	AR	10	µg/l	**51**	**48**	**1400**	**1400**	**1100**	**1400**	**970**	**1000**	**1800**	**1900**
Cd (Dissolved)	T281	AR	0.02	µg/l	**0.03**	**0.02**	**0.05**	**0.06**	**0.03**	**0.18**	**0.02**	<0.02	**0.03**	**0.04**
Cr (Dissolved)	T281	AR	1	µg/l	**6**	**3**	**8**	**9**	**14**	**11**	**37**	**37**	**10**	**11**
Chromium (trivalent)	T85	AR	3	µg/l	**6**	**3**	**8**	**9**	**14**	**11**	**37**	**37**	**10**	**11**
Chromium VI	T686	AR	3	µg/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	<0.5	**0.8**	**220**	**570**	**110**	**4700**	**500**	**430**	**4500**	**610**
Pb (Dissolved)	T281	AR	0.3	µg/l	<0.3	<0.3	**0.6**	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l	<0.05	**0.05**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l	**20**	**49**	**34**	**32**	**11**	**18**	**18**	**18**	**36**	**42**
Se (Dissolved)	T281	AR	0.5	µg/l	**3.7**	**3.7**	<0.5	<0.5	**28**	<0.5	<0.5	<0.5	<0.5	<0.5
Zn (Dissolved)	T281	AR	2	µg/l	**17**	**20**	**10**	**9**	**6**	**8**	**4**	**4**	**8**	**8**
Calcium	T6	AR	100	µg/l	**140000**	**130000**	**350000**	**360000**	**170000**	**160000**	**290000**	**290000**	**190000**	**200000**
Magnesium	T6	AR	100	µg/l	**7700**	**7900**	**470000**	**480000**	**250000**	**450000**	**410000**	**420000**	**570000**	**590000**
Potassium	T6	AR	100	µg/l	**3600**	**3900**	**210000**	**210000**	**130000**	**180000**	**120000**	**120000**	**210000**	**220000**
Sodium	T6	AR	100	µg/l	**30000**	**34000**	**4500000**	**4300000**	**1700000**	**3400000**	**3300000**	**3200000**	**4500000**	**4400000**
Fe (Dissolved)	T373	AR	10	µg/l	<10	<10	**200**	**210**	**190**	**200**	**360**	**370**	**210**	**220**
Fe (Total)	T303	AR	10	µg/l	**1500**	**2200**	**4100**	**4400**	**6200**	**7000**	**16000**	**16000**	**5500**	**4400**
Mn (Dissolved)	T373	AR	10	µg/l	**18**	**20**	**330**	**330**	**630**	**110**	**1100**	**1100**	**510**	**440**
Mn (Total)	T303	AR	10	µg/l	**55**	**90**	**340**	**360**	**620**	**490**	**1200**	**1200**	**510**	**460**
Nitrate	T686	AR	0.5	mg/l	**30**	**37**	**1.1**	**1.0**	**14**	<0.5	**0.6**	**0.8**	<0.5	<0.5
Nitrite	T686	AR	0.1	mg/l	**0.4**	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	**6.9**	**8.4**	**0.3**	**0.2**	**3.1**	<0.1	**0.1**	**0.2**	<0.1	<0.1
Sulphate	T686	AR	0.5	mg/l	**51**	**67**	**850**	**840**	**300**	**1000**	**19**	<0.5	**990**	**1000**
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**22**	**22**	**390**	**390**	**140**	**330**	**1.5**	**1.3**	**410**	**420**
Chloride	T686	AR	1	mg/l	**45**	**51**	**6300**	**6000**	**2600**	**7400**	**5100**	**5200**	**7300**	**7100**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**0.12**	**0.028**	**2.4**	**2.3**	**4.7**	**0.50**	**39**	**26**	**2.2**	**0.96**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**0.16**	**0.040**	**3.1**	**3.0**	**6.0**	**0.64**	**51**	**33**	**2.9**	**1.2**
Suspended Solids (Total)	T2	AR	10	mg/l	**35**	**53**	**41**	**55**	**50**	**520**	**130**	**130**	**41**	**33**
Electrical Conductivity	T7	AR	10	µS/cm	**850**	**870**	**25000**	**25000**	**12000**	**21000**	**21000**	**21000**	**26000**	**26000**
Total Phenols	T16	AR	0.5	µg/l	**3.0**	**9.4**	<0.5	**0.7**	**0.6**	**0.7**	**0.7**	**0.7**	**0.5**	**0.6**
Cyanide(Total)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Cyanide(free)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	**0.06**	**0.01**	<0.01	<0.01	<0.01
Acenaphthylene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	T149	AR	0.01	µg/l	<0.01	**0.03**	<0.01	<0.01	<0.01	**0.16**	**0.01**	<0.01	<0.01	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01	**0.03**	**0.03**	<0.01	<0.01	**0.34**	**0.02**	<0.01	<0.01	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l	<0.01	**0.02**	**0.02**	<0.01	<0.01	**0.33**	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	<0.01	**0.01**	**0.02**	<0.01	<0.01	**0.30**	**0.01**	<0.01	<0.01	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	**0.18**	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	<0.01	**0.01**	**0.02**	<0.01	<0.01	**0.27**	<0.01	<0.01	<0.01	<0.01
Chrysene	T149	AR	0.01	µg/l	<0.01	**0.03**	**0.03**	<0.01	<0.01	**0.32**	<0.01	<0.01	<0.01	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	**0.05**	<0.01	<0.01	<0.01	<0.01
Fluoranthene	T149	AR	0.01	µg/l	<0.01	**0.10**	**0.07**	<0.01	**0.04**	**0.71**	**0.02**	<0.01	<0.01	<0.01
Fluorene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.02**	<0.01	<0.01	**0.07**	**0.01**	<0.01	<0.01	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	**0.19**	<0.01	<0.01	<0.01	<0.01
Naphthalene	T149	AR	0.01	µg/l	**0.03**	**0.03**	**0.07**	**0.02**	<0.01	**0.13**	**0.04**	**0.02**	**0.02**	**0.03**
Phenanthrene	T149	AR	0.01	µg/l	<0.01	**0.06**	**0.11**	<0.01	**0.03**	**0.47**	**0.02**	<0.01	<0.01	<0.01
Pyrene	T149	AR	0.01	µg/l	<0.01	**0.07**	**0.07**	<0.01	**0.03**	**0.61**	**0.02**	<0.01	<0.01	<0.01
PAH(total)	T149	AR	0.01	µg/l	**0.03**	**0.39**	**0.46**	**0.02**	**0.10**	**4.2**	**0.16**	**0.02**	**0.02**	**0.03**
TPH (C8-C10) DW	T81	AR	10	µg/l	-	-	-	<10	<10	<10	<10	<10	-	-
TPH (C10-C12) DW	T81	AR	10	µg/l	-	-	-	<10	<10	<10	<10	**15**	-	-
TPH (C12-C16) DW	T81	AR	10	µg/l	-	-	-	<10	<10	**36**	<10	<10	-	-
TPH (C16-C21) DW	T81	AR	10	µg/l	-	-	-	**30**	**10**	**59**	**16**	**12**	-	-

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				SAL Reference	**358157 011**	**358157 012**	**358157 013**	**358157 014**	**358157 015**	**358157 016**	**358157 017**	**358157 018**	**358157 019**	**358157 020**
				Customer Sample Reference	**BH14**	**BH15**	**BH18A**	**D6**	**BH45**	**BH41A**	**BH47**	**D5**	**BH29**	**BH24**
				Date Sampled	**25-OCT-2013**	**25-OCT-2013**	**25-OCT-2013**	**25-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**										
TPH (C21-C35) DW	T81	AR	10	µg/l	-	-	-	**53**	<10	**58**	**11**	**10**	-	-
TPH (C35-C40)	T81	AR	10	µg/l	-	-	-	**10**	<10	<10	<10	<10	-	-
TPH (C8 - C40)	T85	AR	10	µg/l	-	-	-	**90**	**10**	**160**	**30**	**40**	-	-
TPH (C5-C6 aliphatic)	T215	AR	10	µg/l	<10	<10	<10	-	-	-	-	-	<10	<10
TPH (C6-C8 aliphatic)	T215	AR	10	µg/l	<10	<10	<10	-	-	-	-	-	<10	<10
TPH (C8-C10 aliphatic)	T215	AR	10	µg/l	<10	<10	<10	-	-	-	-	-	<10	<10
TPH DW(C10-C12 aliphatic)	T81	AR	10	µg/l	(100) <20	(100) <20	<10	-	-	-	-	-	**180**	<10
TPH DW(C12-C16 aliphatic)	T81	AR	10	µg/l	(100) <20	**46**	<10	-	-	-	-	-	**1300**	<10
TPH DW(C16-C21 aliphatic)	T81	AR	10	µg/l	(100) <20	**140**	**20**	-	-	-	-	-	**4800**	**15**
TPH DW(C21-C35 aliphatic)	T81	AR	10	µg/l	**45**	**100**	**90**	-	-	-	-	-	**25000**	**33**
TPH (C35-C44 aliphatic)	T81	AR	10	µg/l	(100) <20	(100) <20	<10	-	-	-	-	-	**1700**	<10
TPH (Aliphatic) total	T85	AR		µg/l	**40**	**290**	**110**	-	-	-	-	-	**33000**	**50**
TPH (C6-C7 aromatic)	T215	AR	10	µg/l	<10	<10	<10	-	-	-	-	-	<10	<10
TPH (C7-C8 aromatic)	T215	AR	10	µg/l	<10	<10	<10	-	-	-	-	-	<10	<10
TPH (C8-C10 aromatic)	T215	AR	10	µg/l	<10	<10	<10	-	-	-	-	-	<10	<10
TPH DW(C10-C12 aromatic)	T81	AR	10	µg/l	**66**	(100) <20	<10	-	-	-	-	-	**27**	<10
TPH DW(C12-C16 aromatic)	T81	AR	10	µg/l	(100) <20	**120**	<10	-	-	-	-	-	**220**	**31**
TPH DW(C16-C21 aromatic)	T81	AR	10	µg/l	(100) <20	**450**	<10	-	-	-	-	-	**600**	**180**
TPH DW(C21-C35 aromatic)	T81	AR	10	µg/l	(100) <20	**3300**	<10	-	-	-	-	-	**3900**	**1300**
TPH (C35-C44 aromatic)	T81	AR	10	µg/l	(100) <20	**240**	<10	-	-	-	-	-	**320**	**140**
TPH (Aromatic) total	T85	AR		µg/l	**70**	**4100**	<10	-	-	-	-	-	**5100**	**1700**
TPH (Aliphatic+Aromatic) (sum)	T85	AR		µg/l	**110**	**4400**	**110**	-	-	-	-	-	**38000**	**1700**
Benzene	T54	AR	1	µg/l	<1	<1	<1	-	-	<1	-	-	<1	<1
EthylBenzene	T54	AR	1	µg/l	<1	<1	<1	-	-	<1	-	-	<1	<1
Toluene	T54	AR	1	µg/l	<1	<1	<1	-	-	<1	-	-	<1	<1
M/P Xylene	T54	AR	1	µg/l	<1	<1	<1	-	-	<1	-	-	<1	<1
O Xylene	T54	AR	1	µg/l	<1	<1	<1	-	-	<1	-	-	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	**40**	**120**	<1	-	-	<1	-	-	<1	<1

SAL Reference: 358157
Project Site: A63 Castle St - 57W, 58W and 59W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**358157 021**	**358157 022**	**358157 023**	**358157 024**	**358157 025**	**358157 026**	**358157 027**	**358157 028**	**358157 029**
				Customer Sample Reference	**BH25**	**BH26**	**BH27**	**BH06**	**BH05**	**BH03**	**BH01**	**WS20**	**SBP02**
				Date Sampled	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
pH	T7	AR			**6.9**	**6.6**	**7.5**	**6.8**	**7.2**	**6.9**	**7.1**	**7.3**	**7.3**
As (Dissolved)	T281	AR	0.2	µg/l	**63**	**130**	**38**	**170**	**140**	**200**	**160**	**27**	**13**
Boron	T6	AR	10	µg/l	**550**	**370**	**740**	**1100**	**1400**	**1600**	**1600**	**510**	**520**
Cd (Dissolved)	T281	AR	0.02	µg/l	<0.02	**0.07**	<0.02	**0.04**	**0.04**	**0.07**	**0.03**	<0.02	**0.03**
Cr (Dissolved)	T281	AR	1	µg/l	**22**	**35**	**15**	**14**	**19**	**12**	**19**	**6**	**4**
Chromium (trivalent)	T85	AR	3	µg/l	**22**	**35**	**15**	**14**	**19**	**12**	**19**	**6**	**4**
Chromium VI	T686	AR	3	µg/l	<3	<3	<3	<3	<3	<3	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**80**	**430**	**19**	**390**	**220**	**700**	**300**	**17**	**12**
Pb (Dissolved)	T281	AR	0.3	µg/l	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l	**15**	**40**	**13**	**35**	**13**	**32**	**20**	**5**	**11**
Se (Dissolved)	T281	AR	0.5	µg/l	**32**	<0.5	**7.2**	<0.5	**37**	<0.5	**15**	**2.9**	**10**
Zn (Dissolved)	T281	AR	2	µg/l	**3**	**6**	**3**	**7**	**20**	**10**	**6**	**2**	**3**
Calcium	T6	AR	100	µg/l	**170000**	**360000**	**81000**	**540000**	**84000**	**350000**	**110000**	**78000**	**110000**
Magnesium	T6	AR	100	µg/l	**130000**	**350000**	**93000**	**480000**	**240000**	**540000**	**280000**	**30000**	**36000**
Potassium	T6	AR	100	µg/l	**65000**	**94000**	**84000**	**92000**	**88000**	**180000**	**93000**	**79000**	**50000**
Sodium	T6	AR	100	µg/l	**840000**	**2900000**	**220000**	**3200000**	**2600000**	**4000000**	**2800000**	**660000**	**270000**
Fe (Dissolved)	T373	AR	10	µg/l	**1200**	**280**	**280**	**200**	**390**	**210**	**300**	**110**	**51**
Fe (Total)	T303	AR	10	µg/l	**28000**	**10000**	**12000**	**160000**	**88000**	**63000**	**22000**	**32000**	**620000**
Mn (Dissolved)	T373	AR	10	µg/l	**2700**	**5800**	**860**	**2600**	**860**	**1200**	**1400**	**580**	**930**
Mn (Total)	T303	AR	10	µg/l	**3100**	**5800**	**1200**	**17000**	**2500**	**3900**	**2000**	**1600**	**38000**
Nitrate	T686	AR	0.5	mg/l	**0.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrite	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	**0.2**	<0.1	<0.1	**0.1**	**0.1**	<0.1	**0.1**	<0.1	**0.1**
Sulphate	T686	AR	0.5	mg/l	**210**	**52**	<0.5	**550**	**23**	**850**	**45**	**160**	**180**
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**79**	**18**	**1.9**	**280**	**5.5**	**380**	**14**	**86**	**92**
Chloride	T686	AR	1	mg/l	**1300**	**5600**	**170**	**5000**	**3300**	**6500**	**3700**	**550**	**230**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**7.7**	**31**	**5.5**	**3.3**	**15**	**1.5**	**13**	**0.40**	**0.67**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**9.9**	**40**	**7.1**	**4.3**	**20**	**1.9**	**16**	**0.51**	**0.86**
Suspended Solids (Total)	T2	AR	10	mg/l	**3500**	**31**	**360**	**12000**	**3300**	**5600**	**2200**	**1700**	**11000**
Electrical Conductivity	T7	AR	10	µS/cm	**6500**	**19000**	**2200**	**22000**	**16000**	**25000**	**17000**	**4100**	**2200**
Total Phenols	T16	AR	0.5	µg/l	**0.7**	**0.7**	**0.7**	**0.6**	**0.8**	**0.7**	**0.9**	**0.6**	**0.9**
Cyanide(Total)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10
Cyanide(free)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l	**0.07**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.02**	**0.08**
Acenaphthylene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.03**
Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.09**
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.02**	**0.19**
Benzo(a)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.02**	**0.16**
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	**0.02**	<0.01	<0.01	**0.01**	**0.03**	**0.21**
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.02**	**0.19**
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.02**	**0.16**
Chrysene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	**0.04**	<0.01	<0.01	**0.01**	**0.04**	**0.21**
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.01**	**0.24**
Fluoranthene	T149	AR	0.01	µg/l	<0.01	**0.01**	**0.18**	**0.03**	<0.01	<0.01	**0.02**	**0.03**	**0.18**
Fluorene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.07**
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.01**	**0.21**
Naphthalene	T149	AR	0.01	µg/l	**0.04**	**0.02**	**0.01**	**0.04**	**0.34**	<0.01	**0.07**	**0.04**	**0.08**
Phenanthrene	T149	AR	0.01	µg/l	<0.01	**0.01**	**0.02**	**0.07**	**0.01**	<0.01	**0.02**	**0.06**	**0.14**
Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.01**	**0.05**	<0.01	<0.01	**0.02**	**0.05**	**0.20**
PAH(total)	T149	AR	0.01	µg/l	**0.11**	**0.04**	**0.22**	**0.25**	**0.35**	<0.01	**0.15**	**0.37**	**2.4**
TPH (C8-C10) DW	T81	AR	10	µg/l	<10	-	<10	**20**	-	<10	-	<10	**18**
TPH (C10-C12) DW	T81	AR	10	µg/l	<10	-	<10	**47**	-	<10	-	<10	**28**
TPH (C12-C16) DW	T81	AR	10	µg/l	**20**	-	<10	<10	-	**49**	-	<10	**20**
TPH (C16-C21) DW	T81	AR	10	µg/l	**38**	-	**22**	<10	-	**130**	-	**53**	**270**

SAL Reference: 358157
Project Site: A63 Castle St - 57W, 58W and 59W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**358157 021**	**358157 022**	**358157 023**	**358157 024**	**358157 025**	**358157 026**	**358157 027**	**358157 028**	**358157 029**
				Customer Sample Reference	**BH25**	**BH26**	**BH27**	**BH06**	**BH05**	**BH03**	**BH01**	**WS20**	**SBP02**
				Date Sampled	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
TPH (C21-C35) DW	T81	AR	10	µg/l	**33**	-	**27**	<10	-	**90**	-	**240**	**2500**
TPH (C35-C40)	T81	AR	10	µg/l	<10	-	<10	<10	-	**13**	-	**11**	**170**
TPH (C8 - C40)	T85	AR	10	µg/l	**90**	-	**50**	**70**	-	**280**	-	**300**	**3010**
TPH (C5-C6 aliphatic)	T215	AR	10	µg/l	-	<10	-	-	<10	-	<10	-	-
TPH (C6-C8 aliphatic)	T215	AR	10	µg/l	-	<10	-	-	<10	-	<10	-	-
TPH (C8-C10 aliphatic)	T215	AR	10	µg/l	-	<10	-	-	<10	-	<10	-	-
TPH DW(C10-C12 aliphatic)	T81	AR	10	µg/l	-	(100) <50	-	-	<10	-	<10	-	-
TPH DW(C12-C16 aliphatic)	T81	AR	10	µg/l	-	(100) <50	-	-	**10**	-	<10	-	-
TPH DW(C16-C21 aliphatic)	T81	AR	10	µg/l	-	**50**	-	-	**68**	-	<10	-	-
TPH DW(C21-C35 aliphatic)	T81	AR	10	µg/l	-	**110**	-	-	**400**	-	**14**	-	-
TPH (C35-C44 aliphatic)	T81	AR	10	µg/l	-	(100) <50	-	-	**70**	-	<10	-	-
TPH (Aliphatic) total	T85	AR		µg/l	-	**160**	-	-	**550**	-	**10**	-	-
TPH (C6-C7 aromatic)	T215	AR	10	µg/l	-	<10	-	-	<10	-	<10	-	-
TPH (C7-C8 aromatic)	T215	AR	10	µg/l	-	<10	-	-	<10	-	<10	-	-
TPH (C8-C10 aromatic)	T215	AR	10	µg/l	-	<10	-	-	<10	-	<10	-	-
TPH DW(C10-C12 aromatic)	T81	AR	10	µg/l	-	(100) <50	-	-	<10	-	<10	-	-
TPH DW(C12-C16 aromatic)	T81	AR	10	µg/l	-	**100**	-	-	**47**	-	<10	-	-
TPH DW(C16-C21 aromatic)	T81	AR	10	µg/l	-	**210**	-	-	**230**	-	<10	-	-
TPH DW(C21-C35 aromatic)	T81	AR	10	µg/l	-	**80**	-	-	**1200**	-	**13**	-	-
TPH (C35-C44 aromatic)	T81	AR	10	µg/l	-	(100) <50	-	-	**170**	-	<10	-	-
TPH (Aromatic) total	T85	AR		µg/l	-	**390**	-	-	**1700**	-	**10**	-	-
TPH (Aliphatic+Aromatic) (sum)	T85	AR		µg/l	-	**550**	-	-	**2200**	-	**20**	-	-
Benzene	T54	AR	1	µg/l	-	<1	-	-	<1	-	<1	-	-
EthylBenzene	T54	AR	1	µg/l	-	<1	-	-	<1	-	<1	-	-
Toluene	T54	AR	1	µg/l	-	<1	-	-	<1	-	<1	-	-
M/P Xylene	T54	AR	1	µg/l	-	<1	-	-	<1	-	<1	-	-
O Xylene	T54	AR	1	µg/l	-	<1	-	-	<1	-	<1	-	-
Methyl tert-Butyl Ether	T54	AR	1	µg/l	-	<1	-	-	<1	-	<1	-	-

SAL Reference: 358157
Project Site: A63 Castle St - 57W, 58W and 59W
Customer Reference: 112630

Water Analysed as Water
Volatile Organic Compounds (USEPA 624)

				SAL Reference	**358157 011**	**358157 012**	**358157 013**	**358157 016**	**358157 019**	**358157 020**	**358157 022**	**358157 025**	**358157 027**
				Customer Sample Reference	**BH14**	**BH15**	**BH18A**	**BH41A**	**BH29**	**BH24**	**BH26**	**BH05**	**BH01**
				Date Sampled	**25-OCT-2013**	**25-OCT-2013**	**25-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**	**24-OCT-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**									
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethylene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethylene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloropropene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichloropropane	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
2,2-Dichloropropane	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorotoluene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorotoluene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	T54	AR	1	µg/l	**5**	**4**	<1	<1	<1	<1	<1	<1	<1
Bromomethane	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorodibromomethane	T54	AR	1	µg/l	**3**	**3**	<1	<1	<1	<1	<1	<1	<1
Chloroethane	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichloromethane	T54	AR	50	µg/l	<50	<50	<50	<50	<50	<50	<50	<50	<50
EthylBenzene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropyl benzene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
M/P Xylene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Propylbenzene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
O Xylene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
S-Butylbenzene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
T-Butylbenzene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	T54	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl chloride	T215	AR	0.5	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

SAL Reference: 358157
Project Site: A63 Castle St - 57W, 58W and 59W
Customer Reference: 112630

Water Analysed as Water

Semi-Volatile Organic Compounds (USEPA 625) Low Level

					SAL Reference	358157 011	358157 012	358157 013	358157 016	358157 019	358157 020	358157 022	358157 025	358157 027
					Customer Sample Reference	BH14	BH15	BH18A	BH41A	BH29	BH24	BH26	BH05	BH01
					Date Sampled	25-OCT-2013	25-OCT-2013	25-OCT-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013
Determinand	**Method**	**Test Sample**	**LOD**	**Units**										
1,2,4-Trichlorobenzene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4,5-Trichlorophenol	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4,6-Trichlorophenol	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dichlorophenol	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dimethylphenol	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
2,4-Dinitrophenol	T71	AR	1	µg/l		(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5
2,4-Dinitrotoluene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
2,6-Dinitrotoluene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chloronaphthalene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Chlorophenol	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
2-methyl phenol	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Methylnaphthalene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Nitroaniline	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Nitrophenol	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
3-Nitroaniline	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
3/4-Methylphenol	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Bromophenyl phenylether	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloro-3-methylphenol	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chloroaniline	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Chlorophenyl phenylether	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitroaniline	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
4-Nitrophenol	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	(36) <5	<1	<1
Acenaphthene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Acenaphthylene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Anthracene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Azobenzene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)Anthracene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)Pyrene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(b/k)Fluoranthene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(ghi)Perylene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis (2-chloroethoxy) methane	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis (2-chloroethyl) ether	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis (2-chloroisopropyl) ether	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Bis (2-ethylhexyl)phthalate	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzylphthalate	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbazole	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Chrysene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Di-n-butylphthalate	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Di-n-octylphthalate	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzo(ah)Anthracene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibenzofuran	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Diethyl phthalate	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Dimethyl phthalate	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	(36) <5	<1	<1
Fluoranthene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Fluorene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobenzene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorobutadiene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachlorocyclopentadiene	T71	AR	1	µg/l		(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5
Hexachloroethane	T71	AR	1	µg/l		(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	<1	(36) <5	(36) <5
Indeno(123-cd)Pyrene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Isophorone	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Naphthalene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Nitrobenzene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Pentachlorophenol	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenanthrene	T71	AR	1	µg/l		<1	<1	<1	<1	<1	<1	<1	<1	<1
Phenol	T71	AR	1	µg/l		(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5	(36) <5

SAL Reference: 358157
Project Site: A63 Castle St - 57W, 58W and 59W
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Water Analysed as Water
Semi-Volatile Organic Compounds (USEPA 625) Low Level

SAL Reference	358157 011	358157 012	358157 013	358157 016	358157 019	358157 020	358157 022	358157 025	358157 027
Customer Sample Reference	BH14	BH15	BH18A	BH41A	BH29	BH24	BH26	BH05	BH01
Date Sampled	25-OCT-2013	25-OCT-2013	25-OCT-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013

Determinand	Method	Test Sample	LOD	Units								
Pyrene	T71	AR	1	µg/l	<1	<1	<1	<1	<1	<1	<1	<1	<1

SAL Reference: 358157
Project Site: A63 Castle St - 57W, 58W and 59W
Customer Reference: 112630

Water Analysed as Water
PCBs EC7 congeners(28,52,101,118,138,153,180)

SAL Reference	358157 013	358157 016	358157 020	358157 021	358157 024	358157 028
Customer Sample Reference	BH18A	BH41A	BH24	BH25	BH06	WS20
Date Sampled	25-OCT-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013	24-OCT-2013

Determinand	Method	Test Sample	LOD	Units						
PCB BZ#101	T1	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#118	T16	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#138	T1	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#153	T1	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#180	T1	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#28	T1	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
PCB BZ#52	T1	AR	0.005	µg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Index to symbols used in Second supplement to 358157-1

Value	Description
AR	As Received
36	LOD Raised due to low Matrix spike recovery
100	LOD determined by sample aliquot used for analysis
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Second supplemental report issued to report the copper re-extraction results for sample 14 and to correct the TPH Ali/Aro results by GC/FID for sample 13

Method Index

Value	Description
T373	ICP/OES (Filtered)
T85	Calc
T215	GC/MS (Headspace)(LV)
T22	Titration
T65	ICP/OES (Preconc.)
T2	Grav
T149	GC/MS (SIR)
T281	ICP/MS (Filtered)
T686	Discrete Analyser
T179	Colorimetry (XION 500)
T71	GC/MS (1l ext.)
T1	GC/MS (HR)
T16	GC/MS
T54	GC/MS (Headspace)
T6	ICP/OES
T303	ICP-OES (Total)
T7	Probe

T4	Colorimetry
T81	GC/FID (LV)
T220	Colorimetry (SD)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
pH	T7	AR			U	001-029
As (Dissolved)	T281	AR	0.2	µg/l	U	001-029
Boron	T6	AR	10	µg/l	N	001-029
Cd (Dissolved)	T281	AR	0.02	µg/l	U	001-029
Cr (Dissolved)	T281	AR	1	µg/l	U	001-029
Chromium (trivalent)	T85	AR	3	µg/l	N	001-029
Chromium VI	T686	AR	3	µg/l	U	001-029
Cu (Dissolved)	T281	AR	0.5	µg/l	U	001-029
Pb (Dissolved)	T281	AR	0.3	µg/l	U	001-029
Hg (Dissolved)	T281	AR	0.05	µg/l	U	001-029
Ni (Dissolved)	T281	AR	1	µg/l	U	001-029
Se (Dissolved)	T281	AR	0.5	µg/l	U	001-029
Zn (Dissolved)	T281	AR	2	µg/l	U	001-029
Calcium	T6	AR	100	µg/l	N	001-029
Magnesium	T6	AR	100	µg/l	N	001-029
Potassium	T6	AR	100	µg/l	N	001-029
Sodium	T6	AR	100	µg/l	N	001-029
Fe (Dissolved)	T373	AR	10	µg/l	U	001-029
Fe (Total)	T303	AR	10	µg/l	U	001-029
Mn (Dissolved)	T373	AR	10	µg/l	U	001-029
Mn (Total)	T303	AR	10	µg/l	U	001-029
Nitrate	T686	AR	0.5	mg/l	U	001-029
Nitrite	T686	AR	0.1	mg/l	U	001-029
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	001-029
Sulphate	T686	AR	0.5	mg/l	U	001-029
Sulphide	T4	AR	0.05	mg/l	N	001-029
Sulphur (total)	T65	AR	0.01	mg/l	N	001-029
Chloride	T686	AR	1	mg/l	U	001-029
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	001-029
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	001-029
Suspended Solids (Total)	T2	AR	10	mg/l	N	001-029
Electrical Conductivity	T7	AR	10	µS/cm	N	001-029
Alkalinity expressed as CaCO3	T22	AR	10	mg/l	N	001-006
Total Phenols	T16	AR	0.5	µg/l	U	001-029
Cyanide(Total)	T220	AR	10	µg/l	WU	001-029
Cyanide(free)	T220	AR	10	µg/l	WN	001-029
Acenaphthene	T149	AR	0.01	µg/l	U	001-029
Acenaphthylene	T149	AR	0.01	µg/l	U	001-029
Anthracene	T149	AR	0.01	µg/l	U	001-029
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	001-029
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	001-029
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	001-029
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	001-029
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	001-029
Chrysene	T149	AR	0.01	µg/l	U	001-029
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	001-029
Fluoranthene	T149	AR	0.01	µg/l	U	001-029
Fluorene	T149	AR	0.01	µg/l	U	001-029
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	001-029
Naphthalene	T149	AR	0.01	µg/l	U	001-029
Phenanthrene	T149	AR	0.01	µg/l	U	001-029
Pyrene	T149	AR	0.01	µg/l	U	001-029
PAH(total)	T149	AR	0.01	µg/l	U	001-029
TPH (C8-C10) DW	T81	AR	10	µg/l	U	001-010,014-018,021,023-024,026,028-029
TPH (C10-C12) DW	T81	AR	10	µg/l	U	001-010,014-018,021,023-024,026,028-029
TPH (C12-C16) DW	T81	AR	10	µg/l	U	001-010,014-018,021,023-024,026,028-029
TPH (C16-C21) DW	T81	AR	10	µg/l	U	001-010,014-018,021,023-024,026,028-029
TPH (C21-C35) DW	T81	AR	10	µg/l	U	001-010,014-018,021,023-024,026,028-029
TPH (C35-C40)	T81	AR	10	µg/l	N	001-010,014-018,021,023-024,026,028-029
TPH (C8 - C40)	T85	AR	10	µg/l	N	001-010,014-018,021,023-024,026,028-029
TPH (C5-C6 aliphatic)	T215	AR	10	µg/l	N	011-013,019-020,022,025,027
TPH (C6-C8 aliphatic)	T215	AR	10	µg/l	N	011-013,019-020,022,025,027
TPH (C8-C10 aliphatic)	T215	AR	10	µg/l	N	011-013,019-020,022,025,027

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
TPH DW(C10-C12 aliphatic)	T81	AR	10	µg/l	N	011-013,019-020,022,025,027
TPH DW(C12-C16 aliphatic)	T81	AR	10	µg/l	N	011-013,019-020,022,025,027
TPH DW(C16-C21 aliphatic)	T81	AR	10	µg/l	N	011-013,019-020,022,025,027
TPH DW(C21-C35 aliphatic)	T81	AR	10	µg/l	N	011-013,019-020,022,025,027
TPH (C35-C44 aliphatic)	T81	AR	10	µg/l	N	011-013,019-020,022,025,027
TPH (Aliphatic) total	T85	AR		µg/l	N	011-013,019-020,022,025,027
TPH (C6-C7 aromatic)	T215	AR	10	µg/l	N	011-013,019-020,022,025,027
TPH (C7-C8 aromatic)	T215	AR	10	µg/l	N	011-013,019-020,022,025,027
TPH (C8-C10 aromatic)	T215	AR	10	µg/l	N	011-013,019-020,022,025,027
TPH DW(C10-C12 aromatic)	T81	AR	10	µg/l	N	011-013,019-020,022,025,027
TPH DW(C12-C16 aromatic)	T81	AR	10	µg/l	N	011-013,019-020,022,025,027
TPH DW(C16-C21 aromatic)	T81	AR	10	µg/l	N	011-013,019-020,022,025,027
TPH DW(C21-C35 aromatic)	T81	AR	10	µg/l	N	011-013,019-020,022,025,027
TPH (C35-C44 aromatic)	T81	AR	10	µg/l	N	011-013,019-020,022,025,027
TPH (Aromatic) total	T85	AR		µg/l	N	011-013,019-020,022,025,027
TPH (Aliphatic+Aromatic) (sum)	T85	AR		µg/l	N	011-013,019-020,022,025,027
Benzene	T54	AR	1	µg/l	U	001-008,011-013,016,019-020,022,025,027
EthylBenzene	T54	AR	1	µg/l	U	001-008,011-013,016,019-020,022,025,027
Toluene	T54	AR	1	µg/l	U	001-008,011-013,016,019-020,022,025,027
M/P Xylene	T54	AR	1	µg/l	U	001-008,011-013,016,019-020,022,025,027
O Xylene	T54	AR	1	µg/l	U	001-008,011-013,016,019-020,022,025,027
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	001-008,011-013,016,019-020,022,025,027
PCB BZ#101	T1	AR	0.005	µg/l	U	013,016,020-021,024,028
PCB BZ#118	T16	AR	0.005	µg/l	U	013,016,020-021,024,028
PCB BZ#138	T1	AR	0.005	µg/l	U	013,016,020-021,024,028
PCB BZ#153	T1	AR	0.005	µg/l	U	013,016,020-021,024,028
PCB BZ#180	T1	AR	0.005	µg/l	U	013,016,020-021,024,028
PCB BZ#28	T1	AR	0.005	µg/l	U	013,016,020-021,024,028
PCB BZ#52	T1	AR	0.005	µg/l	U	013,016,020-021,024,028
1,2,4-Trichlorobenzene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
1,2-Dichlorobenzene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
1,3-Dichlorobenzene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
1,4-Dichlorobenzene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
2,4,5-Trichlorophenol	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
2,4,6-Trichlorophenol	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
2,4-Dichlorophenol	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
2,4-Dimethylphenol	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
2,4-Dinitrophenol	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
2,4-Dinitrotoluene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
2,6-Dinitrotoluene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
2-Chloronaphthalene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
2-Chlorophenol	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
2-methyl phenol	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
2-Methylnaphthalene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
2-Nitroaniline	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
2-Nitrophenol	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
3-Nitroaniline	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
3/4-Methylphenol	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
4-Bromophenyl phenylether	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
4-Chloro-3-methylphenol	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
4-Chloroaniline	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
4-Chlorophenyl phenylether	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
4-Nitroaniline	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
4-Nitrophenol	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Acenaphthene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Acenaphthylene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Anthracene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Azobenzene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Benzo(a)Anthracene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Benzo(a)Pyrene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Benzo(b/k)Fluoranthene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Benzo(ghi)Perylene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Bis (2-chloroethoxy) methane	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Bis (2-chloroethyl) ether	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Bis (2-chloroisopropyl) ether	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Bis (2-ethylhexyl)phthalate	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Butyl benzylphthalate	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Carbazole	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Chrysene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Di-n-butylphthalate	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Di-n-octylphthalate	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Dibenzo(ah)Anthracene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Dibenzofuran	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Diethyl phthalate	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Dimethyl phthalate	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Fluoranthene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Fluorene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Hexachlorobenzene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Hexachlorobutadiene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Hexachlorocyclopentadiene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Hexachloroethane	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Indeno(123-cd)Pyrene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Isophorone	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Naphthalene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Nitrobenzene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Pentachlorophenol	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Phenanthrene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Phenol	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Pyrene	T71	AR	1	µg/l	U	011-013,016,019-020,022,025,027
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
1,1,1-Trichloroethane	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
1,1,2-Trichloroethane	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
1,1,2-Trichloroethylene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
1,1-Dichloroethane	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
1,1-Dichloroethylene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
1,1-Dichloropropene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
1,2,3-Trichloropropane	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
1,2-dibromoethane	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
1,2-Dichloroethane	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
1,2-Dichloropropane	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
1,3-Dichlorobenzene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
1,3-Dichloropropane	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
1,4-Dichlorobenzene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
2,2-Dichloropropane	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
2-Chlorotoluene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
4-Chlorotoluene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Bromobenzene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Bromochloromethane	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Bromodichloromethane	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Bromoform	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Bromomethane	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Carbon tetrachloride	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Chlorobenzene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Chlorodibromomethane	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Chloroethane	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Chloroform	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Chloromethane	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Dibromomethane	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Dichlorodifluoromethane	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Dichloromethane	T54	AR	50	µg/l	N	011-013,016,019-020,022,025,027
Isopropyl benzene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
n-Propylbenzene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
p-Isopropyltoluene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
S-Butylbenzene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Styrene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
T-Butylbenzene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Tetrachloroethene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Trichlorofluoromethane	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Vinyl chloride	T54	AR	1	µg/l	U	011-013,016,019-020,022,025,027
Vinyl chloride	T215	AR	0.5	µg/l	N	011-013,016,019-020,022,025,027

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 363724-1

Date of Report: 04-Dec-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Zoe Miller

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 60W
Date Job Received at SAL: 28-Nov-2013
Date Analysis Started: 29-Nov-2013
Date Analysis Completed: 04-Dec-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

SAL Reference: 363724
Project Site: A63 Castle St - 60W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

					SAL Reference	363724 001	363724 002
					Customer Sample Reference	LDBH_01 (A)	LDBH_01 (B)
					Date Sampled	27-NOV-2013	27-NOV-2013
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
pH	T7	AR				**7.2**	**7.1**
As (Dissolved)	T281	AR	0.2	µg/l		**130**	**110**
Boron	T6	AR	10	µg/l		**1900**	**1900**
Cd (Dissolved)	T281	AR	0.02	µg/l		**0.15**	**0.05**
Cr (Dissolved)	T281	AR	1	µg/l		**12**	**12**
Chromium (trivalent)	T85	AR	3	µg/l		**12**	**12**
Chromium VI	T686	AR	3	µg/l		<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l		**94**	**160**
Pb (Dissolved)	T281	AR	0.3	µg/l		<0.3	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l		**0.10**	<0.05
Ni (Dissolved)	T281	AR	1	µg/l		**32**	**31**
Se (Dissolved)	T281	AR	0.5	µg/l		<0.5	<0.5
Zn (Dissolved)	T281	AR	2	µg/l		**51**	**40**
Calcium	T6	AR	100	µg/l		**260000**	**260000**
Magnesium	T6	AR	100	µg/l		**580000**	**580000**
Potassium	T6	AR	100	µg/l		**230000**	**230000**
Sodium	T6	AR	100	µg/l		**4400000**	**4200000**
Fe (Dissolved)	T373	AR	10	µg/l		<10	**33**
Fe (Total)	T303	AR	10	µg/l		**9700**	**6800**
Mn (Dissolved)	T373	AR	10	µg/l		**420**	**420**
Mn (Total)	T303	AR	10	µg/l		**430**	**440**
Nitrate	T686	AR	0.5	mg/l		<0.5	<0.5
Nitrite	T686	AR	0.1	mg/l		<0.1	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l		<0.1	<0.1
Sulphate	T686	AR	0.5	mg/l		**1200**	**1200**
Sulphide	T4	AR	0.05	mg/l		<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l		**420**	**420**
Chloride	T686	AR	1	mg/l		**10000**	**9500**
Ammoniacal nitrogen	T179	AR	0.015	mg/l		**1.2**	**1.2**
Ammonia expressed as NH4	T179	AR	0.019	mg/l		**1.6**	**1.5**
Suspended Solids (Total)	T2	AR	10	mg/l		**74**	**85**
Total Organic Carbon	T21	AR	1	mg/l		**4**	**5**
Electrical Conductivity	T7	AR	10	µS/cm		**26000**	**26000**
Alkalinity expressed as CaCO3	T22	AR	10	mg/l		**200**	**190**
Total Phenols	T16	AR	0.5	µg/l		<0.5	<0.5
Cyanide(Total)	T220	AR	10	µg/l		**36**	**71**
Cyanide(free)	T220	AR	10	µg/l		**24**	**31**
Acenaphthene	T149	AR	0.01	µg/l		<0.01	<0.01
Acenaphthylene	T149	AR	0.01	µg/l		<0.01	<0.01
Anthracene	T149	AR	0.01	µg/l		<0.01	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l		<0.01	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l		<0.01	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l		**0.02**	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l		**0.01**	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l		**0.01**	<0.01
Chrysene	T149	AR	0.01	µg/l		**0.01**	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l		**0.02**	<0.01
Fluoranthene	T149	AR	0.01	µg/l		<0.01	<0.01
Fluorene	T149	AR	0.01	µg/l		<0.01	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l		**0.02**	<0.01
Naphthalene	T149	AR	0.01	µg/l		**0.05**	**0.02**
Phenanthrene	T149	AR	0.01	µg/l		**0.01**	**0.02**
Pyrene	T149	AR	0.01	µg/l		<0.01	<0.01
PAH(total)	T149	AR	0.01	µg/l		**0.15**	**0.04**
TPH (C8-C10) DW	T81	AR	10	µg/l		<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l		<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l		<10	<10

SAL Reference:	363724
Project Site:	A63 Castle St - 60W
Customer Reference:	112630

Water Analysed as Water

Grontmij A63 Hull Standard Suite

SAL Reference	**363724 001**	**363724 002**
Customer Sample Reference	**LDBH_01 (A)**	**LDBH_01 (B)**
Date Sampled	**27-NOV-2013**	**27-NOV-2013**

Determinand	Method	Test Sample	LOD	Units		
TPH (C16-C21) DW	T81	AR	10	µg/l	<10	<10
TPH (C21-C35) DW	T81	AR	10	µg/l	<10	<10
TPH (C35-C40)	T81	AR	10	µg/l	<10	<10
TPH (C8 - C40)	T85	AR	10	µg/l	<10	<10

Index to symbols used in 363724-1

Value	Description
AR	As Received
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T149	GC/MS (SIR)
T81	GC/FID (LV)
T16	GC/MS
T85	Calc
T2	Grav
T220	Colorimetry (SD)
T7	Probe
T686	Discrete Analyser
T65	ICP/OES (Preconc.)
T4	Colorimetry
T21	OX/IR
T179	Colorimetry (XION 500)
T373	ICP/OES (Filtered)
T6	ICP/OES
T281	ICP/MS (Filtered)
T22	Titration
T303	ICP-OES (Total)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
pH	T7	AR			U	001-002
As (Dissolved)	T281	AR	0.2	µg/l	U	001-002
Boron	T6	AR	10	µg/l	N	001-002
Cd (Dissolved)	T281	AR	0.02	µg/l	U	001-002
Cr (Dissolved)	T281	AR	1	µg/l	U	001-002
Chromium (trivalent)	T85	AR	3	µg/l	N	001-002
Chromium VI	T686	AR	3	µg/l	U	001-002
Cu (Dissolved)	T281	AR	0.5	µg/l	U	001-002
Pb (Dissolved)	T281	AR	0.3	µg/l	U	001-002
Hg (Dissolved)	T281	AR	0.05	µg/l	U	001-002
Ni (Dissolved)	T281	AR	1	µg/l	U	001-002
Se (Dissolved)	T281	AR	0.5	µg/l	U	001-002
Zn (Dissolved)	T281	AR	2	µg/l	U	001-002
Calcium	T6	AR	100	µg/l	N	001-002
Magnesium	T6	AR	100	µg/l	N	001-002
Potassium	T6	AR	100	µg/l	N	001-002
Sodium	T6	AR	100	µg/l	N	001-002
Fe (Dissolved)	T373	AR	10	µg/l	U	001-002
Fe (Total)	T303	AR	10	µg/l	U	001-002

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Mn (Dissolved)	T373	AR	10	µg/l	U	001-002
Mn (Total)	T303	AR	10	µg/l	U	001-002
Nitrate	T686	AR	0.5	mg/l	U	001-002
Nitrite	T686	AR	0.1	mg/l	U	001-002
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	001-002
Sulphate	T686	AR	0.5	mg/l	U	001-002
Sulphide	T4	AR	0.05	mg/l	N	001-002
Sulphur (total)	T65	AR	0.01	mg/l	N	001-002
Chloride	T686	AR	1	mg/l	U	001-002
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	001-002
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	001-002
Suspended Solids (Total)	T2	AR	10	mg/l	N	001-002
Total Organic Carbon	T21	AR	1	mg/l	U	001-002
Electrical Conductivity	T7	AR	10	µS/cm	N	001-002
Alkalinity expressed as CaCO3	T22	AR	10	mg/l	N	001-002
Total Phenols	T16	AR	0.5	µg/l	U	001-002
Cyanide(Total)	T220	AR	10	µg/l	WU	001-002
Cyanide(free)	T220	AR	10	µg/l	WN	001-002
Acenaphthene	T149	AR	0.01	µg/l	U	001-002
Acenaphthylene	T149	AR	0.01	µg/l	U	001-002
Anthracene	T149	AR	0.01	µg/l	U	001-002
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	001-002
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	001-002
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	001-002
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	001-002
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	001-002
Chrysene	T149	AR	0.01	µg/l	U	001-002
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	001-002
Fluoranthene	T149	AR	0.01	µg/l	U	001-002
Fluorene	T149	AR	0.01	µg/l	U	001-002
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	001-002
Naphthalene	T149	AR	0.01	µg/l	U	001-002
Phenanthrene	T149	AR	0.01	µg/l	U	001-002
Pyrene	T149	AR	0.01	µg/l	U	001-002
PAH(total)	T149	AR	0.01	µg/l	U	001-002
TPH (C8-C10) DW	T81	AR	10	µg/l	U	001-002
TPH (C10-C12) DW	T81	AR	10	µg/l	U	001-002
TPH (C12-C16) DW	T81	AR	10	µg/l	U	001-002
TPH (C16-C21) DW	T81	AR	10	µg/l	U	001-002
TPH (C21-C35) DW	T81	AR	10	µg/l	U	001-002
TPH (C35-C40)	T81	AR	10	µg/l	N	001-002
TPH (C8 - C40)	T85	AR	10	µg/l	N	001-002

Scientific Analysis Laboratories is a limited company registered in England and Wales (No 2514788) whose address is at Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
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M16 9FE
Tel : 0161 874 2400
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Report Number: Supplement to 363949-2

Date of Report: 05-Dec-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Zoe Miller

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle Street - 61W
Date Job Received at SAL: 29-Nov-2013
Date Analysis Started: 02-Dec-2013
Date Analysis Completed: 04-Dec-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Annie Hennis
Project Manager

[redacted]

SAL Reference: 363949
Project Site: A63 Castle Street - 61W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

					SAL Reference	363949 001	363949 002
					Customer Sample Reference	BH24	BH29
					Date Sampled	28-NOV-2013	28-NOV-2013
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
pH	T7	AR				**7.1**	**7.1**
As (Dissolved)	T281	AR	0.2	µg/l		**78**	**76**
Boron	T6	AR	10	µg/l		**2000**	**2000**
Cd (Dissolved)	T281	AR	0.02	µg/l		**0.03**	**0.04**
Cr (Dissolved)	T281	AR	1	µg/l		**10**	**13**
Chromium (trivalent)	T85	AR	3	µg/l		**10**	**13**
Chromium VI	T686	AR	3	µg/l		<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l		**120**	**250**
Pb (Dissolved)	T281	AR	0.3	µg/l		<0.3	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l		<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l		**32**	**29**
Se (Dissolved)	T281	AR	0.5	µg/l		<0.5	<0.5
Zn (Dissolved)	T281	AR	2	µg/l		**7**	**9**
Calcium	T6	AR	100	µg/l		**240000**	**240000**
Magnesium	T6	AR	100	µg/l		**520000**	**510000**
Potassium	T6	AR	100	µg/l		**210000**	**200000**
Sodium	T6	AR	100	µg/l		**3800000**	**3400000**
Fe (Dissolved)	T373	AR	10	µg/l		**150**	**150**
Fe (Total)	T303	AR	10	µg/l		**12000**	**11000**
Mn (Dissolved)	T373	AR	10	µg/l		**470**	**500**
Mn (Total)	T303	AR	10	µg/l		**500**	**560**
Nitrate	T686	AR	0.5	mg/l		<0.5	<0.5
Nitrite	T686	AR	0.1	mg/l		<0.1	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l		<0.1	<0.1
Sulphate	T686	AR	0.5	mg/l		**1200**	**1100**
Sulphide	T4	AR	0.05	mg/l		<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l		**480**	**450**
Chloride	T686	AR	1	mg/l		**9800**	**8800**
Ammoniacal nitrogen	T179	AR	0.015	mg/l		**1.5**	**1.5**
Ammonia expressed as NH4	T179	AR	0.019	mg/l		**2.0**	**1.9**
Suspended Solids (Total)	T2	AR	10	mg/l		**56**	**130**
Total Organic Carbon	T21	AR	1	mg/l		**3**	**3**
Electrical Conductivity	T7	AR	10	µS/cm		**26000**	**25000**
Alkalinity expressed as CaCO3	T22	AR	10	mg/l		**180**	**220**
Total Phenols	T16	AR	0.5	µg/l		<0.5	<0.5
Cyanide(Total)	T220	AR	10	µg/l		**17**	**48**
Cyanide(free)	T220	AR	10	µg/l		**18**	**25**
Acenaphthene	T149	AR	0.01	µg/l		<0.01	**0.02**
Acenaphthylene	T149	AR	0.01	µg/l		<0.01	<0.01
Anthracene	T149	AR	0.01	µg/l		<0.01	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l		<0.01	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l		<0.01	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l		<0.01	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l		<0.01	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l		<0.01	<0.01
Chrysene	T149	AR	0.01	µg/l		<0.01	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l		<0.01	<0.01
Fluoranthene	T149	AR	0.01	µg/l		<0.01	**0.02**
Fluorene	T149	AR	0.01	µg/l		<0.01	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l		<0.01	<0.01
Naphthalene	T149	AR	0.01	µg/l		**0.02**	<0.01
Phenanthrene	T149	AR	0.01	µg/l		<0.01	**0.02**
Pyrene	T149	AR	0.01	µg/l		<0.01	**0.01**
PAH(total)	T149	AR	0.01	µg/l		**0.02**	**0.07**
TPH (C8-C10) DW	T81	AR	10	µg/l		<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l		<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l		<10	<10

SAL Reference:	363949
Project Site:	A63 Castle Street - 61W
Customer Reference:	112630

Water Analysed as Water

Grontmij A63 Hull Standard Suite

SAL Reference	**363949 001**	**363949 002**
Customer Sample Reference	**BH24**	**BH29**
Date Sampled	**28-NOV-2013**	**28-NOV-2013**

Determinand	Method	Test Sample	LOD	Units		
TPH (C16-C21) DW	T81	AR	10	µg/l	<10	<10
TPH (C21-C35) DW	T81	AR	10	µg/l	<10	<10
TPH (C35-C40)	T81	AR	10	µg/l	<10	<10
TPH (C8 - C40)	T85	AR	10	µg/l	<10	<10

Index to symbols used in Supplement to 363949-2

Value	Description
AR	As Received
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Supplemental report issued to amend the sample references

Method Index

Value	Description
T7	Probe
T149	GC/MS (SIR)
T22	Titration
T65	ICP/OES (Preconc.)
T81	GC/FID (LV)
T686	Discrete Analyser
T2	Grav
T220	Colorimetry (SD)
T21	OX/IR
T179	Colorimetry (XION 500)
T373	ICP/OES (Filtered)
T85	Calc
T16	GC/MS
T303	ICP-OES (Total)
T4	Colorimetry
T6	ICP/OES
T281	ICP/MS (Filtered)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
pH	T7	AR			U	001-002
As (Dissolved)	T281	AR	0.2	µg/l	U	001-002
Boron	T6	AR	10	µg/l	N	001-002
Cd (Dissolved)	T281	AR	0.02	µg/l	U	001-002
Cr (Dissolved)	T281	AR	1	µg/l	U	001-002
Chromium (trivalent)	T85	AR	3	µg/l	N	001-002
Chromium VI	T686	AR	3	µg/l	U	001-002
Cu (Dissolved)	T281	AR	0.5	µg/l	U	001-002
Pb (Dissolved)	T281	AR	0.3	µg/l	U	001-002
Hg (Dissolved)	T281	AR	0.05	µg/l	U	001-002
Ni (Dissolved)	T281	AR	1	µg/l	U	001-002
Se (Dissolved)	T281	AR	0.5	µg/l	U	001-002
Zn (Dissolved)	T281	AR	2	µg/l	U	001-002
Calcium	T6	AR	100	µg/l	N	001-002

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Magnesium	T6	AR	100	µg/l	N	001-002
Potassium	T6	AR	100	µg/l	N	001-002
Sodium	T6	AR	100	µg/l	N	001-002
Fe (Dissolved)	T373	AR	10	µg/l	U	001-002
Fe (Total)	T303	AR	10	µg/l	U	001-002
Mn (Dissolved)	T373	AR	10	µg/l	U	001-002
Mn (Total)	T303	AR	10	µg/l	U	001-002
Nitrate	T686	AR	0.5	mg/l	U	001-002
Nitrite	T686	AR	0.1	mg/l	U	001-002
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	001-002
Sulphate	T686	AR	0.5	mg/l	U	001-002
Sulphide	T4	AR	0.05	mg/l	N	001-002
Sulphur (total)	T65	AR	0.01	mg/l	N	001-002
Chloride	T686	AR	1	mg/l	U	001-002
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	001-002
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	001-002
Suspended Solids (Total)	T2	AR	10	mg/l	N	001-002
Total Organic Carbon	T21	AR	1	mg/l	U	001-002
Electrical Conductivity	T7	AR	10	µS/cm	N	001-002
Alkalinity expressed as CaCO3	T22	AR	10	mg/l	N	001-002
Total Phenols	T16	AR	0.5	µg/l	WU	001-002
Cyanide(Total)	T220	AR	10	µg/l	WU	001-002
Cyanide(free)	T220	AR	10	µg/l	N	001-002
Acenaphthene	T149	AR	0.01	µg/l	U	001-002
Acenaphthylene	T149	AR	0.01	µg/l	U	001-002
Anthracene	T149	AR	0.01	µg/l	U	001-002
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	001-002
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	001-002
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	001-002
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	001-002
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	001-002
Chrysene	T149	AR	0.01	µg/l	U	001-002
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	001-002
Fluoranthene	T149	AR	0.01	µg/l	U	001-002
Fluorene	T149	AR	0.01	µg/l	U	001-002
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	001-002
Naphthalene	T149	AR	0.01	µg/l	U	001-002
Phenanthrene	T149	AR	0.01	µg/l	U	001-002
Pyrene	T149	AR	0.01	µg/l	U	001-002
PAH(total)	T149	AR	0.01	µg/l	U	001-002
TPH (C8-C10) DW	T81	AR	10	µg/l	U	001-002
TPH (C10-C12) DW	T81	AR	10	µg/l	U	001-002
TPH (C12-C16) DW	T81	AR	10	µg/l	U	001-002
TPH (C16-C21) DW	T81	AR	10	µg/l	U	001-002
TPH (C21-C35) DW	T81	AR	10	µg/l	U	001-002
TPH (C35-C40)	T81	AR	10	µg/l	N	001-002
TPH (C8 - C40)	T85	AR	10	µg/l	N	001-002

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Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 365243-1

Date of Report: 18-Dec-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Zoe Miller

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 62W
Date Job Received at SAL: 06-Dec-2013
Date Analysis Started: 09-Dec-2013
Date Analysis Completed: 18-Dec-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

SAL Reference: 365243
Project Site: A63 Castle St - 62W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

					SAL Reference	365243 001	365243 002
					Customer Sample Reference	SW2	SW3
					Date Sampled	04-DEC-2013	04-DEC-2013
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
pH	T7	AR				**7.8**	**7.9**
As (Dissolved)	T281	AR	0.2	µg/l		**220**	**260**
Boron	T6	AR	10	µg/l		**1300**	**1200**
Cd (Dissolved)	T281	AR	0.02	µg/l		**0.11**	**0.12**
Cr (Dissolved)	T281	AR	1	µg/l		**18**	**17**
Chromium (trivalent)	T85	AR	3	µg/l		**18**	**17**
Chromium VI	T686	AR	3	µg/l		<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l		**27**	**29**
Pb (Dissolved)	T281	AR	0.3	µg/l		**2.9**	**2.5**
Hg (Dissolved)	T281	AR	0.05	µg/l		<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l		**10**	**10**
Se (Dissolved)	T281	AR	0.5	µg/l		**140**	**130**
Zn (Dissolved)	T281	AR	2	µg/l		**33**	**30**
Calcium	T6	AR	100	µg/l		**140000**	**140000**
Magnesium	T6	AR	100	µg/l		**360000**	**350000**
Potassium	T6	AR	100	µg/l		**140000**	**140000**
Sodium	T6	AR	100	µg/l		**2500000**	**2400000**
Nitrate	T686	AR	0.5	mg/l		**5.8**	**5.8**
Nitrite	T686	AR	0.1	mg/l		**0.1**	**0.1**
Total Oxidised Nitrogen	T686	AR	0.1	mg/l		**1.3**	**1.3**
Sulphate	T686	AR	0.5	mg/l		**850**	**860**
Sulphide	T4	AR	0.05	mg/l		<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l		**300**	**290**
Chloride	T686	AR	1	mg/l		**6000**	**6000**
Ammoniacal nitrogen	T179	AR	0.015	mg/l		**0.50**	**0.45**
Ammonia expressed as NH4	T179	AR	0.019	mg/l		**0.65**	**0.57**
Suspended Solids (Total)	T2	AR	10	mg/l		<10	<10
Electrical Conductivity	T7	AR	10	µS/cm		**22000**	**20000**
Total Phenols	T16	AR	0.5	µg/l		<0.5	<0.5
Cyanide(Total)	T220	AR	10	µg/l		<10	<10
Cyanide(free)	T220	AR	10	µg/l		<10	<10
Acenaphthene	T149	AR	0.01	µg/l		<0.01	<0.01
Acenaphthylene	T149	AR	0.01	µg/l		**0.02**	<0.01
Anthracene	T149	AR	0.01	µg/l		<0.01	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l		<0.01	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l		<0.01	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l		<0.01	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l		<0.01	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l		<0.01	<0.01
Chrysene	T149	AR	0.01	µg/l		<0.01	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l		<0.01	<0.01
Fluoranthene	T149	AR	0.01	µg/l		**0.01**	<0.01
Fluorene	T149	AR	0.01	µg/l		<0.01	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l		<0.01	<0.01
Naphthalene	T149	AR	0.01	µg/l		**0.30**	**0.27**
Phenanthrene	T149	AR	0.01	µg/l		**0.03**	<0.01
Pyrene	T149	AR	0.01	µg/l		<0.01	<0.01
PAH(total)	T149	AR	0.01	µg/l		**0.36**	**0.27**
TPH (C8-C10) DW	T81	AR	10	µg/l		<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l		<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l		<10	<10
TPH (C16-C21) DW	T81	AR	10	µg/l		<10	<10
TPH (C21-C35) DW	T81	AR	10	µg/l		<10	<10
TPH (C35-C40)	T81	AR	10	µg/l		<10	<10
TPH (C8 - C40)	T85	AR	10	µg/l		<10	<10

Index to symbols used in 365243-1

Value	Description
AR	As Received
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T2	Grav
T4	Colorimetry
T149	GC/MS (SIR)
T81	GC/FID (LV)
T16	GC/MS
T281	ICP/MS (Filtered)
T85	Calc
T686	Discrete Analyser
T7	Probe
T179	Colorimetry (XION 500)
T220	Colorimetry (SD)
T6	ICP/OES
T65	ICP/OES (Preconc.)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
pH	T7	AR			U	001-002
As (Dissolved)	T281	AR	0.2	µg/l	U	001-002
Boron	T6	AR	10	µg/l	N	001-002
Cd (Dissolved)	T281	AR	0.02	µg/l	U	001-002
Cr (Dissolved)	T281	AR	1	µg/l	U	001-002
Chromium (trivalent)	T85	AR	3	µg/l	N	001-002
Chromium VI	T686	AR	3	µg/l	U	001-002
Cu (Dissolved)	T281	AR	0.5	µg/l	U	001-002
Pb (Dissolved)	T281	AR	0.3	µg/l	U	001-002
Hg (Dissolved)	T281	AR	0.05	µg/l	U	001-002
Ni (Dissolved)	T281	AR	1	µg/l	U	001-002
Se (Dissolved)	T281	AR	0.5	µg/l	U	001-002
Zn (Dissolved)	T281	AR	2	µg/l	U	001-002
Calcium	T6	AR	100	µg/l	N	001-002
Magnesium	T6	AR	100	µg/l	N	001-002
Potassium	T6	AR	100	µg/l	N	001-002
Sodium	T6	AR	100	µg/l	N	001-002
Nitrate	T686	AR	0.5	mg/l	U	001-002
Nitrite	T686	AR	0.1	mg/l	U	001-002
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	001-002
Sulphate	T686	AR	0.5	mg/l	U	001-002
Sulphide	T4	AR	0.05	mg/l	N	001-002
Sulphur (total)	T65	AR	0.01	mg/l	N	001-002
Chloride	T686	AR	1	mg/l	U	001-002
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	001-002
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	001-002
Suspended Solids (Total)	T2	AR	10	mg/l	N	001-002
Electrical Conductivity	T7	AR	10	µS/cm	N	001-002
Total Phenols	T16	AR	0.5	µg/l	U	001-002
Cyanide(Total)	T220	AR	10	µg/l	WU	001-002
Cyanide(free)	T220	AR	10	µg/l	WN	001-002
Acenaphthene	T149	AR	0.01	µg/l	U	001-002
Acenaphthylene	T149	AR	0.01	µg/l	U	001-002
Anthracene	T149	AR	0.01	µg/l	U	001-002
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	001-002
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	001-002
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	001-002
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	001-002
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	001-002
Chrysene	T149	AR	0.01	µg/l	U	001-002

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	001-002
Fluoranthene	T149	AR	0.01	µg/l	U	001-002
Fluorene	T149	AR	0.01	µg/l	U	001-002
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	001-002
Naphthalene	T149	AR	0.01	µg/l	U	001-002
Phenanthrene	T149	AR	0.01	µg/l	U	001-002
Pyrene	T149	AR	0.01	µg/l	U	001-002
PAH(total)	T149	AR	0.01	µg/l	U	001-002
TPH (C8-C10) DW	T81	AR	10	µg/l	U	001-002
TPH (C10-C12) DW	T81	AR	10	µg/l	U	001-002
TPH (C12-C16) DW	T81	AR	10	µg/l	U	001-002
TPH (C16-C21) DW	T81	AR	10	µg/l	U	001-002
TPH (C21-C35) DW	T81	AR	10	µg/l	U	001-002
TPH (C35-C40)	T81	AR	10	µg/l	N	001-002
TPH (C8 - C40)	T85	AR	10	µg/l	N	001-002

Scientific Analysis Laboratories is a limited company registered in England and Wales (No 2514788) whose address is at Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
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Tel : 0161 874 2400
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Report Number: 365963-1

Date of Report: 20-Dec-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Zoe Miller

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 63W
Date Job Received at SAL: 09-Dec-2013
Date Analysis Started: 12-Dec-2013
Date Analysis Completed: 20-Dec-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

Report checked and authorised by :
Mr Ross Walker
Customer Services Manager (Land)

Issued by :
Mr Ross Walker
Customer Services Manager (Land)

[redacted]

SAL Reference: 365963
Project Site: A63 Castle St - 63W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**365963 002**	**365963 003**	**365963 004**
				Customer Sample Reference	**LDBH_01**	**SW2**	**SW3**
				Date Sampled	**09-DEC-2013**	**09-DEC-2013**	**09-DEC-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
pH	T7	AR			**7.1**	**7.8**	**7.8**
As (Dissolved)	T281	AR	0.2	µg/l	**320**	**210**	**200**
Boron	T6	AR	10	µg/l	**2100**	**1400**	**1400**
Cd (Dissolved)	T281	AR	0.02	µg/l	**0.06**	**0.11**	**0.10**
Cr (Dissolved)	T281	AR	1	µg/l	**23**	**16**	**16**
Chromium (trivalent)	T85	AR	3	µg/l	**23**	**16**	**16**
Chromium VI	T686	AR	3	µg/l	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**74**	**35**	**38**
Pb (Dissolved)	T281	AR	0.3	µg/l	<0.3	<0.3	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l	**47**	**14**	**14**
Se (Dissolved)	T281	AR	0.5	µg/l	**210**	**150**	**150**
Zn (Dissolved)	T281	AR	2	µg/l	**78**	**39**	**45**
Calcium	T6	AR	100	µg/l	**210000**	**160000**	**160000**
Magnesium	T6	AR	100	µg/l	**590000**	**380000**	**390000**
Potassium	T6	AR	100	µg/l	**220000**	**140000**	**150000**
Sodium	T6	AR	100	µg/l	**3300000**	**2200000**	**2200000**
Fe (Dissolved)	T373	AR	10	µg/l	<10	-	-
Fe (Total)	T303	AR	10	µg/l	**6600**	-	-
Mn (Dissolved)	T373	AR	10	µg/l	**400**	-	-
Mn (Total)	T303	AR	10	µg/l	**410**	-	-
Nitrate	T686	AR	0.5	mg/l	<0.5	**5.1**	**5.4**
Nitrite	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	<0.1	**1.2**	**1.2**
Sulphate	T686	AR	0.5	mg/l	**1200**	**890**	**880**
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**480**	**340**	**340**
Chloride	T686	AR	1	mg/l	**10000**	**6500**	**6600**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**1.9**	**0.31**	**0.31**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**2.4**	**0.40**	**0.40**
Suspended Solids (Total)	T2	AR	10	mg/l	**62**	<10	<10
Total Organic Carbon	T21	AR	1	mg/l	**17**	-	-
Electrical Conductivity	T7	AR	10	µS/cm	**24000**	**17000**	**17000**
Alkalinity expressed as CaCO3	T22	AR	10	mg/l	**160**	-	-
Total Phenols	T16	AR	0.5	µg/l	<0.5	<0.5	<0.5
Cyanide(Total)	T220	AR	0.01	mg/l	**0.02**	**0.01**	<0.01
Cyanide(free)	T220	AR	0.01	mg/l	<0.01	<0.01	<0.01
Acenaphthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Acenaphthylene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01	**0.02**	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Chrysene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Fluoranthene	T149	AR	0.01	µg/l	<0.01	**0.02**	**0.02**
Fluorene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Naphthalene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Phenanthrene	T149	AR	0.01	µg/l	<0.01	**0.02**	**0.01**
Pyrene	T149	AR	0.01	µg/l	<0.01	**0.02**	**0.02**
PAH(total)	T149	AR	0.01	µg/l	<0.01	**0.08**	**0.05**
TPH (C8-C10) DW	T81	AR	10	µg/l	<10	<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l	<10	<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l	<10	<10	<10

SAL Reference: 365963
Project Site: A63 Castle St - 63W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

SAL Reference	**365963 002**	**365963 003**	**365963 004**
Customer Sample Reference	**LDBH_01**	**SW2**	**SW3**
Date Sampled	**09-DEC-2013**	**09-DEC-2013**	**09-DEC-2013**

Determinand	Method	Test Sample	LOD	Units			
TPH (C16-C21) DW	T81	AR	10	µg/l	<10	<10	<10
TPH (C21-C35) DW	T81	AR	10	µg/l	<10	<10	<10
TPH (C35-C40)	T81	AR	10	µg/l	<10	<10	<10
TPH (C8 - C40)	T85	AR	10	µg/l	<10	<10	<10

Index to symbols used in 365963-1

Value	Description
AR	As Received
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T6	ICP/OES
T2	Grav
T21	OX/IR
T220	Colorimetry (SD)
T7	Probe
T149	GC/MS (SIR)
T179	Colorimetry (XION 500)
T65	ICP/OES (Preconc.)
T303	ICP-OES (Total)
T85	Calc
T4	Colorimetry
T373	ICP/OES (Filtered)
T16	GC/MS
T281	ICP/MS (Filtered)
T22	Titration
T686	Discrete Analyser
T81	GC/FID (LV)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
pH	T7	AR			U	002-004
As (Dissolved)	T281	AR	0.2	µg/l	U	002-004
Boron	T6	AR	10	µg/l	N	002-004
Cd (Dissolved)	T281	AR	0.02	µg/l	U	002-004
Cr (Dissolved)	T281	AR	1	µg/l	U	002-004
Chromium (trivalent)	T85	AR	3	µg/l	N	002-004
Chromium VI	T686	AR	3	µg/l	U	002-004
Cu (Dissolved)	T281	AR	0.5	µg/l	U	002-004
Pb (Dissolved)	T281	AR	0.3	µg/l	U	002-004
Hg (Dissolved)	T281	AR	0.05	µg/l	U	002-004
Ni (Dissolved)	T281	AR	1	µg/l	U	002-004
Se (Dissolved)	T281	AR	0.5	µg/l	U	002-004
Zn (Dissolved)	T281	AR	2	µg/l	U	002-004
Calcium	T6	AR	100	µg/l	N	002-004
Magnesium	T6	AR	100	µg/l	N	002-004
Potassium	T6	AR	100	µg/l	N	002-004
Sodium	T6	AR	100	µg/l	N	002-004
Fe (Dissolved)	T373	AR	10	µg/l	U	002
Fe (Total)	T303	AR	10	µg/l	U	002

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Mn (Dissolved)	T373	AR	10	µg/l	U	002
Mn (Total)	T303	AR	10	µg/l	U	002
Nitrate	T686	AR	0.5	mg/l	U	002-004
Nitrite	T686	AR	0.1	mg/l	U	002-004
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	002-004
Sulphate	T686	AR	0.5	mg/l	U	002-004
Sulphide	T4	AR	0.05	mg/l	N	002-004
Sulphur (total)	T65	AR	0.01	mg/l	N	002-004
Chloride	T686	AR	1	mg/l	U	002-004
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	002-004
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	002-004
Suspended Solids (Total)	T2	AR	10	mg/l	N	002-004
Total Organic Carbon	T21	AR	1	mg/l	U	002
Electrical Conductivity	T7	AR	10	µS/cm	N	002-004
Alkalinity expressed as CaCO3	T22	AR	10	mg/l	N	002
Total Phenols	T16	AR	0.5	µg/l	U	002-004
Cyanide(Total)	T220	AR	0.01	mg/l	WU	002-004
Cyanide(free)	T220	AR	0.01	mg/l	WN	002-004
Acenaphthene	T149	AR	0.01	µg/l	U	002-004
Acenaphthylene	T149	AR	0.01	µg/l	U	002-004
Anthracene	T149	AR	0.01	µg/l	U	002-004
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	002-004
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	002-004
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	002-004
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	002-004
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	002-004
Chrysene	T149	AR	0.01	µg/l	U	002-004
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	002-004
Fluoranthene	T149	AR	0.01	µg/l	U	002-004
Fluorene	T149	AR	0.01	µg/l	U	002-004
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	002-004
Naphthalene	T149	AR	0.01	µg/l	U	002-004
Phenanthrene	T149	AR	0.01	µg/l	U	002-004
Pyrene	T149	AR	0.01	µg/l	U	002-004
PAH(total)	T149	AR	0.01	µg/l	U	002-004
TPH (C8-C10) DW	T81	AR	10	µg/l	U	002-004
TPH (C10-C12) DW	T81	AR	10	µg/l	U	002-004
TPH (C12-C16) DW	T81	AR	10	µg/l	U	002-004
TPH (C16-C21) DW	T81	AR	10	µg/l	U	002-004
TPH (C21-C35) DW	T81	AR	10	µg/l	U	002-004
TPH (C35-C40)	T81	AR	10	µg/l	N	002-004
TPH (C8 - C40)	T85	AR	10	µg/l	N	002-004

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Tel : 0161 874 2400
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Report Number: 365970-1

Date of Report: 23-Dec-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Zoe Miller

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 64W
Date Job Received at SAL: 10-Dec-2013
Date Analysis Started: 11-Dec-2013
Date Analysis Completed: 23-Dec-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
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Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

Report checked and authorised by :
Mr Ross Walker
Customer Services Manager (Land)

Issued by :
Mr Ross Walker
Customer Services Manage (Land)

[redacted]

SAL Reference: 365970
Project Site: A63 Castle St - 64W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

SAL Reference	**365970 001**
Customer Sample Reference	**LDBH01**
Date Sampled	**10-DEC-2013**

Determinand	Method	Test Sample	LOD	Units	
pH	T7	AR			**7.2**
As (Dissolved)	T281	AR	0.2	µg/l	**96**
Boron	T6	AR	10	µg/l	**2000**
Cd (Dissolved)	T281	AR	0.02	µg/l	**0.03**
Cr (Dissolved)	T281	AR	1	µg/l	**11**
Chromium (trivalent)	T85	AR	3	µg/l	**11**
Chromium VI	T686	AR	3	µg/l	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**200**
Pb (Dissolved)	T281	AR	0.3	µg/l	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l	<0.05
Ni (Dissolved)	T281	AR	1	µg/l	**31**
Se (Dissolved)	T281	AR	0.5	µg/l	<0.5
Zn (Dissolved)	T281	AR	2	µg/l	**26**
Calcium	T6	AR	100	µg/l	**210000**
Magnesium	T6	AR	100	µg/l	**490000**
Potassium	T6	AR	100	µg/l	**200000**
Sodium	T6	AR	100	µg/l	**3400000**
Fe (Dissolved)	T373	AR	10	µg/l	<10
Fe (Total)	T303	AR	10	µg/l	**6100**
Mn (Dissolved)	T373	AR	10	µg/l	**380**
Mn (Total)	T303	AR	10	µg/l	**400**
Nitrate	T686	AR	0.5	mg/l	**0.9**
Nitrite	T686	AR	0.1	mg/l	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	**0.2**
Sulphate	T686	AR	0.5	mg/l	**180**
Sulphide	T4	AR	0.05	mg/l	**0.05**
Sulphur (total)	T65	AR	0.01	mg/l	**440**
Chloride	T686	AR	1	mg/l	**79**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**0.32**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**0.39**
Suspended Solids (Total)	T2	AR	10	mg/l	**100**
Total Organic Carbon	T21	AR	1	mg/l	**5**
Electrical Conductivity	T7	AR	10	µS/cm	**25000**
Alkalinity expressed as CaCO3	T22	AR	10	mg/l	**350**
Total Phenols	T16	AR	0.5	µg/l	**1.0**
Cyanide(Total)	T220	AR	10	µg/l	<10
Cyanide(free)	T220	AR	10	µg/l	<10
Acenaphthene	T149	AR	0.01	µg/l	<0.01
Acenaphthylene	T149	AR	0.01	µg/l	<0.01
Anthracene	T149	AR	0.01	µg/l	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	<0.01
Chrysene	T149	AR	0.01	µg/l	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	<0.01
Fluoranthene	T149	AR	0.01	µg/l	<0.01
Fluorene	T149	AR	0.01	µg/l	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	<0.01
Naphthalene	T149	AR	0.01	µg/l	**0.27**
Phenanthrene	T149	AR	0.01	µg/l	<0.01
Pyrene	T149	AR	0.01	µg/l	<0.01
PAH(total)	T149	AR	0.01	µg/l	**0.27**
TPH (C8-C10) DW	T81	AR	10	µg/l	<10
TPH (C10-C12) DW	T81	AR	10	µg/l	<10
TPH (C12-C16) DW	T81	AR	10	µg/l	<10

SAL Reference:	365970
Project Site:	A63 Castle St - 64W
Customer Reference:	112630

Water Analysed as Water

Grontmij A63 Hull Standard Suite

SAL Reference	**365970 001**
Customer Sample Reference	**LDBH01**
Date Sampled	**10-DEC-2013**

Determinand	Method	Test Sample	LOD	Units	
TPH (C16-C21) DW	T81	AR	10	µg/l	<10
TPH (C21-C35) DW	T81	AR	10	µg/l	<10
TPH (C35-C40)	T81	AR	10	µg/l	<10
TPH (C8 - C40)	T85	AR	10	µg/l	<10

Index to symbols used in 365970-1

Value	Description
AR	As Received
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T2	Grav
T22	Titration
T81	GC/FID (LV)
T179	Colorimetry (XION 500)
T220	Colorimetry (SD)
T149	GC/MS (SIR)
T686	Discrete Analyser
T85	Calc
T4	Colorimetry
T6	ICP/OES
T281	ICP/MS (Filtered)
T373	ICP/OES (Filtered)
T65	ICP/OES (Preconc.)
T7	Probe
T303	ICP-OES (Total)
T16	GC/MS
T21	OX/IR

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
pH	T7	AR			U	001
As (Dissolved)	T281	AR	0.2	µg/l	U	001
Boron	T6	AR	10	µg/l	N	001
Cd (Dissolved)	T281	AR	0.02	µg/l	U	001
Cr (Dissolved)	T281	AR	1	µg/l	U	001
Chromium (trivalent)	T85	AR	3	µg/l	N	001
Chromium VI	T686	AR	3	µg/l	U	001
Cu (Dissolved)	T281	AR	0.5	µg/l	U	001
Pb (Dissolved)	T281	AR	0.3	µg/l	U	001
Hg (Dissolved)	T281	AR	0.05	µg/l	U	001
Ni (Dissolved)	T281	AR	1	µg/l	U	001
Se (Dissolved)	T281	AR	0.5	µg/l	U	001
Zn (Dissolved)	T281	AR	2	µg/l	U	001
Calcium	T6	AR	100	µg/l	N	001
Magnesium	T6	AR	100	µg/l	N	001
Potassium	T6	AR	100	µg/l	N	001
Sodium	T6	AR	100	µg/l	N	001
Fe (Dissolved)	T373	AR	10	µg/l	U	001
Fe (Total)	T303	AR	10	µg/l	U	001

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Mn (Dissolved)	T373	AR	10	µg/l	U	001
Mn (Total)	T303	AR	10	µg/l	U	001
Nitrate	T686	AR	0.5	mg/l	U	001
Nitrite	T686	AR	0.1	mg/l	U	001
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	001
Sulphate	T686	AR	0.5	mg/l	U	001
Sulphide	T4	AR	0.05	mg/l	N	001
Sulphur (total)	T65	AR	0.01	mg/l	N	001
Chloride	T686	AR	1	mg/l	U	001
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	001
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	001
Suspended Solids (Total)	T2	AR	10	mg/l	N	001
Total Organic Carbon	T21	AR	1	mg/l	U	001
Electrical Conductivity	T7	AR	10	µS/cm	N	001
Alkalinity expressed as CaCO3	T22	AR	10	mg/l	N	001
Total Phenols	T16	AR	0.5	µg/l	U	001
Cyanide(Total)	T220	AR	10	µg/l	WU	001
Cyanide(free)	T220	AR	10	µg/l	WN	001
Acenaphthene	T149	AR	0.01	µg/l	U	001
Acenaphthylene	T149	AR	0.01	µg/l	U	001
Anthracene	T149	AR	0.01	µg/l	U	001
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	001
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	001
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	001
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	001
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	001
Chrysene	T149	AR	0.01	µg/l	U	001
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	001
Fluoranthene	T149	AR	0.01	µg/l	U	001
Fluorene	T149	AR	0.01	µg/l	U	001
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	001
Naphthalene	T149	AR	0.01	µg/l	U	001
Phenanthrene	T149	AR	0.01	µg/l	U	001
Pyrene	T149	AR	0.01	µg/l	U	001
PAH(total)	T149	AR	0.01	µg/l	U	001
TPH (C8-C10) DW	T81	AR	10	µg/l	U	001
TPH (C10-C12) DW	T81	AR	10	µg/l	U	001
TPH (C12-C16) DW	T81	AR	10	µg/l	U	001
TPH (C16-C21) DW	T81	AR	10	µg/l	U	001
TPH (C21-C35) DW	T81	AR	10	µg/l	U	001
TPH (C35-C40)	T81	AR	10	µg/l	N	001
TPH (C8 - C40)	T85	AR	10	µg/l	N	001

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Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 366180-1

Date of Report: 23-Dec-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Zoe Miller

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 65W
Date Job Received at SAL: 11-Dec-2013
Date Analysis Started: 12-Dec-2013
Date Analysis Completed: 23-Dec-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
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Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

SAL Reference: 366180
Project Site: A63 Castle St - 65W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

					SAL Reference	366180 001	366180 002	366180 003
					Customer Sample Reference	LDBH01 11:00	SW2 11:15	SW3 11:40
					Date Sampled	11-DEC-2013	11-DEC-2013	11-DEC-2013
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
pH	T7	AR				**7.0**	**7.7**	**7.7**
As (Dissolved)	T281	AR	0.2	µg/l		**310**	**220**	**210**
Boron	T6	AR	10	µg/l		**2100**	**1500**	**1500**
Cd (Dissolved)	T281	AR	0.02	µg/l		**0.04**	**0.12**	**0.11**
Cr (Dissolved)	T281	AR	1	µg/l		**23**	**18**	**17**
Chromium (trivalent)	T85	AR	3	µg/l		**23**	**18**	**17**
Chromium VI	T686	AR	3	µg/l		<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l		**49**	**42**	**42**
Pb (Dissolved)	T281	AR	0.3	µg/l		<0.3	**0.3**	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l		<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l		**44**	**16**	**16**
Se (Dissolved)	T281	AR	0.5	µg/l		**200**	**170**	**160**
Zn (Dissolved)	T281	AR	2	µg/l		**57**	**47**	**49**
Calcium	T6	AR	100	µg/l		**210000**	**160000**	**160000**
Magnesium	T6	AR	100	µg/l		**580000**	**390000**	**400000**
Potassium	T6	AR	100	µg/l		**230000**	**150000**	**150000**
Sodium	T6	AR	100	µg/l		**2200000**	**2600000**	**2100000**
Fe (Dissolved)	T373	AR	10	µg/l		**200**	-	-
Fe (Total)	T303	AR	10	µg/l		**6300**	-	-
Mn (Dissolved)	T373	AR	10	µg/l		**420**	-	-
Mn (Total)	T303	AR	10	µg/l		**430**	-	-
Nitrate	T686	AR	0.5	mg/l		<0.5	**5.5**	**5.5**
Nitrite	T686	AR	0.1	mg/l		<0.1	<0.1	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l		<0.1	**1.2**	**1.2**
Sulphate	T686	AR	0.5	mg/l		**1300**	**880**	**720**
Sulphide	T4	AR	0.05	mg/l		<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l		**490**	**350**	**350**
Chloride	T686	AR	1	mg/l		**9300**	**6300**	**5300**
Ammoniacal nitrogen	T179	AR	0.015	mg/l		**1.7**	**0.63**	**0.48**
Ammonia expressed as NH4	T179	AR	0.019	mg/l		**2.2**	**0.81**	**0.61**
Suspended Solids (Total)	T2	AR	10	mg/l		**72**	<10	<10
Total Organic Carbon	T21	AR	1	mg/l		**6**	-	-
Electrical Conductivity	T7	AR	10	µS/cm		**24000**	**18000**	**18000**
Alkalinity expressed as CaCO3	T22	AR	10	mg/l		**170**	-	-
Total Phenols	T16	AR	0.5	µg/l		<0.5	<0.5	<0.5
Cyanide(Total)	T220	AR	10	µg/l		<10	<10	<10
Cyanide(free)	T220	AR	10	µg/l		<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01
Acenaphthylene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01
Anthracene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l		<0.01	<0.01	**0.01**
Benzo(a)Pyrene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01
Chrysene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01
Fluoranthene	T149	AR	0.01	µg/l		<0.01	<0.01	**0.02**
Fluorene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01
Naphthalene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01
Phenanthrene	T149	AR	0.01	µg/l		<0.01	<0.01	<0.01
Pyrene	T149	AR	0.01	µg/l		<0.01	<0.01	**0.02**
PAH(total)	T149	AR	0.01	µg/l		<0.01	<0.01	**0.05**
TPH (C8-C10) DW	T81	AR	10	µg/l		<10	<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l		<10	<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l		<10	<10	<10

SAL Reference: 366180
Project Site: A63 Castle St - 65W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

SAL Reference	**366180 001**	**366180 002**	**366180 003**
Customer Sample Reference	**LDBH01 11:00**	**SW2 11:15**	**SW3 11:40**
Date Sampled	**11-DEC-2013**	**11-DEC-2013**	**11-DEC-2013**

Determinand	Method	Test Sample	LOD	Units			
TPH (C16-C21) DW	T81	AR	10	µg/l	<10	<10	<10
TPH (C21-C35) DW	T81	AR	10	µg/l	<10	<10	<10
TPH (C35-C40)	T81	AR	10	µg/l	<10	<10	<10
TPH (C8 - C40)	T85	AR	10	µg/l	<10	<10	<10

Index to symbols used in 366180-1

Value	Description
AR	As Received
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T65	ICP/OES (Preconc.)
T4	Colorimetry
T81	GC/FID (LV)
T22	Titration
T303	ICP-OES (Total)
T6	ICP/OES
T85	Calc
T373	ICP/OES (Filtered)
T7	Probe
T149	GC/MS (SIR)
T220	Colorimetry (SD)
T2	Grav
T179	Colorimetry (XION 500)
T16	GC/MS
T686	Discrete Analyser
T21	OX/IR
T281	ICP/MS (Filtered)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
pH	T7	AR			U	001-003
As (Dissolved)	T281	AR	0.2	µg/l	U	001-003
Boron	T6	AR	10	µg/l	N	001-003
Cd (Dissolved)	T281	AR	0.02	µg/l	U	001-003
Cr (Dissolved)	T281	AR	1	µg/l	U	001-003
Chromium (trivalent)	T85	AR	3	µg/l	N	001-003
Chromium VI	T686	AR	3	µg/l	U	001-003
Cu (Dissolved)	T281	AR	0.5	µg/l	U	001-003
Pb (Dissolved)	T281	AR	0.3	µg/l	U	001-003
Hg (Dissolved)	T281	AR	0.05	µg/l	U	001-003
Ni (Dissolved)	T281	AR	1	µg/l	U	001-003
Se (Dissolved)	T281	AR	0.5	µg/l	U	001-003
Zn (Dissolved)	T281	AR	2	µg/l	U	001-003
Calcium	T6	AR	100	µg/l	N	001-003
Magnesium	T6	AR	100	µg/l	N	001-003
Potassium	T6	AR	100	µg/l	N	001-003
Sodium	T6	AR	100	µg/l	N	001-003
Fe (Dissolved)	T373	AR	10	µg/l	U	001
Fe (Total)	T303	AR	10	µg/l	U	001

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Mn (Dissolved)	T373	AR	10	µg/l	U	001
Mn (Total)	T303	AR	10	µg/l	U	001
Nitrate	T686	AR	0.5	mg/l	U	001-003
Nitrite	T686	AR	0.1	mg/l	U	001-003
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	001-003
Sulphate	T686	AR	0.5	mg/l	U	001-003
Sulphide	T4	AR	0.05	mg/l	N	001-003
Sulphur (total)	T65	AR	0.01	mg/l	N	001-003
Chloride	T686	AR	1	mg/l	U	001-003
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	001-003
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	001-003
Suspended Solids (Total)	T2	AR	10	mg/l	N	001-003
Total Organic Carbon	T21	AR	1	mg/l	U	001
Electrical Conductivity	T7	AR	10	µS/cm	N	001-003
Alkalinity expressed as CaCO3	T22	AR	10	mg/l	N	001
Total Phenols	T16	AR	0.5	µg/l	U	001-003
Cyanide(Total)	T220	AR	10	µg/l	WU	001-003
Cyanide(free)	T220	AR	10	µg/l	WN	001-003
Acenaphthene	T149	AR	0.01	µg/l	U	001-003
Acenaphthylene	T149	AR	0.01	µg/l	U	001-003
Anthracene	T149	AR	0.01	µg/l	U	001-003
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	001-003
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	001-003
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	001-003
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	001-003
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	001-003
Chrysene	T149	AR	0.01	µg/l	U	001-003
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	001-003
Fluoranthene	T149	AR	0.01	µg/l	U	001-003
Fluorene	T149	AR	0.01	µg/l	U	001-003
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	001-003
Naphthalene	T149	AR	0.01	µg/l	U	001-003
Phenanthrene	T149	AR	0.01	µg/l	U	001-003
Pyrene	T149	AR	0.01	µg/l	U	001-003
PAH(total)	T149	AR	0.01	µg/l	U	001-003
TPH (C8-C10) DW	T81	AR	10	µg/l	U	001-003
TPH (C10-C12) DW	T81	AR	10	µg/l	U	001-003
TPH (C12-C16) DW	T81	AR	10	µg/l	U	001-003
TPH (C16-C21) DW	T81	AR	10	µg/l	U	001-003
TPH (C21-C35) DW	T81	AR	10	µg/l	U	001-003
TPH (C35-C40)	T81	AR	10	µg/l	N	001-003
TPH (C8 - C40)	T85	AR	10	µg/l	N	001-003

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Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 366484-1

Date of Report: 19-Dec-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Zoe Miller

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 66W
Date Job Received at SAL: 12-Dec-2013
Date Analysis Started: 13-Dec-2013
Date Analysis Completed: 18-Dec-2013

The results reported relate to samples received in the laboratory
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All results have been reviewed in accordance with QP22

UKAS TESTING
1549

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

[redacted]

SAL Reference: 366484
Project Site: A63 Castle St - 66W
Customer Reference: 112630

Water Analysed as Water
Miscellaneous

SAL Reference	**366484 001**
Customer Sample Reference	**LDBH01**
Date Sampled	**06-DEC-2013**

Determinand	Method	Test Sample	LOD	Units	
pH	T7	AR			**7.0**
Calcium	T6	AR	100	µg/l	**270000**
Magnesium	T6	AR	100	µg/l	**610000**
Potassium	T6	AR	100	µg/l	**260000**
Sodium	T6	AR	100	µg/l	**4100000**
Nitrate	T686	AR	0.5	mg/l	<0.5
Nitrite	T686	AR	0.1	mg/l	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	<0.1
Chloride	T686	AR	1	mg/l	**10000**
Suspended Solids (Total)	T2	AR	10	mg/l	**86**
Electrical Conductivity	T7	AR	10	µS/cm	**24000**
Alkalinity expressed as CaCO3	T22	AR	10	mg/l	**170**

Index to symbols used in 366484-1

Value	Description
AR	As Received
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T686	Discrete Analyser
T2	Grav
T7	Probe
T6	ICP/OES
T22	Titration

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
pH	T7	AR			U	001
Calcium	T6	AR	100	µg/l	N	001
Magnesium	T6	AR	100	µg/l	N	001
Potassium	T6	AR	100	µg/l	N	001
Sodium	T6	AR	100	µg/l	N	001
Nitrate	T686	AR	0.5	mg/l	U	001
Nitrite	T686	AR	0.1	mg/l	U	001
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	001
Chloride	T686	AR	1	mg/l	U	001
Suspended Solids (Total)	T2	AR	10	mg/l	N	001
Electrical Conductivity	T7	AR	10	µS/cm	N	001
Alkalinity expressed as CaCO3	T22	AR	10	mg/l	N	001

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limited company registered in England and
Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
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Report Number: 367591-1

Date of Report: 07-Jan-2014

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 67W and 68W
Date Job Received at SAL: 18-Dec-2013
Date Analysis Started: 19-Dec-2013
Date Analysis Completed: 07-Jan-2014

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
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Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
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Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manage
(Land)

SAL Reference: 367591
Project Site: A63 Castle St - 67W and 68W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**367591 001**	**367591 002**	**367591 003**	**367591 004**	**367591 005**	**367591 006**	**367591 007**	**367591 008**
				Customer Sample Reference	**BH07 EW 001**	**BH21 EW 001**	**BH20 EW 001**	**BH22 EW 001**	**BH33 EW 001**	**SBP02 EW 001**	**WS10A EW 001**	**BH35 DEEP EW 001**
				Date Sampled	**17-DEC-2013**	**17-DEC-2013**	**17-DEC-2013**	**17-DEC-2013**	**17-DEC-2013**	**17-DEC-2013**	**17-DEC-2013**	**17-DEC-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
pH	T7	AR			**7.4**	**7.5**	**6.9**	**6.9**	**6.9**	**7.5**	**7.6**	**7.2**
As (Dissolved)	T281	AR	0.2	µg/l	**18**	**39**	**67**	**67**	**54**	**37**	**7.1**	**56**
Boron	T6	AR	10	µg/l	**820**	**1200**	**670**	**1900**	**740**	**1900**	**1800**	**1300**
Cd (Dissolved)	T281	AR	0.02	µg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Cr (Dissolved)	T281	AR	1	µg/l	**27**	**82**	**34**	**15**	**68**	**16**	**23**	**56**
Chromium (trivalent)	T85	AR	3	µg/l	**27**	**82**	**34**	**15**	**68**	**16**	**23**	**56**
Chromium VI	T686	AR	3	µg/l	<3	<3	<3	<3	<3	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**4.0**	**16**	**99**	**160**	**120**	**990**	**4.2**	**100**
Pb (Dissolved)	T281	AR	0.3	µg/l	**0.5**	**0.4**	<0.3	<0.3	<0.3	**1.0**	<0.3	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**1.4**	<0.05
Ni (Dissolved)	T281	AR	1	µg/l	**12**	**8**	**13**	**18**	**13**	**17**	**8**	**18**
Se (Dissolved)	T281	AR	0.5	µg/l	**6.3**	**19**	<0.5	<0.5	<0.5	<0.5	**3.6**	<0.5
Zn (Dissolved)	T281	AR	2	µg/l	**3**	**5**	**7**	**6**	**5**	**24**	**6**	**6**
Calcium	T6	AR	100	µg/l	**130000**	**88000**	**230000**	**200000**	**200000**	**190000**	**200000**	**160000**
Magnesium	T6	AR	100	µg/l	**140000**	**99000**	**300000**	**600000**	**320000**	**540000**	**83000**	**360000**
Potassium	T6	AR	100	µg/l	**79000**	**80000**	**90000**	**230000**	**100000**	**220000**	**110000**	**120000**
Sodium	T6	AR	100	µg/l	**350000**	**940000**	**3400000**	**4600000**	**2900000**	**3700000**	**140000**	**3200000**
Fe (Dissolved)	T373	AR	10	µg/l	**63**	**150**	**93**	**1600**	**130**	**48**	**81**	**180**
Fe (Total)	T303	AR	10	µg/l	**160000**	**24000**	**59000**	**10000**	**47000**	**25000**	**290000**	**27000**
Mn (Dissolved)	T373	AR	10	µg/l	**730**	**750**	**2600**	**360**	**2500**	**1200**	**540**	**620**
Mn (Total)	T303	AR	10	µg/l	**17000**	**1400**	**5400**	**370**	**3300**	**2200**	**11000**	**1200**
Nitrate	T686	AR	0.5	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrite	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulphate	T686	AR	0.5	mg/l	**340**	**25**	**490**	**1200**	**11**	**290**	**750**	**72**
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**130**	**11**	**200**	**470**	**4.3**	**420**	**310**	**29**
Chloride	T686	AR	1	mg/l	**720**	**1300**	**5900**	**8900**	**6100**	**550**	**45**	**6200**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**8.8**	**12**	**8.7**	**2.0**	**28**	**3.1**	**2.0**	**17**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**11**	**16**	**11**	**2.6**	**37**	**3.9**	**2.5**	**22**
Suspended Solids (Total)	T2	AR	10	mg/l	**14000**	**470**	**3300**	**99**	**660**	**41000**	**2600**	**2900**
Electrical Conductivity	T7	AR	10	µS/cm	**3900**	**6500**	**19000**	**27000**	**20000**	**3500**	**2100**	**19000**
Total Phenols	T16	AR	0.5	µg/l	<0.5	**6.8**	<0.5	<0.5	<0.5	<0.5	<0.5	**2.6**
Cyanide(Total)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10	**18**	<10
Cyanide(free)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l	**0.02**	**0.03**	<0.01	<0.01	**0.02**	**0.08**	**0.04**	**0.03**
Acenaphthylene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	T149	AR	0.01	µg/l	<0.01	**0.02**	<0.01	<0.01	<0.01	**0.04**	**0.02**	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01	**0.02**	<0.01	<0.01	<0.01	**0.10**	**0.03**	**0.02**
Benzo(a)Pyrene	T149	AR	0.01	µg/l	<0.01	**0.05**	<0.01	<0.01	**0.03**	**0.10**	**0.02**	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	**0.01**	**0.04**	**0.01**	<0.01	**0.01**	**0.07**	**0.02**	**0.02**
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	<0.01	**0.01**	<0.01	<0.01	**0.01**	<0.01	**0.03**	**0.03**
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	**0.01**	**0.02**	<0.01	<0.01	<0.01	**0.03**	**0.02**	**0.01**
Chrysene	T149	AR	0.01	µg/l	<0.01	**0.02**	<0.01	<0.01	<0.01	**0.07**	**0.03**	**0.02**
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	T149	AR	0.01	µg/l	**0.02**	**0.04**	<0.01	<0.01	<0.01	**0.19**	**0.06**	<0.01
Fluorene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	**0.04**	<0.01	**0.01**
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	**0.01**	**0.04**	**0.02**	<0.01	**0.03**	<0.01	**0.05**	**0.04**
Naphthalene	T149	AR	0.01	µg/l	**0.04**	**0.14**	**0.04**	<0.01	**0.03**	**0.04**	**0.04**	**0.06**
Phenanthrene	T149	AR	0.01	µg/l	**0.01**	**0.04**	<0.01	<0.01	<0.01	**0.15**	**0.04**	<0.01
Pyrene	T149	AR	0.01	µg/l	**0.02**	**0.03**	<0.01	<0.01	<0.01	**0.20**	**0.08**	<0.01
PAH(total)	T149	AR	0.01	µg/l	**0.14**	**0.50**	**0.07**	<0.01	**0.13**	**1.1**	**0.48**	**0.24**
TPH (C8-C10) DW	T81	AR	10	µg/l	-	<10	<10	-	<10	<10	-	-
TPH (C10-C12) DW	T81	AR	10	µg/l	-	<10	<10	-	<10	<10	-	-
TPH (C12-C16) DW	T81	AR	10	µg/l	-	<10	<10	-	<10	**29**	-	-
TPH (C16-C21) DW	T81	AR	10	µg/l	-	<10	<10	-	<10	**420**	-	-
TPH (C21-C35) DW	T81	AR	10	µg/l	-	<10	<10	-	<10	**5800**	-	-

SAL Reference: 367591
Project Site: A63 Castle St - 67W and 68W
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				SAL Reference	**367591 001**	**367591 002**	**367591 003**	**367591 004**	**367591 005**	**367591 006**	**367591 007**	**367591 008**
				Customer Sample Reference	**BH07 EW 001**	**BH21 EW 001**	**BH20 EW 001**	**BH22 EW 001**	**BH33 EW 001**	**SBP02 EW 001**	**WS10A EW 001**	**BH35 DEEP EW 001**
				Date Sampled	**17-DEC-2013**	**17-DEC-2013**	**17-DEC-2013**	**17-DEC-2013**	**17-DEC-2013**	**17-DEC-2013**	**17-DEC-2013**	**17-DEC-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
TPH (C35-C40)	T81	AR	10	µg/l	-	<10	<10	-	<10	**440**	-	-
TPH (C8 - C40)	T85	AR	10	µg/l	-	<10	<10	-	<10	**6690**	-	-
TPH (C5-C6 aliphatic)	T215	AR	10	µg/l	<10	-	-	<10	-	<10	<10	<10
TPH (C6-C8 aliphatic)	T215	AR	10	µg/l	<10	-	-	<10	-	<10	<10	<10
TPH (C8-C10 aliphatic)	T215	AR	10	µg/l	<10	-	-	<10	-	<10	<10	<10
TPH DW(C10-C12 aliphatic)	T81	AR	10	µg/l	<10	-	-	<10	-	<10	<10	<10
TPH DW(C12-C16 aliphatic)	T81	AR	10	µg/l	<10	-	-	<10	-	<10	<10	**26**
TPH DW(C16-C21 aliphatic)	T81	AR	10	µg/l	<10	-	-	<10	-	**67**	**12**	**13**
TPH DW(C21-C35 aliphatic)	T81	AR	10	µg/l	<10	-	-	<10	-	**1500**	**52**	**57**
TPH (C35-C44 aliphatic)	T81	AR	10	µg/l	<10	-	-	<10	-	**61**	<10	<10
TPH (Aliphatic) total	T85	AR		µg/l	N.D.	-	-	N.D.	-	**1600**	**60**	**100**
TPH (C6-C7 aromatic)	T215	AR	10	µg/l	<10	-	-	<10	-	<10	<10	<10
TPH (C7-C8 aromatic)	T215	AR	10	µg/l	<10	-	-	<10	-	<10	<10	<10
TPH (C8-C10 aromatic)	T215	AR	10	µg/l	<10	-	-	<10	-	<10	<10	<10
TPH DW(C10-C12 aromatic)	T81	AR	10	µg/l	<10	-	-	<10	-	<10	<10	<10
TPH DW(C12-C16 aromatic)	T81	AR	10	µg/l	<10	-	-	<10	-	<10	**11**	**73**
TPH DW(C16-C21 aromatic)	T81	AR	10	µg/l	**19**	-	-	<10	-	**46**	**28**	**44**
TPH DW(C21-C35 aromatic)	T81	AR	10	µg/l	**11**	-	-	<10	-	**150**	**63**	**18**
TPH (C35-C44 aromatic)	T81	AR	10	µg/l	<10	-	-	<10	-	**15**	<10	<10
TPH (Aromatic) total	T85	AR		µg/l	**30**	-	-	N.D.	-	**210**	**100**	**130**
TPH (Aliphatic+Aromatic) (sum)	T85	AR		µg/l	**30**	-	-	N.D.	-	**1800**	**160**	**230**
Benzene	T54	AR	1	µg/l	(13) <1	-	-	(13) <1	(13) <1	(13) <1	(13) <1	(13) <1
EthylBenzene	T54	AR	1	µg/l	<1	-	-	<1	<1	<1	<1	<1
Toluene	T54	AR	1	µg/l	<1	-	-	<1	<1	<1	<1	<1
M/P Xylene	T54	AR	1	µg/l	<1	-	-	<1	<1	<1	<1	<1
O Xylene	T54	AR	1	µg/l	<1	-	-	<1	<1	<1	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	-	-	<1	<1	<1	<1	<1

SAL Reference: 367591
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	SAL Reference	367591 009	367591 010	367591 011	367591 012	367591 013	367591 014	367591 015	367591 016
	Customer Sample Reference	BH30 EW 001	BH28 EW 001	BH29 EW 001	SW5 EW 001	SW6 EW 001	SW4 EW 001	SW3 EW 001	SW2 EW 001
	Date Sampled	17-DEC-2013	17-DEC-2013	17-DEC-2013	17-DEC-2013	17-DEC-2013	17-DEC-2013	17-DEC-2013	17-DEC-2013
Determinand	**Method** / **Test Sample** / **LOD** / **Units**								
pH	T7 AR	6.8	6.8	7.6	7.8	7.8	7.7	7.7	7.7
As (Dissolved)	T281 AR 0.2 µg/l	60	55	17	40	34	51	59	48
Boron	T6 AR 10 µg/l	1300	330	850	900	1100	1400	1400	1500
Cd (Dissolved)	T281 AR 0.02 µg/l	<0.02	0.04	<0.02	0.04	0.10	0.12	0.12	0.08
Cr (Dissolved)	T281 AR 1 µg/l	80	42	51	10	8	10	10	10
Chromium (trivalent)	T85 AR 3 µg/l	80	42	51	10	8	10	10	10
Chromium VI	T686 AR 3 µg/l	<3	<3	<3	<3	<3	<3	<3	<3
Cu (Dissolved)	T281 AR 0.5 µg/l	490	130	35	92	82	170	200	170
Pb (Dissolved)	T281 AR 0.3 µg/l	<0.3	0.4	0.7	<0.3	0.3	0.5	0.5	0.4
Hg (Dissolved)	T281 AR 0.05 µg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281 AR 1 µg/l	13	31	14	7	7	11	12	10
Se (Dissolved)	T281 AR 0.5 µg/l	<0.5	<0.5	8.8	35	33	<0.5	<0.5	<0.5
Zn (Dissolved)	T281 AR 2 µg/l	6	6	13	8	8	31	31	28
Calcium	T6 AR 100 µg/l	250000	300000	100000	130000	150000	160000	160000	160000
Magnesium	T6 AR 100 µg/l	320000	340000	52000	260000	320000	430000	430000	430000
Potassium	T6 AR 100 µg/l	170000	79000	82000	110000	120000	170000	170000	180000
Sodium	T6 AR 100 µg/l	3400000	3200000	330000	2100000	2600000	3500000	3600000	3700000
Fe (Dissolved)	T373 AR 10 µg/l	21000	140	95	71	73	82	84	76
Fe (Total)	T303 AR 10 µg/l	45000	80000	7100	59000	72000	1900	500	330
Mn (Dissolved)	T373 AR 10 µg/l	2000	3500	510	<10	<10	50	51	54
Mn (Total)	T303 AR 10 µg/l	2500	5200	580	2900	3800	150	66	62
Nitrate	T686 AR 0.5 mg/l	<0.5	<0.5	<0.5	15	12	5.6	5.0	4.9
Nitrite	T686 AR 0.1 mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Oxidised Nitrogen	T686 AR 0.1 mg/l	<0.1	<0.1	<0.1	3.4	2.6	1.3	1.1	1.1
Sulphate	T686 AR 0.5 mg/l	15	43	1100	610	730	930	980	970
Sulphide	T4 AR 0.05 mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65 AR 0.01 mg/l	8.4	13	120	240	290	360	370	370
Chloride	T686 AR 1 mg/l	6200	6500	8800	4100	5000	6700	6900	6800
Ammoniacal nitrogen	T179 AR 0.015 mg/l	30	31	3.7	0.18	0.26	0.74	1.6	0.69
Ammonia expressed as NH4	T179 AR 0.019 mg/l	39	39	4.7	0.22	0.34	0.95	2.1	0.88
Suspended Solids (Total)	T2 AR 10 mg/l	670	4800	28	130	120	21	14	<10
Electrical Conductivity	T7 AR 10 µS/cm	20000	20000	27000	14000	16000	21000	21000	21000
Alkalinity expressed as CaCO3	T22 AR 10 mg/l	-	-	-	160	120	130	120	110
Total Phenols	T16 AR 0.5 µg/l	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide(Total)	T220 AR 10 µg/l	<10	<10	15	<10	21	12	<10	26
Cyanide(free)	T220 AR 10 µg/l	<10	<10	<10	<10	<10	<10	<10	<10
Acenaphthene	T149 AR 0.01 µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	T149 AR 0.01 µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	T149 AR 0.01 µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)Anthracene	T149 AR 0.01 µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)Pyrene	T149 AR 0.01 µg/l	<0.01	<0.01	0.02	0.02	0.02	0.02	0.01	<0.01
Benzo(b)fluoranthene	T149 AR 0.01 µg/l	<0.01	0.01	0.01	0.01	0.01	0.01	<0.01	<0.01
Benzo(ghi)Perylene	T149 AR 0.01 µg/l	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	T149 AR 0.01 µg/l	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	T149 AR 0.01 µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenzo(ah)Anthracene	T149 AR 0.01 µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	T149 AR 0.01 µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	T149 AR 0.01 µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)Pyrene	T149 AR 0.01 µg/l	<0.01	0.02	0.02	0.01	<0.01	<0.01	<0.01	<0.01
Naphthalene	T149 AR 0.01 µg/l	<0.01	0.01	0.03	<0.01	<0.01	<0.01	0.03	0.06
Phenanthrene	T149 AR 0.01 µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	T149 AR 0.01 µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PAH(total)	T149 AR 0.01 µg/l	<0.01	0.06	0.08	0.06	0.03	0.03	0.04	0.06
TPH (C8-C10) DW	T81 AR 10 µg/l	-	<10	<10	<10	<10	<10	<10	<10
TPH (C10-C12) DW	T81 AR 10 µg/l	-	<10	<10	<10	<10	<10	<10	<10
TPH (C12-C16) DW	T81 AR 10 µg/l	-	<10	<10	<10	<10	<10	<10	<10
TPH (C16-C21) DW	T81 AR 10 µg/l	-	<10	<10	<10	<10	<10	<10	<10

SAL Reference: 367591
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				SAL Reference	**367591 009**	**367591 010**	**367591 011**	**367591 012**	**367591 013**	**367591 014**	**367591 015**	**367591 016**
				Customer Sample Reference	**BH30 EW 001**	**BH28 EW 001**	**BH29 EW 001**	**SW5 EW 001**	**SW6 EW 001**	**SW4 EW 001**	**SW3 EW 001**	**SW2 EW 001**
				Date Sampled	**17-DEC-2013**	**17-DEC-2013**	**17-DEC-2013**	**17-DEC-2013**	**17-DEC-2013**	**17-DEC-2013**	**17-DEC-2013**	**17-DEC-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
TPH (C21-C35) DW	T81	AR	10	µg/l	-	<10	<10	<10	<10	<10	<10	<10
TPH (C35-C40)	T81	AR	10	µg/l	-	<10	<10	<10	<10	<10	<10	<10
TPH (C8 - C40)	T85	AR	10	µg/l	-	<10	<10	<10	<10	<10	<10	<10
TPH (C5-C6 aliphatic)	T215	AR	10	µg/l	<10	-	<10	-	-	-	-	-
TPH (C6-C8 aliphatic)	T215	AR	10	µg/l	<10	-	<10	-	-	-	-	-
TPH (C8-C10 aliphatic)	T215	AR	10	µg/l	<10	-	<10	-	-	-	-	-
TPH DW(C10-C12 aliphatic)	T81	AR	10	µg/l	<10	-	<10	-	-	-	-	-
TPH DW(C12-C16 aliphatic)	T81	AR	10	µg/l	<10	-	<10	-	-	-	-	-
TPH DW(C16-C21 aliphatic)	T81	AR	10	µg/l	<10	-	<10	-	-	-	-	-
TPH DW(C21-C35 aliphatic)	T81	AR	10	µg/l	**41**	-	<10	-	-	-	-	-
TPH (C35-C44 aliphatic)	T81	AR	10	µg/l	<10	-	<10	-	-	-	-	-
TPH (Aliphatic) total	T85	AR		µg/l	**40**	-	N.D.	-	-	-	-	-
TPH (C6-C7 aromatic)	T215	AR	10	µg/l	<10	-	<10	-	-	-	-	-
TPH (C7-C8 aromatic)	T215	AR	10	µg/l	<10	-	<10	-	-	-	-	-
TPH (C8-C10 aromatic)	T215	AR	10	µg/l	<10	-	<10	-	-	-	-	-
TPH DW(C10-C12 aromatic)	T81	AR	10	µg/l	<10	-	<10	-	-	-	-	-
TPH DW(C12-C16 aromatic)	T81	AR	10	µg/l	<10	-	<10	-	-	-	-	-
TPH DW(C16-C21 aromatic)	T81	AR	10	µg/l	**25**	-	<10	-	-	-	-	-
TPH DW(C21-C35 aromatic)	T81	AR	10	µg/l	**17**	-	<10	-	-	-	-	-
TPH (C35-C44 aromatic)	T81	AR	10	µg/l	<10	-	<10	-	-	-	-	-
TPH (Aromatic) total	T85	AR		µg/l	**50**	-	N.D.	-	-	-	-	-
TPH (Aliphatic+Aromatic) (sum)	T85	AR		µg/l	**90**	-	N.D.	-	-	-	-	-
Benzene	T54	AR	1	µg/l	(13) <1	(13) <1	(13) <1	-	-	-	-	-
EthylBenzene	T54	AR	1	µg/l	<1	<1	<1	-	-	-	-	-
Toluene	T54	AR	1	µg/l	<1	<1	<1	-	-	-	-	-
M/P Xylene	T54	AR	1	µg/l	<1	<1	<1	-	-	-	-	-
O Xylene	T54	AR	1	µg/l	<1	<1	<1	-	-	-	-	-
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	<1	<1	-	-	-	-	-

SAL Reference: 367591
Project Site: A63 Castle St - 67W and 68W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**367591 017**	**367591 018**	**367591 019**	**367591 020**	**367591 021**	**367591 022**
				Customer Sample Reference	**SW1 EW 001**	**BH41A EW 001**	**BH02 EW 001**	**BH04 EW 001**	**BH12 EW 001**	**BH13 EW 001**
				Date Sampled	**17-DEC-2013**	**17-DEC-2013**	**16-DEC-2013**	**16-DEC-2013**	**16-DEC-2013**	**16-DEC-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
pH	T7	AR			**7.8**	**7.6**	**7.0**	**6.8**	**7.7**	**6.7**
As (Dissolved)	T281	AR	0.2	µg/l	**52**	**46**	**67**	**58**	**31**	**64**
Boron	T6	AR	10	µg/l	**1600**	**1400**	**1900**	**480**	**1300**	**250**
Cd (Dissolved)	T281	AR	0.02	µg/l	**0.08**	**0.11**	**0.02**	<0.02	<0.02	<0.02
Cr (Dissolved)	T281	AR	1	µg/l	**8**	**8**	**11**	**23**	**38**	**37**
Chromium (trivalent)	T85	AR	3	µg/l	**8**	**8**	**11**	**23**	**38**	**37**
Chromium VI	T686	AR	3	µg/l	<3	<3	<3	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**190**	**170**	**300**	**200**	**18**	**160**
Pb (Dissolved)	T281	AR	0.3	µg/l	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281	AR	1	µg/l	**10**	**9**	**34**	**21**	**10**	**18**
Se (Dissolved)	T281	AR	0.5	µg/l	<0.5	<0.5	<0.5	<0.5	**7.2**	<0.5
Zn (Dissolved)	T281	AR	2	µg/l	**10**	**9**	**9**	**5**	**8**	**10**
Calcium	T6	AR	100	µg/l	**170000**	**170000**	**240000**	**260000**	**56000**	**210000**
Magnesium	T6	AR	100	µg/l	**490000**	**440000**	**630000**	**350000**	**74000**	**270000**
Potassium	T6	AR	100	µg/l	**200000**	**180000**	**240000**	**80000**	**120000**	**51000**
Sodium	T6	AR	100	µg/l	**4100000**	**3800000**	**5400000**	**4000000**	**410000**	**3700000**
Fe (Dissolved)	T373	AR	10	µg/l	**85**	**97**	**70**	**81**	**56**	**83**
Fe (Total)	T303	AR	10	µg/l	**200000**	**26000**	**7800**	**84000**	**17000**	**14000**
Mn (Dissolved)	T373	AR	10	µg/l	<10	**16**	**1200**	**2900**	**570**	**1600**
Mn (Total)	T303	AR	10	µg/l	**15000**	**1000**	**1300**	**16000**	**1200**	**2000**
Nitrate	T686	AR	0.5	mg/l	**1.0**	**0.8**	<0.5	<0.5	<0.5	<0.5
Nitrite	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	**1.0**	**0.8**	<0.1	<0.1	<0.1	<0.1
Sulphate	T686	AR	0.5	mg/l	**990**	**920**	**1200**	**100**	**260**	**110**
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	**400**	**360**	**520**	**76**	**110**	**51**
Chloride	T686	AR	1	mg/l	**7200**	**7000**	**9800**	**6900**	**290**	**6700**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**0.75**	**0.55**	**1.1**	**15**	**14**	**9.0**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**0.97**	**0.70**	**1.4**	**19**	**18**	**12**
Suspended Solids (Total)	T2	AR	10	mg/l	**160**	**160**	**47**	**7000**	**330**	**470**
Electrical Conductivity	T7	AR	10	µS/cm	**22000**	**21000**	**28000**	**22000**	**2900**	**20000**
Alkalinity expressed as CaCO3	T22	AR	10	mg/l	**130**	-	-	-	-	-
Total Phenols	T16	AR	0.5	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide(Total)	T220	AR	10	µg/l	<10	<10	<10	**13**	**15**	**14**
Cyanide(free)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	**0.02**
Acenaphthylene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	**0.06**
Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	**0.15**
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	**0.08**
Benzo(a)Pyrene	T149	AR	0.01	µg/l	**0.07**	<0.01	<0.01	**0.01**	**0.01**	**0.06**
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	**0.03**	**0.02**	**0.02**	<0.01	<0.01	**0.11**
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	**0.02**	<0.01	<0.01	<0.01	<0.01	**0.02**
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	**0.02**	<0.01	**0.01**	<0.01	<0.01	**0.11**
Chrysene	T149	AR	0.01	µg/l	**0.02**	<0.01	<0.01	<0.01	<0.01	**0.07**
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	T149	AR	0.01	µg/l	**0.01**	<0.01	<0.01	<0.01	<0.01	**0.19**
Fluorene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	**0.12**
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	**0.03**	**0.02**	**0.02**	**0.03**	<0.01	**0.03**
Naphthalene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.04**	**0.02**	**0.03**	**0.20**
Phenanthrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	**0.52**
Pyrene	T149	AR	0.01	µg/l	**0.01**	**0.01**	<0.01	<0.01	<0.01	**0.13**
PAH(total)	T149	AR	0.01	µg/l	**0.21**	**0.05**	**0.09**	**0.06**	**0.04**	**1.9**
TPH (C8-C10) DW	T81	AR	10	µg/l	<10	-	<10	<10	<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l	<10	-	<10	<10	<10	<10
TPH (C12-C16) DW	T81	AR	10	µg/l	<10	-	<10	**77**	<10	<10
TPH (C16-C21) DW	T81	AR	10	µg/l	<10	-	<10	**230**	<10	<10

SAL Reference: 367591
Project Site: A63 Castle St - 67W and 68W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**367591 017**	**367591 018**	**367591 019**	**367591 020**	**367591 021**	**367591 022**
				Customer Sample Reference	**SW1 EW 001**	**BH41A EW 001**	**BH02 EW 001**	**BH04 EW 001**	**BH12 EW 001**	**BH13 EW 001**
				Date Sampled	**17-DEC-2013**	**17-DEC-2013**	**16-DEC-2013**	**16-DEC-2013**	**16-DEC-2013**	**16-DEC-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
TPH (C21-C35) DW	T81	AR	10	µg/l	<10	-	<10	**14**	<10	<10
TPH (C35-C40)	T81	AR	10	µg/l	<10	-	<10	<10	<10	<10
TPH (C8 - C40)	T85	AR	10	µg/l	<10	-	<10	**320**	<10	<10
TPH (C5-C6 aliphatic)	T215	AR	10	µg/l	-	<10	-	-	-	-
TPH (C6-C8 aliphatic)	T215	AR	10	µg/l	-	<10	-	-	-	-
TPH (C8-C10 aliphatic)	T215	AR	10	µg/l	-	<10	-	-	-	-
TPH DW(C10-C12 aliphatic)	T81	AR	10	µg/l	-	<10	-	-	-	-
TPH DW(C12-C16 aliphatic)	T81	AR	10	µg/l	-	<10	-	-	-	-
TPH DW(C16-C21 aliphatic)	T81	AR	10	µg/l	-	<10	-	-	-	-
TPH DW(C21-C35 aliphatic)	T81	AR	10	µg/l	-	<10	-	-	-	-
TPH (C35-C44 aliphatic)	T81	AR	10	µg/l	-	<10	-	-	-	-
TPH (Aliphatic) total	T85	AR		µg/l	-	N.D.	-	-	-	-
TPH (C6-C7 aromatic)	T215	AR	10	µg/l	-	<10	-	-	-	-
TPH (C7-C8 aromatic)	T215	AR	10	µg/l	-	<10	-	-	-	-
TPH (C8-C10 aromatic)	T215	AR	10	µg/l	-	<10	-	-	-	-
TPH DW(C10-C12 aromatic)	T81	AR	10	µg/l	-	<10	-	-	-	-
TPH DW(C12-C16 aromatic)	T81	AR	10	µg/l	-	<10	-	-	-	-
TPH DW(C16-C21 aromatic)	T81	AR	10	µg/l	-	<10	-	-	-	-
TPH DW(C21-C35 aromatic)	T81	AR	10	µg/l	-	**16**	-	-	-	-
TPH (C35-C44 aromatic)	T81	AR	10	µg/l	-	<10	-	-	-	-
TPH (Aromatic) total	T85	AR		µg/l	-	**20**	-	-	-	-
TPH (Aliphatic+Aromatic) (sum)	T85	AR		µg/l	-	**20**	-	-	-	-
Benzene	T54	AR	1	µg/l	-	(13) <1	-	(13) <1	(13) <1	(13) <1
EthylBenzene	T54	AR	1	µg/l	-	<1	-	<1	<1	<1
Toluene	T54	AR	1	µg/l	-	<1	-	<1	<1	<1
M/P Xylene	T54	AR	1	µg/l	-	<1	-	<1	<1	<1
O Xylene	T54	AR	1	µg/l	-	<1	-	<1	<1	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	-	<1	-	<1	<1	<1

SAL Reference: 367591
Project Site: A63 Castle St - 67W and 68W
Customer Reference: 112630

Water Analysed as Water
Volatile Organic Compounds (USEPA 624)

SAL Reference	**367591 006**
Customer Sample Reference	**SBP02 EW 001**
Date Sampled	**17-DEC-2013**

Determinand	Method	Test Sample	LOD	Units	
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	<1
1,1,1-Trichloroethane	T54	AR	1	µg/l	<1
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	<1
1,1,2-Trichloroethane	T54	AR	1	µg/l	<1
1,1,2-Trichloroethylene	T54	AR	1	µg/l	<1
1,1-Dichloroethane	T54	AR	1	µg/l	<1
1,1-Dichloroethylene	T54	AR	1	µg/l	<1
1,1-Dichloropropene	T54	AR	1	µg/l	<1
1,2,3-Trichloropropane	T54	AR	1	µg/l	<1
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	<1
1,2-dibromoethane	T54	AR	1	µg/l	<1
1,2-Dichlorobenzene	T54	AR	1	µg/l	<1
1,2-Dichloroethane	T54	AR	1	µg/l	<1
1,2-Dichloropropane	T54	AR	1	µg/l	<1
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	<1
1,3-Dichlorobenzene	T54	AR	1	µg/l	<1
1,3-Dichloropropane	T54	AR	1	µg/l	<1
1,4-Dichlorobenzene	T54	AR	1	µg/l	<1
2,2-Dichloropropane	T54	AR	1	µg/l	<1
2-Chlorotoluene	T54	AR	1	µg/l	<1
4-Chlorotoluene	T54	AR	1	µg/l	<1
Benzene	T54	AR	1	µg/l	(13) <1
Bromobenzene	T54	AR	1	µg/l	<1
Bromochloromethane	T54	AR	1	µg/l	<1
Bromodichloromethane	T54	AR	1	µg/l	<1
Bromoform	T54	AR	1	µg/l	<1
Bromomethane	T54	AR	1	µg/l	<1
Carbon tetrachloride	T54	AR	1	µg/l	<1
Chlorobenzene	T54	AR	1	µg/l	<1
Chlorodibromomethane	T54	AR	1	µg/l	<1
Chloroethane	T54	AR	1	µg/l	<1
Chloroform	T54	AR	1	µg/l	<1
Chloromethane	T54	AR	1	µg/l	<1
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	<1
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	<1
Dibromomethane	T54	AR	1	µg/l	<1
Dichlorodifluoromethane	T54	AR	1	µg/l	<1
Dichloromethane	T54	AR	50	µg/l	<50
EthylBenzene	T54	AR	1	µg/l	<1
Isopropyl benzene	T54	AR	1	µg/l	<1
M/P Xylene	T54	AR	1	µg/l	<1
n-Propylbenzene	T54	AR	1	µg/l	<1
O Xylene	T54	AR	1	µg/l	<1
p-Isopropyltoluene	T54	AR	1	µg/l	<1
S-Butylbenzene	T54	AR	1	µg/l	<1
Styrene	T54	AR	1	µg/l	<1
T-Butylbenzene	T54	AR	1	µg/l	<1
Tetrachloroethene	T54	AR	1	µg/l	<1
Toluene	T54	AR	1	µg/l	<1
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	<1
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	<1
Trichlorofluoromethane	T54	AR	1	µg/l	<1
Vinyl chloride	T54	AR	1	µg/l	<1
Vinyl chloride	T215	AR	0.5	µg/l	<0.5

SAL Reference: 367591
Project Site: A63 Castle St - 67W and 68W
Customer Reference: 112630

Water Analysed as Water

Semi-Volatile Organic Compounds (USEPA 625) Low Level

SAL Reference	**367591 006**
Customer Sample Reference	**SBP02 EW 001**
Date Sampled	**17-DEC-2013**

Determinand	Method	Test Sample	LOD	Units	
1,2,4-Trichlorobenzene	T71	AR	1	µg/l	<1
1,2-Dichlorobenzene	T71	AR	1	µg/l	<1
1,3-Dichlorobenzene	T71	AR	1	µg/l	<1
1,4-Dichlorobenzene	T71	AR	1	µg/l	<1
2,4,5-Trichlorophenol	T71	AR	1	µg/l	<1
2,4,6-Trichlorophenol	T71	AR	1	µg/l	<1
2,4-Dichlorophenol	T71	AR	1	µg/l	<1
2,4-Dimethylphenol	T71	AR	1	µg/l	<1
2,4-Dinitrophenol	T71	AR	1	µg/l	(36) <5
2,4-Dinitrotoluene	T71	AR	1	µg/l	<1
2,6-Dinitrotoluene	T71	AR	1	µg/l	<1
2-Chloronaphthalene	T71	AR	1	µg/l	<1
2-Chlorophenol	T71	AR	1	µg/l	<1
2-methyl phenol	T71	AR	1	µg/l	<1
2-Methylnaphthalene	T71	AR	1	µg/l	<1
2-Nitroaniline	T71	AR	1	µg/l	<1
2-Nitrophenol	T71	AR	1	µg/l	<1
3-Nitroaniline	T71	AR	1	µg/l	<1
3/4-Methylphenol	T71	AR	1	µg/l	<1
4-Bromophenyl phenylether	T71	AR	1	µg/l	<1
4-Chloro-3-methylphenol	T71	AR	1	µg/l	<1
4-Chloroaniline	T71	AR	1	µg/l	<1
4-Chlorophenyl phenylether	T71	AR	1	µg/l	<1
4-Nitroaniline	T71	AR	1	µg/l	<1
4-Nitrophenol	T71	AR	1	µg/l	(36) <5
Acenaphthene	T71	AR	1	µg/l	<1
Acenaphthylene	T71	AR	1	µg/l	<1
Anthracene	T71	AR	1	µg/l	<1
Azobenzene	T71	AR	1	µg/l	<1
Benzo(a)Anthracene	T71	AR	1	µg/l	<1
Benzo(a)Pyrene	T71	AR	1	µg/l	<1
Benzo(b/k)Fluoranthene	T71	AR	1	µg/l	<1
Benzo(ghi)Perylene	T71	AR	1	µg/l	<1
Bis (2-chloroethoxy) methane	T71	AR	1	µg/l	<1
Bis (2-chloroethyl) ether	T71	AR	1	µg/l	<1
Bis (2-chloroisopropyl) ether	T71	AR	1	µg/l	<1
Bis (2-ethylhexyl)phthalate	T71	AR	1	µg/l	<1
Butyl benzylphthalate	T71	AR	1	µg/l	<1
Carbazole	T71	AR	1	µg/l	<1
Chrysene	T71	AR	1	µg/l	<1
Di-n-butylphthalate	T71	AR	1	µg/l	<1
Di-n-octylphthalate	T71	AR	1	µg/l	<1
Dibenzo(ah)Anthracene	T71	AR	1	µg/l	<1
Dibenzofuran	T71	AR	1	µg/l	<1
Diethyl phthalate	T71	AR	1	µg/l	<1
Dimethyl phthalate	T71	AR	1	µg/l	<1
Fluoranthene	T71	AR	1	µg/l	<1
Fluorene	T71	AR	1	µg/l	<1
Hexachlorobenzene	T71	AR	1	µg/l	<1
Hexachlorobutadiene	T71	AR	1	µg/l	(36) <5
Hexachlorocyclopentadiene	T71	AR	1	µg/l	(36) <5
Hexachloroethane	T71	AR	1	µg/l	<1
Indeno(123-cd)Pyrene	T71	AR	1	µg/l	<1
Isophorone	T71	AR	1	µg/l	<1
Naphthalene	T71	AR	1	µg/l	<1
Nitrobenzene	T71	AR	1	µg/l	<1
Pentachlorophenol	T71	AR	1	µg/l	<1
Phenanthrene	T71	AR	1	µg/l	<1
Phenol	T71	AR	1	µg/l	(36) <5
Pyrene	T71	AR	1	µg/l	<1

Index to symbols used in 367591-1

Value	Description
AR	As Received
N.D.	Not Detected
13	Results have been blank corrected.
36	LOD Raised due to low Matrix spike recovery
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T220	Colorimetry (SD)
T65	ICP/OES (Preconc.)
T4	Colorimetry
T54	GC/MS (Headspace)
T215	GC/MS (Headspace)(LV)
T71	GC/MS (1l ext.)
T281	ICP/MS (Filtered)
T16	GC/MS
T179	Colorimetry (XION 500)
T85	Calc
T373	ICP/OES (Filtered)
T7	Probe
T81	GC/FID (LV)
T686	Discrete Analyser
T149	GC/MS (SIR)
T303	ICP-OES (Total)
T2	Grav
T6	ICP/OES
T22	Titration

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
pH	T7	AR			U	001-022
As (Dissolved)	T281	AR	0.2	µg/l	U	001-022
Boron	T6	AR	10	µg/l	N	001-022
Cd (Dissolved)	T281	AR	0.02	µg/l	U	001-022
Cr (Dissolved)	T281	AR	1	µg/l	U	001-022
Chromium (trivalent)	T85	AR	3	µg/l	N	001-022
Chromium VI	T686	AR	3	µg/l	U	001-022
Cu (Dissolved)	T281	AR	0.5	µg/l	U	001-022
Pb (Dissolved)	T281	AR	0.3	µg/l	U	001-022
Hg (Dissolved)	T281	AR	0.05	µg/l	U	001-022
Ni (Dissolved)	T281	AR	1	µg/l	U	001-022
Se (Dissolved)	T281	AR	0.5	µg/l	U	001-022
Zn (Dissolved)	T281	AR	2	µg/l	U	001-022
Calcium	T6	AR	100	µg/l	N	001-022
Magnesium	T6	AR	100	µg/l	N	001-022
Potassium	T6	AR	100	µg/l	N	001-022
Sodium	T6	AR	100	µg/l	N	001-022
Fe (Dissolved)	T373	AR	10	µg/l	U	001-022
Fe (Total)	T303	AR	10	µg/l	U	001-022
Mn (Dissolved)	T373	AR	10	µg/l	U	001-022
Mn (Total)	T303	AR	10	µg/l	U	001-022
Nitrate	T686	AR	0.5	mg/l	U	001-022
Nitrite	T686	AR	0.1	mg/l	U	001-022
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	001-022
Sulphate	T686	AR	0.5	mg/l	U	001-022
Sulphide	T4	AR	0.05	mg/l	N	001-022
Sulphur (total)	T65	AR	0.01	mg/l	N	001-022
Chloride	T686	AR	1	mg/l	U	001-022
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	001-022
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	001-022
Suspended Solids (Total)	T2	AR	10	mg/l	N	001-022

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Electrical Conductivity	T7	AR	10	µS/cm	N	001-022
Alkalinity expressed as CaCO3	T22	AR	10	mg/l	N	012-017
Total Phenols	T16	AR	0.5	µg/l	U	001-022
Cyanide(Total)	T220	AR	10	µg/l	WU	001-022
Cyanide(free)	T220	AR	10	µg/l	WN	001-022
Acenaphthene	T149	AR	0.01	µg/l	U	001-022
Acenaphthylene	T149	AR	0.01	µg/l	U	001-022
Anthracene	T149	AR	0.01	µg/l	U	001-022
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	001-022
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	001-022
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	001-022
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	001-022
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	001-022
Chrysene	T149	AR	0.01	µg/l	U	001-022
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	001-022
Fluoranthene	T149	AR	0.01	µg/l	U	001-022
Fluorene	T149	AR	0.01	µg/l	U	001-022
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	001-022
Naphthalene	T149	AR	0.01	µg/l	U	001-022
Phenanthrene	T149	AR	0.01	µg/l	U	001-022
Pyrene	T149	AR	0.01	µg/l	U	001-022
PAH(total)	T149	AR	0.01	µg/l	U	001-022
TPH (C8-C10) DW	T81	AR	10	µg/l	U	002-003,005-006,010-017,019-022
TPH (C10-C12) DW	T81	AR	10	µg/l	U	002-003,005-006,010-017,019-022
TPH (C12-C16) DW	T81	AR	10	µg/l	U	002-003,005-006,010-017,019-022
TPH (C16-C21) DW	T81	AR	10	µg/l	U	002-003,005-006,010-017,019-022
TPH (C21-C35) DW	T81	AR	10	µg/l	U	002-003,005-006,010-017,019-022
TPH (C35-C40)	T81	AR	10	µg/l	N	002-003,005-006,010-017,019-022
TPH (C8 - C40)	T85	AR	10	µg/l	N	002-003,005-006,010-017,019-022
TPH (C5-C6 aliphatic)	T215	AR	10	µg/l	N	001,004,006-009,011,018
TPH (C6-C8 aliphatic)	T215	AR	10	µg/l	N	001,004,006-009,011,018
TPH (C8-C10 aliphatic)	T215	AR	10	µg/l	N	001,004,006-009,011,018
TPH DW(C10-C12 aliphatic)	T81	AR	10	µg/l	N	001,004,006-009,011,018
TPH DW(C12-C16 aliphatic)	T81	AR	10	µg/l	N	001,004,006-009,011,018
TPH DW(C16-C21 aliphatic)	T81	AR	10	µg/l	N	001,004,006-009,011,018
TPH DW(C21-C35 aliphatic)	T81	AR	10	µg/l	N	001,004,006-009,011,018
TPH (C35-C44 aliphatic)	T81	AR	10	µg/l	N	001,004,006-009,011,018
TPH (Aliphatic) total	T85	AR		µg/l	N	001,004,006-009,011,018
TPH (C6-C7 aromatic)	T215	AR	10	µg/l	N	001,004,006-009,011,018
TPH (C7-C8 aromatic)	T215	AR	10	µg/l	N	001,004,006-009,011,018
TPH (C8-C10 aromatic)	T215	AR	10	µg/l	N	001,004,006-009,011,018
TPH DW(C10-C12 aromatic)	T81	AR	10	µg/l	N	001,004,006-009,011,018
TPH DW(C12-C16 aromatic)	T81	AR	10	µg/l	N	001,004,006-009,011,018
TPH DW(C16-C21 aromatic)	T81	AR	10	µg/l	N	001,004,006-009,011,018
TPH DW(C21-C35 aromatic)	T81	AR	10	µg/l	N	001,004,006-009,011,018
TPH (C35-C44 aromatic)	T81	AR	10	µg/l	N	001,004,006-009,011,018
TPH (Aromatic) total	T85	AR		µg/l	N	001,004,006-009,011,018
TPH (Aliphatic+Aromatic) (sum)	T85	AR		µg/l	N	001,004,006-009,011,018
Benzene	T54	AR	1	µg/l	U	001,004-011,018,020-022
EthylBenzene	T54	AR	1	µg/l	U	001,004-011,018,020-022
Toluene	T54	AR	1	µg/l	U	001,004-011,018,020-022
M/P Xylene	T54	AR	1	µg/l	U	001,004-011,018,020-022
O Xylene	T54	AR	1	µg/l	U	001,004-011,018,020-022
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	001,004-011,018,020-022
1,2,4-Trichlorobenzene	T71	AR	1	µg/l	U	006
1,2-Dichlorobenzene	T71	AR	1	µg/l	U	006
1,3-Dichlorobenzene	T71	AR	1	µg/l	U	006
1,4-Dichlorobenzene	T71	AR	1	µg/l	U	006
2,4,5-Trichlorophenol	T71	AR	1	µg/l	U	006
2,4,6-Trichlorophenol	T71	AR	1	µg/l	U	006
2,4-Dichlorophenol	T71	AR	1	µg/l	U	006
2,4-Dimethylphenol	T71	AR	1	µg/l	U	006
2,4-Dinitrophenol	T71	AR	1	µg/l	U	006
2,4-Dinitrotoluene	T71	AR	1	µg/l	U	006
2,6-Dinitrotoluene	T71	AR	1	µg/l	U	006
2-Chloronaphthalene	T71	AR	1	µg/l	U	006
2-Chlorophenol	T71	AR	1	µg/l	U	006
2-methyl phenol	T71	AR	1	µg/l	U	006
2-Methylnaphthalene	T71	AR	1	µg/l	U	006
2-Nitroaniline	T71	AR	1	µg/l	U	006

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
2-Nitrophenol	T71	AR	1	µg/l	U	006
3-Nitroaniline	T71	AR	1	µg/l	U	006
3/4-Methylphenol	T71	AR	1	µg/l	U	006
4-Bromophenyl phenylether	T71	AR	1	µg/l	U	006
4-Chloro-3-methylphenol	T71	AR	1	µg/l	U	006
4-Chloroaniline	T71	AR	1	µg/l	U	006
4-Chlorophenyl phenylether	T71	AR	1	µg/l	U	006
4-Nitroaniline	T71	AR	1	µg/l	U	006
4-Nitrophenol	T71	AR	1	µg/l	U	006
Acenaphthene	T71	AR	1	µg/l	U	006
Acenaphthylene	T71	AR	1	µg/l	U	006
Anthracene	T71	AR	1	µg/l	U	006
Azobenzene	T71	AR	1	µg/l	U	006
Benzo(a)Anthracene	T71	AR	1	µg/l	U	006
Benzo(a)Pyrene	T71	AR	1	µg/l	U	006
Benzo(b/k)Fluoranthene	T71	AR	1	µg/l	U	006
Benzo(ghi)Perylene	T71	AR	1	µg/l	U	006
Bis (2-chloroethoxy) methane	T71	AR	1	µg/l	U	006
Bis (2-chloroethyl) ether	T71	AR	1	µg/l	U	006
Bis (2-chloroisopropyl) ether	T71	AR	1	µg/l	U	006
Bis (2-ethylhexyl)phthalate	T71	AR	1	µg/l	U	006
Butyl benzylphthalate	T71	AR	1	µg/l	U	006
Carbazole	T71	AR	1	µg/l	U	006
Chrysene	T71	AR	1	µg/l	U	006
Di-n-butylphthalate	T71	AR	1	µg/l	U	006
Di-n-octylphthalate	T71	AR	1	µg/l	U	006
Dibenzo(ah)Anthracene	T71	AR	1	µg/l	U	006
Dibenzofuran	T71	AR	1	µg/l	U	006
Diethyl phthalate	T71	AR	1	µg/l	U	006
Dimethyl phthalate	T71	AR	1	µg/l	U	006
Fluoranthene	T71	AR	1	µg/l	U	006
Fluorene	T71	AR	1	µg/l	U	006
Hexachlorobenzene	T71	AR	1	µg/l	U	006
Hexachlorobutadiene	T71	AR	1	µg/l	U	006
Hexachlorocyclopentadiene	T71	AR	1	µg/l	U	006
Hexachloroethane	T71	AR	1	µg/l	U	006
Indeno(123-cd)Pyrene	T71	AR	1	µg/l	U	006
Isophorone	T71	AR	1	µg/l	U	006
Naphthalene	T71	AR	1	µg/l	U	006
Nitrobenzene	T71	AR	1	µg/l	U	006
Pentachlorophenol	T71	AR	1	µg/l	U	006
Phenanthrene	T71	AR	1	µg/l	U	006
Phenol	T71	AR	1	µg/l	U	006
Pyrene	T71	AR	1	µg/l	U	006
1,1,1,2-Tetrachloroethane	T54	AR	1	µg/l	U	006
1,1,1-Trichloroethane	T54	AR	1	µg/l	U	006
1,1,2,2-Tetrachloroethane	T54	AR	1	µg/l	U	006
1,1,2-Trichloroethane	T54	AR	1	µg/l	U	006
1,1,2-Trichloroethylene	T54	AR	1	µg/l	U	006
1,1-Dichloroethane	T54	AR	1	µg/l	U	006
1,1-Dichloroethylene	T54	AR	1	µg/l	U	006
1,1-Dichloropropene	T54	AR	1	µg/l	U	006
1,2,3-Trichloropropane	T54	AR	1	µg/l	U	006
1,2,4-Trimethylbenzene	T54	AR	1	µg/l	U	006
1,2-dibromoethane	T54	AR	1	µg/l	U	006
1,2-Dichlorobenzene	T54	AR	1	µg/l	U	006
1,2-Dichloroethane	T54	AR	1	µg/l	U	006
1,2-Dichloropropane	T54	AR	1	µg/l	U	006
1,3,5-Trimethylbenzene	T54	AR	1	µg/l	U	006
1,3-Dichlorobenzene	T54	AR	1	µg/l	U	006
1,3-Dichloropropane	T54	AR	1	µg/l	U	006
1,4-Dichlorobenzene	T54	AR	1	µg/l	U	006
2,2-Dichloropropane	T54	AR	1	µg/l	U	006
2-Chlorotoluene	T54	AR	1	µg/l	U	006
4-Chlorotoluene	T54	AR	1	µg/l	U	006
Bromobenzene	T54	AR	1	µg/l	U	006
Bromochloromethane	T54	AR	1	µg/l	U	006
Bromodichloromethane	T54	AR	1	µg/l	U	006
Bromoform	T54	AR	1	µg/l	U	006
Bromomethane	T54	AR	1	µg/l	U	006

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Carbon tetrachloride	T54	AR	1	µg/l	U	006
Chlorobenzene	T54	AR	1	µg/l	U	006
Chlorodibromomethane	T54	AR	1	µg/l	U	006
Chloroethane	T54	AR	1	µg/l	U	006
Chloroform	T54	AR	1	µg/l	U	006
Chloromethane	T54	AR	1	µg/l	U	006
Cis-1,2-Dichloroethylene	T54	AR	1	µg/l	U	006
Cis-1,3-Dichloropropene	T54	AR	1	µg/l	U	006
Dibromomethane	T54	AR	1	µg/l	U	006
Dichlorodifluoromethane	T54	AR	1	µg/l	U	006
Dichloromethane	T54	AR	50	µg/l	N	006
Isopropyl benzene	T54	AR	1	µg/l	U	006
n-Propylbenzene	T54	AR	1	µg/l	U	006
p-Isopropyltoluene	T54	AR	1	µg/l	U	006
S-Butylbenzene	T54	AR	1	µg/l	U	006
Styrene	T54	AR	1	µg/l	U	006
T-Butylbenzene	T54	AR	1	µg/l	U	006
Tetrachloroethene	T54	AR	1	µg/l	U	006
Trans-1,2-Dichloroethene	T54	AR	1	µg/l	U	006
Trans-1,3-Dichloropropene	T54	AR	1	µg/l	U	006
Trichlorofluoromethane	T54	AR	1	µg/l	U	006
Vinyl chloride	T54	AR	1	µg/l	U	006
Vinyl chloride	T215	AR	0.5	µg/l	N	006

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 368394-1

Date of Report: 13-Jan-2014

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Zoe Miller

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 69W
Date Job Received at SAL: 18-Dec-2013
Date Analysis Started: 27-Dec-2013
Date Analysis Completed: 13-Jan-2014

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
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Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

SAL Reference: 368394
Project Site: A63 Castle St - 69W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

				SAL Reference	**368394 001**	**368394 002**	**368394 003**	**368394 004**	**368394 005**	**368394 006**	**368394 007**	**368394 008**	**368394 009**	**368394 010**
				Customer Sample Reference	**BH05 EW 001**	**BH03 EW 001**	**BH24 EW 001**	**BH25 EW 001**	**BH26 EW 001**	**LBH01 EW 001**	**BH15 EW 001**	**BH14 EW 001**	**BH18A EW 001**	**WS01 EW 001**
				Date Sampled	**17-DEC-2013**	**17-DEC-2013**	**17-DEC-2013**	**17-DEC-2013**	**18-DEC-2013**	**18-DEC-2013**	**18-DEC-2013**	**18-DEC-2013**	**18-DEC-2013**	**18-DEC-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**										
pH	T7	AR			**7.4**	**7.1**	**7.0**	**7.0**	**7.1**	**9.8**	**6.8**	**6.9**	**7.4**	**7.4**
As (Dissolved)	T281	AR	0.2	µg/l	**43**	**40**	**29**	**23**	**30**	**25**	**36**	**30**	**48**	**45**
Boron	T6	AR	10	µg/l	**1500**	**1800**	**1600**	**590**	**380**	**160**	**680**	**700**	**1900**	**680**
Cd (Dissolved)	T281	AR	0.02	µg/l	<0.02	**0.02**	**0.02**	**0.04**	**0.02**	**0.89**	**0.19**	**0.41**	**0.09**	<0.02
Cr (Dissolved)	T281	AR	1	µg/l	**16**	**2**	**2**	**3**	**4**	**1**	**3**	**2**	**5**	**9**
Chromium (trivalent)	T85	AR	3	µg/l	**16**	<3	<3	**3**	**4**	<3	**3**	<3	**5**	**9**
Chromium VI	T686	AR	3	µg/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Cu (Dissolved)	T281	AR	0.5	µg/l	**100**	**370**	**450**	**120**	**560**	**160**	**290**	**290**	**540**	**7.1**
Pb (Dissolved)	T281	AR	0.3	µg/l	<0.3	<0.3	<0.3	<0.3	**0.4**	<0.3	<0.3	<0.3	<0.3	<0.3
Hg (Dissolved)	T281	AR	0.05	µg/l	**0.41**	**0.20**	**0.28**	**0.15**	<0.05	**0.08**	**0.07**	**0.06**	**0.08**	**0.06**
Ni (Dissolved)	T281	AR	1	µg/l	**14**	**15**	**24**	**15**	**31**	**5**	**23**	**26**	**21**	**8**
Se (Dissolved)	T281	AR	0.5	µg/l	**36**	<0.5	<0.5	**24**	<0.5	**85**	<0.5	<0.5	<0.5	**2.5**
Zn (Dissolved)	T281	AR	2	µg/l	**4**	**3**	**4**	<2	**3**	**2**	**7**	**15**	**6**	<2
Calcium	T6	AR	100	µg/l	**70000**	**340000**	**260000**	**270000**	**310000**	**170000**	**420000**	**300000**	**260000**	**200000**
Magnesium	T6	AR	100	µg/l	**170000**	**520000**	**590000**	**190000**	**340000**	**94000**	**300000**	**290000**	**570000**	**120000**
Potassium	T6	AR	100	µg/l	**79000**	**180000**	**250000**	**88000**	**100000**	**820000**	**99000**	**90000**	**230000**	**85000**
Sodium	T6	AR	100	µg/l	**1900000**	**3700000**	**4300000**	**1700000**	**2900000**	**2600000**	**2700000**	**2700000**	**4200000**	**260000**
Fe (Dissolved)	T373	AR	10	µg/l	**390**	**300**	**310**	**240**	**310**	**230**	**280**	**270**	**350**	**180**
Fe (Total)	T303	AR	10	µg/l	**180000**	**45000**	**24000**	**160000**	**260000**	**4200**	**110000**	**190000**	**10000**	**200000**
Mn (Dissolved)	T373	AR	10	µg/l	**320**	**920**	**470**	**1900**	**8500**	**11**	**670**	**1200**	**500**	**1100**
Mn (Total)	T303	AR	10	µg/l	**3700**	**1600**	**510**	**3400**	**16000**	**110**	**2700**	**33000**	**570**	**14000**
Nitrate	T686	AR	0.5	mg/l	**1.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrite	T686	AR	0.1	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	**0.3**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sulphate	T686	AR	0.5	mg/l	<0.5	**1100**	**1300**	**400**	<0.5	**930**	**57**	**110**	**1100**	**280**
Sulphide	T4	AR	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	T65	AR	0.01	mg/l	<0.01	**410**	**500**	**130**	<0.01	**380**	<0.01	<0.01	**440**	**120**
Chloride	T686	AR	1	mg/l	**3200**	**8600**	**9700**	**3400**	**6700**	**5500**	**6500**	**5900**	**8100**	**700**
Ammoniacal nitrogen	T179	AR	0.015	mg/l	**19**	**3.3**	**1.1**	**18**	**50**	**23**	**19**	**27**	**1.6**	**5.1**
Ammonia expressed as NH4	T179	AR	0.019	mg/l	**24**	**4.2**	**1.4**	**23**	**65**	**30**	**25**	**35**	**2.0**	**6.5**
Suspended Solids (Total)	T2	AR	10	mg/l	**2700**	**280**	**74**	**2100**	**3400**	**43**	**6400**	**7900**	**300**	**26000**
Electrical Conductivity	T7	AR	10	µS/cm	**11000**	**22000**	**24000**	**10000**	**17000**	**16000**	**17000**	**16000**	**24000**	**23000**
Alkalinity expressed as CaCO3	T22	AR	10	mg/l	-	-	-	-	-	**250**	-	-	-	-
Total Phenols	T16	AR	0.5	µg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Cyanide(Total)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Cyanide(free)	T220	AR	10	µg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acenaphthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.01**	<0.01	<0.01
Acenaphthylene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	**0.01**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	T149	AR	0.01	µg/l	**0.02**	<0.01	<0.01	**0.03**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)Anthracene	T149	AR	0.01	µg/l	**0.02**	<0.01	<0.01	**0.03**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	**0.01**	<0.01	<0.01	**0.01**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	T149	AR	0.01	µg/l	**0.02**	<0.01	<0.01	**0.02**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	T149	AR	0.01	µg/l	**0.08**	**0.01**	<0.01	**0.08**	**0.02**	<0.01	<0.01	**0.02**	<0.01	<0.01
Fluorene	T149	AR	0.01	µg/l	**0.02**	<0.01	<0.01	**0.03**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Naphthalene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01	**0.02**	**0.18**	<0.01	<0.01	<0.01	<0.01	**0.02**
Phenanthrene	T149	AR	0.01	µg/l	**0.06**	**0.02**	<0.01	**0.10**	**0.02**	<0.01	<0.01	**0.03**	<0.01	<0.01
Pyrene	T149	AR	0.01	µg/l	**0.06**	**0.01**	<0.01	**0.06**	**0.02**	<0.01	<0.01	**0.02**	<0.01	<0.01
PAH(total)	T149	AR	0.01	µg/l	**0.29**	**0.04**	<0.01	**0.39**	**0.24**	<0.01	<0.01	**0.08**	<0.01	**0.02**
TPH (C8-C10) DW	T81	AR	10	µg/l	-	<10	-	<10	<10	<10	-	<10	<10	<10
TPH (C10-C12) DW	T81	AR	10	µg/l	-	<10	-	<10	<10	<10	-	<10	<10	<10

SAL Reference: 368394
Project Site: A63 Castle St - 69W
Customer Reference: 112630

Water Analysed as Water
Grontmij A63 Hull Standard Suite

SAL Reference					**368394 001**	**368394 002**	**368394 003**	**368394 004**	**368394 005**	**368394 006**	**368394 007**	**368394 008**	**368394 009**	**368394 010**
Customer Sample Reference					**BH05 EW 001**	**BH03 EW 001**	**BH24 EW 001**	**BH25 EW 001**	**BH26 EW 001**	**LBH01 EW 001**	**BH15 EW 001**	**BH14 EW 001**	**BH18A EW 001**	**WS01 EW 001**
Date Sampled					**17-DEC-2013**	**17-DEC-2013**	**17-DEC-2013**	**17-DEC-2013**	**18-DEC-2013**	**18-DEC-2013**	**18-DEC-2013**	**18-DEC-2013**	**18-DEC-2013**	**18-DEC-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**										
TPH (C12-C16) DW	T81	AR	10	µg/l	-	<10	-	<10	**35**	**100**	-	<10	<10	<10
TPH (C16-C21) DW	T81	AR	10	µg/l	-	<10	-	<10	**27**	**20**	-	<10	<10	**30**
TPH (C21-C35) DW	T81	AR	10	µg/l	-	<10	-	<10	<10	<10	-	<10	<10	<10
TPH (C35-C40)	T81	AR	10	µg/l	-	<10	-	<10	<10	<10	-	<10	<10	<10
TPH (C8 - C40)	T85	AR	10	µg/l	-	<10	-	<10	**60**	**120**	-	<10	<10	**30**
TPH (C5-C6 aliphatic)	T215	AR	10	µg/l	<10	-	<10	-	-	-	<10	-	-	-
TPH (C6-C8 aliphatic)	T215	AR	10	µg/l	<10	-	<10	-	-	-	<10	-	-	-
TPH (C8-C10 aliphatic)	T215	AR	10	µg/l	<10	-	<10	-	-	-	<10	-	-	-
TPH DW(C10-C12 aliphatic)	T81	AR	10	µg/l	<10	-	<10	-	-	-	<10	-	-	-
TPH DW(C12-C16 aliphatic)	T81	AR	10	µg/l	<10	-	<10	-	-	-	<10	-	-	-
TPH DW(C16-C21 aliphatic)	T81	AR	10	µg/l	<10	-	<10	-	-	-	<10	-	-	-
TPH DW(C21-C35 aliphatic)	T81	AR	10	µg/l	<10	-	<10	-	-	-	<10	-	-	-
TPH (C35-C44 aliphatic)	T81	AR	10	µg/l	<10	-	<10	-	-	-	<10	-	-	-
TPH (Aliphatic) total	T85	AR		µg/l	N.D.	-	N.D.	-	-	-	N.D.	-	-	-
TPH (C6-C7 aromatic)	T215	AR	10	µg/l	<10	-	<10	-	-	-	<10	-	-	-
TPH (C7-C8 aromatic)	T215	AR	10	µg/l	<10	-	<10	-	-	-	<10	-	-	-
TPH (C8-C10 aromatic)	T215	AR	10	µg/l	<10	-	<10	-	-	-	<10	-	-	-
TPH DW(C10-C12 aromatic)	T81	AR	10	µg/l	<10	-	<10	-	-	-	<10	-	-	-
TPH DW(C12-C16 aromatic)	T81	AR	10	µg/l	<10	-	<10	-	-	-	<10	-	-	-
TPH DW(C16-C21 aromatic)	T81	AR	10	µg/l	<10	-	<10	-	-	-	<10	-	-	-
TPH DW(C21-C35 aromatic)	T81	AR	10	µg/l	<10	-	<10	-	-	-	<10	-	-	-
TPH (C35-C44 aromatic)	T81	AR	10	µg/l	<10	-	<10	-	-	-	<10	-	-	-
TPH (Aromatic) total	T85	AR		µg/l	N.D.	-	N.D.	-	-	-	N.D.	-	-	-
TPH (Aliphatic+Aromatic) (sum)	T85	AR		µg/l	N.D.	-	N.D.	-	-	-	N.D.	-	-	-
Benzene	T54	AR	1	µg/l	(13) <1	(13) <1	(13) <1	(13) <1	-	(13) <1	(13) <1	-	-	(13) <1
EthylBenzene	T54	AR	1	µg/l	<1	<1	<1	<1	-	<1	<1	-	-	<1
Toluene	T54	AR	1	µg/l	<1	<1	<1	<1	-	<1	<1	-	-	<1
M/P Xylene	T54	AR	1	µg/l	<1	<1	<1	<1	-	<1	<1	-	-	<1
O Xylene	T54	AR	1	µg/l	<1	<1	<1	<1	-	<1	<1	-	-	<1
Methyl tert-Butyl Ether	T54	AR	1	µg/l	<1	<1	<1	<1	-	<1	<1	-	-	<1

Index to symbols used in 368394-1

Value	Description
AR	As Received
N.D.	Not Detected
13	Results have been blank corrected.
W	Analysis was performed at another SAL laboratory
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T85	Calc
T215	GC/MS (Headspace)(LV)
T281	ICP/MS (Filtered)
T373	ICP/OES (Filtered)
T7	Probe
T54	GC/MS (Headspace)
T4	Colorimetry
T2	Grav
T149	GC/MS (SIR)
T179	Colorimetry (XION 500)
T16	GC/MS

T6	ICP/OES
T65	ICP/OES (Preconc.)
T22	Titration
T81	GC/FID (LV)
T220	Colorimetry (SD)
T686	Discrete Analyser
T303	ICP-OES (Total)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
pH	T7	AR			U	001-010
As (Dissolved)	T281	AR	0.2	µg/l	U	001-010
Boron	T6	AR	10	µg/l	N	001-010
Cd (Dissolved)	T281	AR	0.02	µg/l	U	001-010
Cr (Dissolved)	T281	AR	1	µg/l	U	001-010
Chromium (trivalent)	T85	AR	3	µg/l	N	001-010
Chromium VI	T686	AR	3	µg/l	U	001-010
Cu (Dissolved)	T281	AR	0.5	µg/l	U	001-010
Pb (Dissolved)	T281	AR	0.3	µg/l	U	001-010
Hg (Dissolved)	T281	AR	0.05	µg/l	U	001-010
Ni (Dissolved)	T281	AR	1	µg/l	U	001-010
Se (Dissolved)	T281	AR	0.5	µg/l	U	001-010
Zn (Dissolved)	T281	AR	2	µg/l	U	001-010
Calcium	T6	AR	100	µg/l	N	001-010
Magnesium	T6	AR	100	µg/l	N	001-010
Potassium	T6	AR	100	µg/l	N	001-010
Sodium	T6	AR	100	µg/l	N	001-010
Fe (Dissolved)	T373	AR	10	µg/l	U	001-010
Fe (Total)	T303	AR	10	µg/l	U	001-010
Mn (Dissolved)	T373	AR	10	µg/l	U	001-010
Mn (Total)	T303	AR	10	µg/l	U	001-010
Nitrate	T686	AR	0.5	mg/l	U	001-010
Nitrite	T686	AR	0.1	mg/l	U	001-010
Total Oxidised Nitrogen	T686	AR	0.1	mg/l	U	001-010
Sulphate	T686	AR	0.5	mg/l	U	001-010
Sulphide	T4	AR	0.05	mg/l	N	001-010
Sulphur (total)	T65	AR	0.01	mg/l	N	001-010
Chloride	T686	AR	1	mg/l	U	001-010
Ammoniacal nitrogen	T179	AR	0.015	mg/l	N	001-010
Ammonia expressed as NH4	T179	AR	0.019	mg/l	N	001-010
Suspended Solids (Total)	T2	AR	10	mg/l	N	001-010
Electrical Conductivity	T7	AR	10	µS/cm	N	001-010
Alkalinity expressed as CaCO3	T22	AR	10	mg/l	N	006
Total Phenols	T16	AR	0.5	µg/l	U	001-010
Cyanide(Total)	T220	AR	10	µg/l	WU	001-010
Cyanide(free)	T220	AR	10	µg/l	WN	001-010
Acenaphthene	T149	AR	0.01	µg/l	U	001-010
Acenaphthylene	T149	AR	0.01	µg/l	U	001-010
Anthracene	T149	AR	0.01	µg/l	U	001-010
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	001-010
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	001-010
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	U	001-010
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	001-010
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	001-010
Chrysene	T149	AR	0.01	µg/l	U	001-010
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	001-010
Fluoranthene	T149	AR	0.01	µg/l	U	001-010
Fluorene	T149	AR	0.01	µg/l	U	001-010
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	001-010
Naphthalene	T149	AR	0.01	µg/l	U	001-010
Phenanthrene	T149	AR	0.01	µg/l	U	001-010
Pyrene	T149	AR	0.01	µg/l	U	001-010
PAH(total)	T149	AR	0.01	µg/l	U	001-010
TPH (C8-C10) DW	T81	AR	10	µg/l	U	002,004-006,008-010
TPH (C10-C12) DW	T81	AR	10	µg/l	U	002,004-006,008-010
TPH (C12-C16) DW	T81	AR	10	µg/l	U	002,004-006,008-010
TPH (C16-C21) DW	T81	AR	10	µg/l	U	002,004-006,008-010
TPH (C21-C35) DW	T81	AR	10	µg/l	U	002,004-006,008-010
TPH (C35-C40)	T81	AR	10	µg/l	N	002,004-006,008-010

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
TPH (C8 - C40)	T85	AR	10	µg/l	N	002,004-006,008-010
TPH (C5-C6 aliphatic)	T215	AR	10	µg/l	N	001,003,007
TPH (C6-C8 aliphatic)	T215	AR	10	µg/l	N	001,003,007
TPH (C8-C10 aliphatic)	T215	AR	10	µg/l	N	001,003,007
TPH DW(C10-C12 aliphatic)	T81	AR	10	µg/l	N	001,003,007
TPH DW(C12-C16 aliphatic)	T81	AR	10	µg/l	N	001,003,007
TPH DW(C16-C21 aliphatic)	T81	AR	10	µg/l	N	001,003,007
TPH DW(C21-C35 aliphatic)	T81	AR	10	µg/l	N	001,003,007
TPH (C35-C44 aliphatic)	T81	AR	10	µg/l	N	001,003,007
TPH (Aliphatic) total	T85	AR		µg/l	N	001,003,007
TPH (C6-C7 aromatic)	T215	AR	10	µg/l	N	001,003,007
TPH (C7-C8 aromatic)	T215	AR	10	µg/l	N	001,003,007
TPH (C8-C10 aromatic)	T215	AR	10	µg/l	N	001,003,007
TPH DW(C10-C12 aromatic)	T81	AR	10	µg/l	N	001,003,007
TPH DW(C12-C16 aromatic)	T81	AR	10	µg/l	N	001,003,007
TPH DW(C16-C21 aromatic)	T81	AR	10	µg/l	N	001,003,007
TPH DW(C21-C35 aromatic)	T81	AR	10	µg/l	N	001,003,007
TPH (C35-C44 aromatic)	T81	AR	10	µg/l	N	001,003,007
TPH (Aromatic) total	T85	AR		µg/l	N	001,003,007
TPH (Aliphatic+Aromatic) (sum)	T85	AR		µg/l	N	001,003,007
Benzene	T54	AR	1	µg/l	U	001-004,006-007,010
EthylBenzene	T54	AR	1	µg/l	U	001-004,006-007,010
Toluene	T54	AR	1	µg/l	U	001-004,006-007,010
M/P Xylene	T54	AR	1	µg/l	U	001-004,006-007,010
O Xylene	T54	AR	1	µg/l	U	001-004,006-007,010
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	001-004,006-007,010

Scientific Analysis Laboratories is a limited company registered in England and Wales (No 2514788) whose address is at Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 350510-1

Date of Report: 23-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St (Alkalinity)
Date Job Received at SAL: 22-Aug-2013
Date Analysis Started: 17-Sep-2013
Date Analysis Completed: 23-Sep-2013

The results reported relate to samples received in the laboratory
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

Report checked and authorised by :
Mr Ross Walker
Customer Services Manager (Land)

Issued by :
Mr Ross Walker
Customer Services Manage (Land)

SAL Reference: 350510
Project Site: A63 Castle St (Alkalinity)
Customer Reference: 112630

Water Analysed as Water
Miscellaneous

SAL Reference					**350510 001**	**350510 002**	**350510 003**	**350510 004**	**350510 005**	**350510 006**	**350510 007**	**350510 008**
Customer Sample Reference					**SW1 EW 001 (347221/039)**	**SW2 EW 001 (346570/025)**	**SW3 EW 001 (346570/027)**	**SW4 EW 001 (346570/026)**	**SW5 EW 001 (347221/022)**	**SW6 EW 001 (347221/021)**	**SW2 EW 001 1.5 (349248/001)**	**SW3 EW 001 1.8 (349248/002)**
Date Sampled					**22-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**20-AUG-2013**	**22-AUG-2013**	**22-AUG-2013**	**05-SEP-2013**	**05-SEP-2013**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**								
Alkalinity expressed as CaCO3	T22	AR	10	mg/l	**130**	**130**	**120**	**120**	**110**	**110**	**130**	**120**

Index to symbols used in 350510-1

Value	Description
AR	As Received
N	Analysis is not UKAS accredited

Method Index

Value	Description
T22	Titration

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Alkalinity expressed as CaCO3	T22	AR	10	mg/l	N	001-008

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
Hadfield Street
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Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 351165-1

Date of Report: 25-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - Asbestos
Date Job Received at SAL: 02-Sep-2013
Date Analysis Started: 20-Sep-2013
Date Analysis Completed: 25-Sep-2013

The results reported relate to samples received in the laboratory
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

SAL Reference: 351165
Project Site: A63 Castle St - Asbestos
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

SAL Reference	351165 001	351165 002	351165 003	351165 004	351165 005
Customer Sample Reference	WS10 ES 001 0.5 (346570/032)	WS12A ES 002 0.4-0.6 (347221/017)	SCPT28 ES 001 0.5 (348302/006)	SCPT14 TRENCH ES 001 0.4 (348302/035)	WS01 ES 002 1.0-1.2 (348302/025)
Date Sampled	20-AUG-2013	21-AUG-2013	28-AUG-2013	29-AUG-2013	29-AUG-2013

Determinand	Method	Test Sample	LOD	Units					
Asbestos Quantification	T27	AR	0.001	%	Asbestos (Lagging)	Chrysotile Detected	Chrysotile Detected	Chrysotile Detected	Chrysotile Detected
					-	-	-	-	-
					Chrysotile Detected	**0.016**	**0.022**	**0.042**	**0.013**
					-				
					0.013				

Index to symbols used in 351165-1

Value	Description
AR	As Received
S	Analysis was subcontracted
U	Analysis is UKAS accredited

Method Index

Value	Description
T27	PLM

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Asbestos Quantification	T27	AR	0.001	%	SU	001-005

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
Hadfield Street
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Manchester
M16 9FE
Tel : 0161 874 2400
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Report Number: Supplement to 354807-1

Date of Report: 15-Oct-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - Asbestos
Date Job Received at SAL: 10-Oct-2013
Date Analysis Started: 11-Oct-2013
Date Analysis Completed: 15-Oct-2013

The results reported relate to samples received in the laboratory
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Lianne Bromiley
Assistant Customer Servic
Manager

[redacted]

SAL Reference: 354807
Project Site: A63 Castle St - Asbestos
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

SAL Reference	354807 001	354807 002	354807 003	354807 004	354807 005
Customer Sample Reference	BH14 0.5mbgl (349049/062)	BH46 0.5mbgl (350010/061)	WS20 0.25mbgl (350010/006)	BH41 3mbgl (350010/013)	BH41 9.5mbgl (350010/025)
Date Sampled	03-SEP-2013	05-SEP-2013	06-SEP-2013	09-SEP-2013	09-SEP-2013

Determinand	Method	Test Sample	LOD	Units					
Asbestos Quantification	T27	AR	0.001	%	Chrysotile Detected	Asbestos (Lagging)	Amosite Detected	Chrysotile Detected	Amosite Detected
					-	-	-	-	-
					<0.001	Chrysotile Detected	**0.018**	**0.033**	**0.074**
						-			
						0.11			

Index to symbols used in Supplement to 354807-1

Value	Description
AR	As Received
S	Analysis was subcontracted
U	Analysis is UKAS accredited

Notes

Supplemental report issued to correct the asbestos result for sample 005

Method Index

Value	Description
T27	PLM

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Asbestos Quantification	T27	AR	0.001	%	SU	001-005

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
Hadfield Street
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M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 348289-1

Date of Report: 10-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St
Date Job Received at SAL: 23-Jul-2013
Date Analysis Started: 03-Sep-2013
Date Analysis Completed: 10-Sep-2013

The results reported relate to samples received in the laboratory
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Manager
(Land)

SAL Reference: 348289
Project Site: A63 Castle St
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

	SAL Reference	348289 001	348289 002	348289 003	348289 004
	Customer Sample Reference	SCPT30 ES 001 0.5 (345667/020)	BH06 ES 006 2.5 (345430/015)	SCPT4 ES 001 0.5 (342275/012)	BH06 ES 008 3.0 (345430/016)
	Date Sampled	14-AUG-2013	12-AUG-2013	19-JUL-2013	12-AUG-2013
Determinand	**Method** / **Test Sample** / **LOD** / **Units**				
Asbestos ID	T27 / AR / /	-	-	-	N.D.
Asbestos Quantification	T27 / AR / 0.001 / %	Chrysotile Detected <0.001% -	Chrysotile Detected <0.001% -	Chrysotile Detected <0.001% -	-

Index to symbols used in 348289-1

Value	Description
AR	As Received
N.D.	Not Detected
S	Analysis was subcontracted
U	Analysis is UKAS accredited

Method Index

Value	Description
T27	PLM

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Asbestos ID	T27	AR			SU	004
Asbestos Quantification	T27	AR	0.001	%	SU	001-003

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limited company registered in England and
Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
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Tel : 0161 874 2400
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Report Number: 349049-1

Date of Report: 20-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 43
Date Job Received at SAL: 04-Sep-2013
Date Analysis Started: 09-Sep-2013
Date Analysis Completed: 19-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Man
(Land)

Waste Acceptance Criteria

Customer Sample Reference : BH23 ES 020 6.0
SAL Sample Reference : 349049 058
Project Site : A63 Castle St - 43
Customer Reference : 112630
Test Portion Mass (g) : 175
Date Sampled : 03-SEP-2013
Depth : 6.0
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	3.8			10.0
Moisture	Grav	0.1	%	N	29			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	8.5		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	1.1	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	5	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.015	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.066	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.16	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00081	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	520	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.13	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.098	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	700	**500.0**	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	3.8	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.024	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.54	**0.5**	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.038	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.017	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	530	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	4300	**4000.0**	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.038	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Note:- Sample failed to produce sufficient eluate within the specified time after vacuum filtration for 1 hour and centrifugation for 30 minutes. Therefore, the exact application of the two-step leaching test is precluded on technical grounds. (ref: Section 5.2.4 BS EN 12457-3:2002) Results are derived from a single step leaching at L/S 10/1 as prescribed by the EA guidance. (Ref Section C4.1.1 Guidance on Sampling and Testing of Wastes to meet Landfill Waste Acceptance Procedures Version 1 April 2005, Environment Agency)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH14 ES 026 7.0
SAL Sample Reference : 349049 075
Project Site : A63 Castle St - 43
Customer Reference : 112630
Date Sampled : 03-SEP-2013
Depth : 7.0
Test Portion Mass (g) : 175
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	3.3			10.0
Moisture	Grav	0.1	%	N	25			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	(100) <0.0035	1.0		
pH	Probe			M	8.4		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	1.0	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	(9) <10	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.034	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.19	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00040	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	510	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.096	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.017	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	290	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	2.5	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	<0.0030	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.35	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.019	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.013	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	800	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	4300	**4000.0**	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	<0.020	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Note:- Sample failed to produce sufficient eluate within the specified time after vacuum filtration for 1 hour and centrifugation for 30 minutes. Therefore, the exact application of the two-step leaching test is precluded on technical grounds. (ref: Section 5.2.4 BS EN 12457-3:2002) Results are derived from a single step leaching at L/S 10/1 as prescribed by the EA guidance. (Ref Section C4.1.1 Guidance on Sampling and Testing of Wastes to meet Landfill Waste Acceptance Procedures Version 1 April 2005, Environment Agency)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

SAL Reference: 349049
Project Site: A63 Castle St - 43
Customer Reference: 112630

Soil Analysed as Soil
MCERTS Preparation

SAL Reference	**349049 058**	**349049 075**
Customer Sample Reference	**BH23 ES 020 6.0**	**BH14 ES 026 7.0**
Test Sample	**AR**	**AR**
Date Sampled	**03-SEP-2013**	**03-SEP-2013**
Depth	**6.0**	**7.0**
Type	**Clay**	**Clay**

Determinand	Method	LOD	Units	Symbol		
Moisture	Grav (1 Dec) (40 C)	0.1	%	N	**28**	**27**
Moisture @ 105 C	Grav (1 Dec) (105 C)	0.1	%	N	**29**	**25**

SAL Reference: 349049
Project Site: A63 Castle St - 43
Customer Reference: 112630

Soil Analysed as Soil
WAC

SAL Reference	**349049 058**	**349049 075**
Customer Sample Reference	**BH23 ES 020 6.0**	**BH14 ES 026 7.0**
Test Sample	**M105**	**M105**
Date Sampled	**03-SEP-2013**	**03-SEP-2013**
Depth	**6.0**	**7.0**
Type	**Clay**	**Clay**

Determinand	Method	LOD	Units	Symbol		
Naphthalene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Acenaphthylene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1
Acenaphthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Fluorene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Phenanthrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Anthracene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1
Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(a)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Chrysene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(b/k)Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(a)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Indeno(123-cd)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Dibenzo(ah)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(ghi)Perylene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Polyaromatic Hydrocarbons (Total)	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1
Phenol	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Coronene	GC/MS	0.1	mg/kg	N	<0.1	<0.1
Total Petroleum Hydrocarbons	GC/FID	1	mg/kg	M	**5**	(9) <10
Total Petroleum Hydrocarbons (C35-C40)	GC/FID	1	mg/kg	N	<1	(9) <10
Benzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
Toluene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
EthylBenzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
Ortho-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
Meta/Para-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
Polychlorinated biphenyl BZ#101	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(100) <0.00050
Polychlorinated biphenyl BZ#118	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(100) <0.00050
Polychlorinated biphenyl BZ#138	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(100) <0.00050
Polychlorinated biphenyl BZ#153	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(100) <0.00050
Polychlorinated biphenyl BZ#180	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(100) <0.00050
Polychlorinated biphenyl BZ#28	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(100) <0.00050
Polychlorinated biphenyl BZ#52	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(100) <0.00050

Index to symbols used in 349049-1

Value	Description
10:1	Leachate to BS EN 12457-2 (10:1)
8:1	Leachate to BS EN 12457-3 (8:1)
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
AR	As Received
2:1	Leachate to BS EN 12457-3 (2:1)
100	LOD determined by sample aliquot used for analysis
9	LOD raised due to dilution of sample
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

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limited company registered in England and
Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 349263-1

Date of Report: 19-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 44
Date Job Received at SAL: 06-Sep-2013
Date Analysis Started: 10-Sep-2013
Date Analysis Completed: 19-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
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Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Man
(Land)

Waste Acceptance Criteria

Customer Sample Reference : WS11 ES 010 4.2
SAL Sample Reference : 349263 007
Project Site : A63 Castle St - 44
Customer Reference : 112630
Test Portion Mass (g) : 175
Date Sampled : 04-SEP-2013
Top Depth : 4.2
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	2.4			10.0
Moisture	Grav	0.1	%	N	30			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.9		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	0.8	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.015	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.013	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.33	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	58	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.038	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.0087	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	140	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	1.6	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	<0.0030	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.12	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.0072	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	740	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	2300	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	<0.020	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Note:- Sample failed to produce sufficient eluate within the specified time after vacuum filtration for 1 hour and centrifugation for 30 minutes. Therefore, the exact application of the two-step leaching test is precluded on technical grounds. (ref: Section 5.2.4 BS EN 12457-3:2002) Results are derived from a single step leaching at L/S 10/1 as prescribed by the EA guidance. (Ref Section C4.1.1 Guidance on Sampling and Testing of Wastes to meet Landfill Waste Acceptance Procedures Version 1 April 2005, Environment Agency)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : WS22 ES 002 1.0
SAL Sample Reference : 349263 009
Project Site : A63 Castle St - 44
Customer Reference : 112630
Date Sampled : 04-SEP-2013
Test Portion Mass (g) : 175
Top Depth : 1.0
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	5.6			10.0
Moisture	Grav	0.1	%	N	21			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.8		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	2.4	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.18	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.15	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	25	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.050	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.055	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	140	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	1.6	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.034	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.019	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.023	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	<0.0050	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	9.7	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	910	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.074	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Note:- Sample failed to produce sufficient eluate within the specified time after vacuum filtration for 1 hour and centrifugation for 30 minutes. Therefore, the exact application of the two-step leaching test is precluded on technical grounds. (ref: Section 5.2.4 BS EN 12457-3:2002) Results are derived from a single step leaching at L/S 10/1 as prescribed by the EA guidance. (Ref Section C4.1.1 Guidance on Sampling and Testing of Wastes to meet Landfill Waste Acceptance Procedures Version 1 April 2005, Environment Agency)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

SAL Reference: 349263
Project Site: A63 Castle St - 44
Customer Reference: 112630

Soil Analysed as Soil
MCERTS Preparation

SAL Reference	**349263 007**	**349263 009**
Customer Sample Reference	**WS11 ES 010 4.2**	**WS22 ES 002 1.0**
Test Sample	**AR**	**AR**
Date Sampled	**04-SEP-2013**	**04-SEP-2013**
Top Depth	**4.2**	**1.0**
Type	**Clay**	**Sandy Soil**

Determinand	Method	LOD	Units	Symbol		
Moisture	Grav (1 Dec) (40 C)	0.1	%	N	**29**	**20**
Moisture @ 105 C	Grav (1 Dec) (105 C)	0.1	%	N	**30**	**21**

SAL Reference: 349263
Project Site: A63 Castle St - 44
Customer Reference: 112630

Soil Analysed as Soil
Total and Speciated USEPA16 PAH

SAL Reference	**349263 007**	**349263 009**
Customer Sample Reference	**WS11 ES 010 4.2**	**WS22 ES 002 1.0**
Test Sample	**M105**	**M105**
Date Sampled	**04-SEP-2013**	**04-SEP-2013**
Top Depth	**4.2**	**1.0**
Type	**Clay**	**Sandy Soil**

Determinand	Method	LOD	Units	Symbol		
Naphthalene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Acenaphthylene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1
Acenaphthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Fluorene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Phenanthrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Anthracene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1
Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(a)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Chrysene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(b/k)Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(a)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Indeno(123-cd)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Dibenzo(ah)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(ghi)Perylene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Polyaromatic Hydrocarbons (Total)	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1
Phenol	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Coronene	GC/MS	0.1	mg/kg	N	<0.1	<0.1

SAL Reference: 349263
Project Site: A63 Castle St - 44
Customer Reference: 112630

Soil Analysed as Soil
TPH

SAL Reference	**349263 007**	**349263 009**
Customer Sample Reference	**WS11 ES 010 4.2**	**WS22 ES 002 1.0**
Test Sample	**M105**	**M105**
Date Sampled	**04-SEP-2013**	**04-SEP-2013**
Top Depth	**4.2**	**1.0**
Type	**Clay**	**Sandy Soil**

Determinand	Method	LOD	Units	Symbol		
Total Petroleum Hydrocarbons	GC/FID	1	mg/kg	M	<1	<1
Total Petroleum Hydrocarbons (C35-C40)	GC/FID	1	mg/kg	N	<1	<1

SAL Reference: 349263
Project Site: A63 Castle St - 44
Customer Reference: 112630

Soil Analysed as Soil
BTEX

SAL Reference	**349263 007**	**349263 009**
Customer Sample Reference	**WS11 ES 010 4.2**	**WS22 ES 002 1.0**
Test Sample	**M105**	**M105**
Date Sampled	**04-SEP-2013**	**04-SEP-2013**
Top Depth	**4.2**	**1.0**
Type	**Clay**	**Sandy Soil**

Determinand	Method	LOD	Units	Symbol		
Benzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
Toluene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
EthylBenzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
Meta/Para-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	**0.020**
Ortho-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010

SAL Reference: 349263
Project Site: A63 Castle St - 44
Customer Reference: 112630

Soil Analysed as Soil
PCB EC7

SAL Reference	**349263 007**	**349263 009**
Customer Sample Reference	**WS11 ES 010 4.2**	**WS22 ES 002 1.0**
Test Sample	**M105**	**M105**
Date Sampled	**04-SEP-2013**	**04-SEP-2013**
Top Depth	**4.2**	**1.0**
Type	**Clay**	**Sandy Soil**

Determinand	Method	LOD	Units	Symbol		
Polychlorinated biphenyl BZ#101	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005
Polychlorinated biphenyl BZ#118	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005
Polychlorinated biphenyl BZ#138	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005
Polychlorinated biphenyl BZ#153	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005
Polychlorinated biphenyl BZ#180	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005
Polychlorinated biphenyl BZ#28	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005
Polychlorinated biphenyl BZ#52	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005

Index to symbols used in 349263-1

Value	Description
2:1	Leachate to BS EN 12457-3 (2:1)
AR	As Received
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
8:1	Leachate to BS EN 12457-3 (8:1)
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Scientific Analysis Laboratories is a
limited company registered in England and
Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 350010-1

Date of Report: 26-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 45, 46, 47, 48
Date Job Received at SAL: 09-Sep-2013
Date Analysis Started: 17-Sep-2013
Date Analysis Completed: 26-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Man
(Land)

[redacted]

Waste Acceptance Criteria

Customer Sample Reference : WS20 ES 001 0.25
SAL Sample Reference : 350010 006
Project Site : A63 Castle St - 45, 46, 47, 48
Customer Reference : 112630
Depth : 0.25
Date Sampled : 06-SEP-2013
Test Portion Mass (g) : 175
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	8.0			10.0
Moisture	Grav	0.1	%	N	7.5			
PAH (Sum)	Calc	1.6	mg/kg	N	130	**100.0**		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	(9) <0.0035	1.0		
pH	Probe			M	7.9		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	15	3.0	5.0	**6.0**
TPH C10-C40 (sum)	Calc	1	mg/kg	N	270	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.073	**0.06**	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.092	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	4.1	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00044	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	34	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.041	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.33	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	110	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	6.9	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.088	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	0.0037	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.17	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.049	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.16	**0.1**	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	120	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	610	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.083	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH41 ES 012 3.0
SAL Sample Reference : 350010 013
Project Site : A63 Castle St - 45, 46, 47, 48
Customer Reference : 112630
Date Sampled : 09-SEP-2013
Test Portion Mass (g) : 175
Depth : 3.0
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	3.0			10.0
Moisture	Grav	0.1	%	N	29			
PAH (Sum)	Calc	1.6	mg/kg	N	9.3	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	8.0		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	1.0	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	260	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.046	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.028	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	3.2	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	1000	**800.0**	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.034	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.030	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	(IS) 61	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	6.8	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.025	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	0.0010	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.037	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.015	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.022	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	790	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	3400	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.031	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Note:- Sample failed to produce sufficient eluate within the specified time after vacuum filtration for 1 hour and centrifugation for 30 minutes. Therefore, the exact application of the two-step leaching test is precluded on technical grounds. (ref: Section 5.2.4 BS EN 12457-3:2002) Results are derived from a single step leaching at L/S 10/1 as prescribed by the EA guidance. (Ref Section C4.1.1 Guidance on Sampling and Testing of Wastes to meet Landfill Waste Acceptance Procedures Version 1 April 2005, Environment Agency)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH44 ES 006 2.5
SAL Sample Reference : 350010 028
Project Site : A63 Castle St - 45, 46, 47, 48
Customer Reference : 112630
Test Portion Mass (g) : 175
Depth : 2.5
Date Sampled : 09-SEP-2013
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	7.3			10.0
Moisture	Grav	0.1	%	N	29			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.7		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	2.6	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.071	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	15	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00087	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	1800	**800.0**	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.095	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.026	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	160	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	4.7	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.85	**0.5**	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.16	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.028	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.025	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	890	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	5800	**4000.0**	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.15	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : TP11 ES 004 1.6
SAL Sample Reference : 350010 055
Project Site : A63 Castle St - 45, 46, 47, 48
Customer Reference : 112630
Date Sampled : 10-SEP-2013
Depth : 1.6
Test Portion Mass (g) : 175
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	4.5			10.0
Moisture	Grav	0.1	%	N	22			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.7		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	1.2	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	2400	**500.0**		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.025	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	8.1	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00022	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	21	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.051	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.010	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	120	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	5.6	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.0057	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.13	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.016	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.011	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	300	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	1900	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.041	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

SAL Reference: 350010
Project Site: A63 Castle St - 45, 46, 47, 48
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**350010 006**	**350010 013**	**350010 028**	**350010 055**
				Customer Sample Reference	**WS20 ES 001 0.25**	**BH41 ES 012 3.0**	**BH44 ES 006 2.5**	**TP11 ES 004 1.6**
				Test Sample	**AR**	**AR**	**AR**	**AR**
				Date Sampled	**06-SEP-2013**	**09-SEP-2013**	**09-SEP-2013**	**10-SEP-2013**
				Depth	**0.25**	**3.0**	**2.5**	**1.6**
				Type	**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**
Determinand	**Method**	**LOD**	**Units**	**Symbol**				
Moisture @ 105 C	Grav (1 Dec) (105 C)	0.1	%	N	**7.5**	**29**	**29**	**22**
Moisture	Grav (1 Dec) (40 C)	0.1	%	N	**7.0**	**25**	**33**	**22**

SAL Reference: 350010
Project Site: A63 Castle St - 45, 46, 47, 48
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**350010 006**	**350010 013**	**350010 028**	**350010 055**
				Customer Sample Reference	**WS20 ES 001 0.25**	**BH41 ES 012 3.0**	**BH44 ES 006 2.5**	**TP11 ES 004 1.6**
				Test Sample	**M105**	**M105**	**M105**	**M105**
				Date Sampled	**06-SEP-2013**	**09-SEP-2013**	**09-SEP-2013**	**10-SEP-2013**
				Depth	**0.25**	**3.0**	**2.5**	**1.6**
				Type	**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**
Determinand	**Method**	**LOD**	**Units**	**Symbol**				
Naphthalene	GC/MS(MCERTS)	0.1	mg/kg	M	**1.9**	<0.1	<0.1	<0.1
Acenaphthylene	GC/MS(MCERTS)	0.1	mg/kg	U	**0.2**	<0.1	<0.1	<0.1
Acenaphthene	GC/MS(MCERTS)	0.1	mg/kg	M	**2.6**	<0.1	<0.1	<0.1
Fluorene	GC/MS(MCERTS)	0.1	mg/kg	M	**2.2**	<0.1	<0.1	<0.1
Phenanthrene	GC/MS(MCERTS)	0.1	mg/kg	M	**16**	**1.1**	<0.1	<0.1
Anthracene	GC/MS(MCERTS)	0.1	mg/kg	U	**5.4**	**0.4**	<0.1	<0.1
Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	**24**	**2.4**	<0.1	<0.1
Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	**22**	**2.0**	<0.1	<0.1
Benzo(a)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	**9.9**	**0.8**	<0.1	<0.1
Chrysene	GC/MS(MCERTS)	0.1	mg/kg	M	**9.6**	**0.7**	<0.1	<0.1
Benzo(b/k)Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	**14**	**1.0**	<0.1	<0.1
Benzo(a)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	**7.3**	**0.5**	<0.1	<0.1
Indeno(123-cd)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	**3.0**	**0.2**	<0.1	<0.1
Dibenzo(ah)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	**0.8**	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	GC/MS(MCERTS)	0.1	mg/kg	M	**2.8**	**0.2**	<0.1	<0.1
Polyaromatic Hydrocarbons (Total)	GC/MS(MCERTS)	0.1	mg/kg	U	**140**	**9.3**	<0.1	<0.1
Phenol	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
Coronene	GC/MS	0.1	mg/kg	N	<0.1	<0.1	<0.1	<0.1
Total Petroleum Hydrocarbons	GC/FID	1	mg/kg	M	**230**	**230**	<1	**2400**
Total Petroleum Hydrocarbons (C35-C40)	GC/FID	1	mg/kg	N	**40**	**24**	<1	**4**
Benzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	<0.010
Toluene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	**0.012**	<0.010	<0.010	<0.010
EthylBenzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	**0.033**
Ortho-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	<0.010
Meta/Para-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	**0.012**	<0.010	<0.010	<0.010
Polychlorinated biphenyl BZ#101	GC/MS (HR)	0.00005	mg/kg	M	(9) <0.00050	<0.00005	<0.00005	<0.00005
Polychlorinated biphenyl BZ#118	GC/MS (HR)	0.00005	mg/kg	M	(9) <0.00050	<0.00005	<0.00005	<0.00005
Polychlorinated biphenyl BZ#138	GC/MS (HR)	0.00005	mg/kg	M	**0.00090**	<0.00005	<0.00005	<0.00005
Polychlorinated biphenyl BZ#153	GC/MS (HR)	0.00005	mg/kg	M	**0.00060**	**0.00012**	<0.00005	<0.00005
Polychlorinated biphenyl BZ#180	GC/MS (HR)	0.00005	mg/kg	M	**0.00060**	**0.00025**	<0.00005	<0.00005
Polychlorinated biphenyl BZ#28	GC/MS (HR)	0.00005	mg/kg	M	(9) <0.00050	<0.00005	<0.00005	<0.00005
Polychlorinated biphenyl BZ#52	GC/MS (HR)	0.00005	mg/kg	M	(9) <0.00050	<0.00005	<0.00005	<0.00005

Index to symbols used in 350010-1

Value	Description
10:1	Leachate to BS EN 12457-2 (10:1)
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
8:1	Leachate to BS EN 12457-3 (8:1)
AR	As Received
2:1	Leachate to BS EN 12457-3 (2:1)
100	LOD determined by sample aliquot used for analysis
2	LOD Raised Due to Matrix Interference
9	LOD raised due to dilution of sample
IS	Insufficient Sample
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 350456-1

Date of Report: 26-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 49, 50
Date Job Received at SAL: 12-Sep-2013
Date Analysis Started: 16-Sep-2013
Date Analysis Completed: 26-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Mana
(Land)

[redacted]

Waste Acceptance Criteria

Customer Sample Reference : WS05 ES005 3.0-4.0
SAL Sample Reference : 350456 009
Project Site : A63 Castle St - 49, 50
Customer Reference : 112630
Depth : 4.0
Top Depth : 3.0
Date Sampled : 11-SEP-2013
Test Portion Mass (g) : 175
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	7.8			10.0
Moisture	Grav	0.1	%	N	27			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	0.00068	1.0		
pH	Probe			M	8.4		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	1.0	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.015	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.026	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.17	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00035	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	210	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.043	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.019	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	270	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	3.9	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	<0.0030	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.27	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	<0.0050	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	340	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	2200	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.035	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Note:- Sample failed to produce sufficient eluate within the specified time after vacuum filtration for 1 hour and centrifugation for 30 minutes. Therefore, the exact application of the two-step leaching test is precluded on technical grounds. (ref: Section 5.2.4 BS EN 12457-3:2002) Results are derived from a single step leaching at L/S 10/1 as prescribed by the EA guidance. (Ref Section C4.1.1 Guidance on Sampling and Testing of Wastes to meet Landfill Waste Acceptance Procedures Version 1 April 2005, Environment Agency)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

SAL Reference: 350456
Project Site: A63 Castle St - 49, 50
Customer Reference: 112630

Soil Analysed as Soil
WAC

SAL Reference	**350456 009**
Customer Sample Reference	**WS05 ES005 3.0-4.0**
Test Sample	**AR**
Top Depth	**3.0**
Depth	**4.0**
Date Sampled	**11-SEP-2013**
Type	**Clay**

Determinand	Method	LOD	Units	Symbol	
Moisture @ 105 C	Grav (1 Dec) (105 C)	0.1	%	N	**27**
Moisture	Grav (1 Dec) (40 C)	0.1	%	N	**23**

SAL Reference: 350456
Project Site: A63 Castle St - 49, 50
Customer Reference: 112630

Soil Analysed as Soil
WAC

SAL Reference	**350456 009**
Customer Sample Reference	**WS05 ES005 3.0-4.0**
Test Sample	**M105**
Top Depth	**3.0**
Depth	**4.0**
Date Sampled	**11-SEP-2013**
Type	**Clay**

Determinand	Method	LOD	Units	Symbol	
Acenaphthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Acenaphthylene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1
Anthracene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1
Benzo(a)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Benzo(a)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Benzo(b/k)Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Benzo(ghi)Perylene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Chrysene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Dibenzo(ah)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Fluorene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Indeno(123-cd)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Naphthalene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Phenanthrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Polyaromatic Hydrocarbons (Total)	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1
Coronene	GC/MS	0.1	mg/kg	N	<0.1
Phenol	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Total Petroleum Hydrocarbons	GC/FID	1	mg/kg	M	<1
Total Petroleum Hydrocarbons (C35-C40)	GC/FID	1	mg/kg	N	<1
Benzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010
Toluene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010
EthylBenzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010
Ortho-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010
Meta/Para-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010
Polychlorinated biphenyl BZ#101	GC/MS (HR)	0.00005	mg/kg	M	**0.00009**
Polychlorinated biphenyl BZ#118	GC/MS (HR)	0.00005	mg/kg	M	**0.00011**
Polychlorinated biphenyl BZ#138	GC/MS (HR)	0.00005	mg/kg	M	**0.00016**
Polychlorinated biphenyl BZ#153	GC/MS (HR)	0.00005	mg/kg	M	**0.00014**
Polychlorinated biphenyl BZ#180	GC/MS (HR)	0.00005	mg/kg	M	**0.00018**
Polychlorinated biphenyl BZ#28	GC/MS (HR)	0.00005	mg/kg	M	<0.00005
Polychlorinated biphenyl BZ#52	GC/MS (HR)	0.00005	mg/kg	M	<0.00005

Index to symbols used in 350456-1

Value	Description
2:1	Leachate to BS EN 12457-3 (2:1)
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
8:1	Leachate to BS EN 12457-3 (8:1)
AR	As Received
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 349285-1

Date of Report: 19-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - WAC
Date Job Received at SAL: 06-Sep-2013
Date Analysis Started: 10-Sep-2013
Date Analysis Completed: 19-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS
THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Man
(Land)

Waste Acceptance Criteria

Customer Sample Reference : BH17 ES 004 0.5 (345430/001)
SAL Sample Reference : 349285 001
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Date Sampled : 09-AUG-2013
Test Portion Mass (g) : 175
Depth : 0.5
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	5.8			10.0
Moisture	Grav	0.1	%	N	13			
PAH (Sum)	Calc	1.6	mg/kg	N	50	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	8.1		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	4.0	**3.0**	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	91	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.081	**0.06**	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.17	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.11	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	22	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.028	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.039	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	88	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	7.5	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.030	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.017	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	<0.0050	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	<5.0	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	760	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.025	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : WS01 ES 002 1.0-1.2 (348302/025)
SAL Sample Reference : 349285 002
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Test Portion Mass (g) : 175
Depth : 1.2
Date Sampled : 29-AUG-2013
Top Depth : 1.0
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	4.8			10.0
Moisture	Grav	0.1	%	N	7.9			
PAH (Sum)	Calc	1.6	mg/kg	N	42	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	(9) <0.0035	1.0		
pH	Probe			M	8.5		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	2.8	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	83	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.098	**0.06**	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.072	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.30	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	46	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.051	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.083	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	130	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	8.6	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.042	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	0.00072	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.065	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.0087	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	160	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	1000	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.031	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : WS03 ES 001 1.8-2.0 (348302/054)
SAL Sample Reference : 349285 003
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Depth : 2.0
Date Sampled : 30-AUG-2013
Top Depth : 1.8
Test Portion Mass (g) : 175
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	3.6			10.0
Moisture	Grav	0.1	%	N	19			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.7		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	0.8	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.032	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.15	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	1400	**800.0**	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.022	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	110	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	2.7	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	<0.0030	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.12	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.018	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	280	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	3600	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	<0.020	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : TP05A ES 001 1.0-1.2 (348302/008)
SAL Sample Reference : 349285 004
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Date Sampled : 28-AUG-2013
Test Portion Mass (g) : 175
Top Depth : 1.0
Depth : 1.2
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	7.9			10.0
Moisture	Grav	0.1	%	N	9.0			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	8.3		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	12	3.0	5.0	**6.0**
TPH C10-C40 (sum)	Calc	1	mg/kg	N	240	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.016	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.060	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.17	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	22	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.019	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.077	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	79	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	3.5	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.019	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.053	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	<0.0050	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	73	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	970	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	<0.020	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : TP04 ES 001 0.2-0.5 (348302/012)
SAL Sample Reference : 349285 005
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Date Sampled : 28-AUG-2013
Top Depth : 0.2
Depth : 0.5
Test Portion Mass (g) : 175
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	7.6			10.0
Moisture	Grav	0.1	%	N	5.3			
PAH (Sum)	Calc	1.6	mg/kg	N	23	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	0.0024	1.0		
pH	Probe			M	8.2		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	17	3.0	5.0	**6.0**
TPH C10-C40 (sum)	Calc	1	mg/kg	N	93	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.069	**0.06**	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.093	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.21	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	25	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.027	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.049	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	120	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	6.5	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.11	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.041	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.0076	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	21	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	920	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.049	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH16A ES 019 5.0 (347221/032)
SAL Sample Reference : 349285 006
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Date Sampled : 21-AUG-2013
Depth : 5.0
Test Portion Mass (g) : 175
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	5.8			10.0
Moisture	Grav	0.1	%	N	28			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.6		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	1.0	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.013	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.41	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00041	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	270	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.032	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.011	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	96	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	1.4	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.0054	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.18	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.018	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.0083	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	1400	**1000.0**	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	4100	**4000.0**	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.038	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH25 ES 009 3.0 (348078/004)
SAL Sample Reference : 349285 007
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Test Portion Mass (g) : 175
Depth : 3.0
Date Sampled : 27-AUG-2013
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	3.5			10.0
Moisture	Grav	0.1	%	N	23			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.7		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	0.9	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.013	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	5.5	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	15	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.042	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.018	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	140	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	1.5	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.0060	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.13	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.017	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	<0.0050	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	520	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	2300	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.044	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH10 ES 016 6.5 (346570/006)
SAL Sample Reference : 349285 008
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Test Portion Mass (g) : 175
Date Sampled : 16-AUG-2013
Depth : 6.5
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	5.1			10.0
Moisture	Grav	0.1	%	N	31			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	8.4		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	0.8	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.012	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.047	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.25	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00056	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	220	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.038	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.018	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	160	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	1.5	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.0057	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.28	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.012	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.0067	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	490	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	2800	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.036	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Note:- Sample failed to produce sufficient eluate within the specified time after vacuum filtration for 1 hour and centrifugation for 30 minutes. Therefore, the exact application of the two-step leaching test is precluded on technical grounds. (ref: Section 5.2.4 BS EN 12457-3:2002) Results are derived from a single step leaching at L/S 10/1 as prescribed by the EA guidance. (Ref Section C4.1.1 Guidance on Sampling and Testing of Wastes to meet Landfill Waste Acceptance Procedures Version 1 April 2005, Environment Agency)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : WS26 ES 005 1.7-2.0 (349049/026)
SAL Sample Reference : 349285 009
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Depth : 2.0
Test Portion Mass (g) : 175
Date Sampled : 03-SEP-2013
Top Depth : 1.7
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	3.1			10.0
Moisture	Grav	0.1	%	N	<0.1			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	8.2		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	0.8	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	9	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.014	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	6.2	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00037	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	26	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.028	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.025	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	120	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	3.6	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.011	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.19	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.015	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	<0.0050	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	200	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	1500	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.035	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH09 ES 015 3.3 (345249/006)
SAL Sample Reference : 349285 010
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Test Portion Mass (g) : 175
Depth : 3.3
Date Sampled : 06-AUG-2013
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	2.9			10.0
Moisture	Grav	0.1	%	N	27			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.7		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	0.8	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	7	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.0062	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.56	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	63	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.041	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.011	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	85	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	1.8	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.0047	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.055	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.013	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	<0.0050	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	690	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	2800	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.035	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH01 ES 002 1.5 (344267/059)
SAL Sample Reference : 349285 011
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Depth : 1.5
Date Sampled : 06-AUG-2013
Test Portion Mass (g) : 175
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	6.2			10.0
Moisture	Grav	0.1	%	N	25			
PAH (Sum)	Calc	1.6	mg/kg	N	12	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	(9,100) <0.0010	1.0		
pH	Probe			M	8.8		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	1.0	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	52	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.024	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.13	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00037	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	470	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.069	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.018	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	84	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	<0.50	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.0053	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.18	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.021	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	520	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	2200	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.044	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

SAL Reference: 349285
Project Site: A63 Castle St - WAC
Customer Reference: 112630

Soil Analysed as Soil
MCERTS Preparation

SAL Reference	349285 001	349285 002	349285 003	349285 004	349285 005	349285 006	349285 007	349285 008	349285 009	349285 010	349285 011
Customer Sample Reference	BH17 ES 004 0.5 (345430 /001)	WS01 ES 002 1.0-1.2 (348302 /025)	WS03 ES 001 1.8-2.0 (348302 /054)	TP05A ES 001 1.0-1.2 (348302 /008)	TP04 ES 001 0.2-0.5 (348302 /012)	BH16A ES 019 5.0 (347221 /032)	BH25 ES 009 3.0 (348078 /004)	BH10 ES 016 6.5 (346570 /006)	WS26 ES 005 1.7-2.0 (349049 /026)	BH09 ES 015 3.3 (345249 /006)	BH01 ES 002 1.5 (344267 /059)
Test Sample	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
Date Sampled	09-AUG -2013	29-AUG -2013	30-AUG -2013	28-AUG -2013	28-AUG -2013	21-AUG -2013	27-AUG -2013	16-AUG -2013	03-SEP -2013	06-AUG -2013	06-AUG -2013
Depth	0.5	1.2	2.0	1.2	0.5	5.0	3.0	6.5	2.0	3.3	1.5
Top Depth		1.0	1.8	1.0	0.2				1.7		
Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Clay	Clay	Clay	Clay	Clay

Determinand	Method	LOD	Units	Symbol											
Moisture	Grav (1 Dec) (40 C)	0.1	%	N	-	-	-	-	-	-	-	-	-	-	-
Moisture @ 105 C	Grav (1 Dec) (105 C)	0.1	%	N	13	7.9	19	9.0	5.3	28	23	31	<0.1	27	25

SAL Reference: 349285
Project Site: A63 Castle St - WAC
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

SAL Reference	349285 004	349285 005	349285 011
Customer Sample Reference	TP05A ES 001 1.0-1.2 (348302/ 008)	TP04 ES 001 0.2-0.5 (348302/ 012)	BH01 ES 002 1.5 (344267/ 059)
Test Sample	AR	AR	AR
Date Sampled	28-AUG-2013	28-AUG-2013	06-AUG-2013
Depth	1.2	0.5	1.5
Top Depth	1.0	0.2	
Type	Sandy Soil	Sandy Soil	Clay

Determinand	Method	LOD	Units	Symbol			
Asbestos ID	PLM			SU	N.D.	N.D.	N.D.

SAL Reference: 349285
Project Site: A63 Castle St - WAC
Customer Reference: 112630

Soil Analysed as Soil
Total and Speciated USEPA16 PAH

SAL Reference					**34928 5 001**	**34928 5 002**	**34928 5 003**	**34928 5 004**	**34928 5 005**	**34928 5 006**	**34928 5 007**	**34928 5 008**	**34928 5 009**	**34928 5 010**	**34928 5 011**
Customer Sample Reference					**BH17 ES 004 0.5 (345430/001)**	**WS01 ES 002 1.0-1.2 (348302/025)**	**WS03 ES 001 1.8-2.0 (348302/054)**	**TP05A ES 001 1.0-1.2 (348302/008)**	**TP04 ES 001 0.2-0.5 (348302/012)**	**BH16A ES 019 5.0 (347221/032)**	**BH25 ES 009 3.0 (348078/004)**	**BH10 ES 016 6.5 (346570/006)**	**WS26 ES 005 1.7-2.0 (349049/026)**	**BH09 ES 015 3.3 (345249/006)**	**BH01 ES 002 1.5 (344267/059)**
Test Sample					**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**
Date Sampled					**09-AUG-2013**	**29-AUG-2013**	**30-AUG-2013**	**28-AUG-2013**	**28-AUG-2013**	**21-AUG-2013**	**27-AUG-2013**	**16-AUG-2013**	**03-SEP-2013**	**06-AUG-2013**	**06-AUG-2013**
Depth					**0.5**	**1.2**	**2.0**	**1.2**	**0.5**	**5.0**	**3.0**	**6.5**	**2.0**	**3.3**	**1.5**
Top Depth						**1.0**	**1.8**	**1.0**	**0.2**				**1.7**		
Type					**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**LOD**	**Units**	**Symbol**											
Naphthalene	GC/MS(MCERTS)	0.1	mg/kg	M	**1.0**	**0.9**	<0.1	<0.1	**1.4**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	GC/MS(MCERTS)	0.1	mg/kg	U	**0.5**	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	GC/MS(MCERTS)	0.1	mg/kg	M	**0.6**	**0.5**	<0.1	<0.1	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	GC/MS(MCERTS)	0.1	mg/kg	M	**1.0**	**0.5**	<0.1	<0.1	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	GC/MS(MCERTS)	0.1	mg/kg	M	**6.7**	**4.3**	<0.1	<0.1	**2.2**	<0.1	<0.1	<0.1	<0.1	<0.1	**0.9**
Anthracene	GC/MS(MCERTS)	0.1	mg/kg	U	**2.3**	**1.2**	<0.1	<0.1	**0.5**	<0.1	<0.1	<0.1	<0.1	<0.1	**0.3**
Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	**6.8**	**6.3**	<0.1	<0.1	**3.8**	<0.1	<0.1	<0.1	<0.1	<0.1	**2.4**
Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	**5.9**	**5.7**	<0.1	<0.1	**3.4**	<0.1	<0.1	<0.1	<0.1	<0.1	**2.1**
Benzo(a)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	**4.8**	**4.3**	<0.1	<0.1	**2.0**	<0.1	<0.1	<0.1	<0.1	<0.1	**1.0**
Chrysene	GC/MS(MCERTS)	0.1	mg/kg	M	**4.9**	**4.3**	<0.1	<0.1	**2.4**	<0.1	<0.1	<0.1	<0.1	<0.1	**1.0**
Benzo(b/k)Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	**7.7**	**6.9**	<0.1	<0.1	**3.7**	<0.1	<0.1	<0.1	<0.1	<0.1	**2.1**
Benzo(a)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	**3.9**	**3.4**	<0.1	<0.1	**1.7**	<0.1	<0.1	<0.1	<0.1	<0.1	**1.1**
Indeno(123-cd)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	**2.0**	**1.6**	<0.1	<0.1	**0.9**	<0.1	<0.1	<0.1	<0.1	<0.1	**0.5**
Dibenzo(ah)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	**0.5**	**0.4**	<0.1	<0.1	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	GC/MS(MCERTS)	0.1	mg/kg	M	**1.7**	**1.4**	<0.1	<0.1	**0.7**	<0.1	<0.1	<0.1	<0.1	<0.1	**0.5**
Polyaromatic Hydrocarbons (Total)	GC/MS(MCERTS)	0.1	mg/kg	U	**50**	**42**	<0.1	<0.1	**23**	<0.1	<0.1	<0.1	<0.1	<0.1	**12**
Phenol	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Coronene	GC/MS	0.1	mg/kg	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

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Soil Analysed as Soil
TPH

SAL Reference					**34928 5 001**	**34928 5 002**	**34928 5 003**	**34928 5 004**	**34928 5 005**	**34928 5 006**	**34928 5 007**	**34928 5 008**	**34928 5 009**	**34928 5 010**	**34928 5 011**
Customer Sample Reference					**BH17 ES 004 0.5 (345430/001)**	**WS01 ES 002 1.0-1.2 (348302/025)**	**WS03 ES 001 1.8-2.0 (348302/054)**	**TP05A ES 001 1.0-1.2 (348302/008)**	**TP04 ES 001 0.2-0.5 (348302/012)**	**BH16A ES 019 5.0 (347221/032)**	**BH25 ES 009 3.0 (348078/004)**	**BH10 ES 016 6.5 (346570/006)**	**WS26 ES 005 1.7-2.0 (349049/026)**	**BH09 ES 015 3.3 (345249/006)**	**BH01 ES 002 1.5 (344267/059)**
Test Sample					**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**
Date Sampled					**09-AUG-2013**	**29-AUG-2013**	**30-AUG-2013**	**28-AUG-2013**	**28-AUG-2013**	**21-AUG-2013**	**27-AUG-2013**	**16-AUG-2013**	**03-SEP-2013**	**06-AUG-2013**	**06-AUG-2013**
Depth					**0.5**	**1.2**	**2.0**	**1.2**	**0.5**	**5.0**	**3.0**	**6.5**	**2.0**	**3.3**	**1.5**
Top Depth						**1.0**	**1.8**	**1.0**	**0.2**				**1.7**		
Type					**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**LOD**	**Units**	**Symbol**											
Total Petroleum Hydrocarbons	GC/FID	1	mg/kg	M	**78**	**69**	<1	**210**	**79**	<1	<1	<1	**9**	**7**	**41**
Total Petroleum Hydrocarbons (C35-C40)	GC/FID	1	mg/kg	N	**13**	**14**	<1	**26**	**14**	<1	<1	<1	<1	<1	**11**

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Soil Analysed as Soil
BTEX

SAL Reference	34928 5 001	34928 5 002	34928 5 003	34928 5 004	34928 5 005	34928 5 006	34928 5 007	34928 5 008	34928 5 009	34928 5 010	34928 5 011
Customer Sample Reference	BH17 ES 004 0.5 (345430/001)	WS01 ES 002 1.0-1.2 (348302/025)	WS03 ES 001 1.8-2.0 (348302/054)	TP05A ES 001 1.0-1.2 (348302/008)	TP04 ES 001 0.2-0.5 (348302/012)	BH16 A ES 019 5.0 (347221/032)	BH25 ES 009 3.0 (348078/004)	BH10 ES 016 6.5 (346570/006)	WS26 ES 005 1.7-2.0 (349049/026)	BH09 ES 015 3.3 (345249/006)	BH01 ES 002 1.5 (344267/059)
Test Sample	M105	M105	M105	M105	M105	M105	M105	M105	M105	M105	M105
Date Sampled	09-AUG-2013	29-AUG-2013	30-AUG-2013	28-AUG-2013	28-AUG-2013	21-AUG-2013	27-AUG-2013	16-AUG-2013	03-SEP-2013	06-AUG-2013	06-AUG-2013
Depth	0.5	1.2	2.0	1.2	0.5	5.0	3.0	6.5	2.0	3.3	1.5
Top Depth		1.0	1.8	1.0	0.2				1.7		
Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Clay	Clay	Clay	Clay	Clay

Determinand	Method	LOD	Units	Symbol											
Benzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Toluene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
EthylBenzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ortho-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Meta/Para-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010

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PCB EC7

SAL Reference	349285 001	349285 002	349285 003	349285 004	349285 005	349285 006
Customer Sample Reference	BH17 ES 004 0.5 (345430/001)	WS01 ES 002 1.0-1.2 (348302/025)	WS03 ES 001 1.8-2.0 (348302/054)	TP05A ES 001 1.0-1.2 (348302/008)	TP04 ES 001 0.2-0.5 (348302/012)	BH16A ES 019 5.0 (347221/032)
Test Sample	M105	M105	M105	M105	M105	M105
Date Sampled	09-AUG-2013	29-AUG-2013	30-AUG-2013	28-AUG-2013	28-AUG-2013	21-AUG-2013
Depth	0.5	1.2	2.0	1.2	0.5	5.0
Top Depth		1.0	1.8	1.0	0.2	
Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay

Determinand	Method	LOD	Units	Symbol						
Polychlorinated biphenyl BZ#101	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(9) <0.00050	<0.00005	<0.00005	**0.00033**	<0.00005
Polychlorinated biphenyl BZ#118	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(9) <0.00050	<0.00005	<0.00005	**0.00025**	<0.00005
Polychlorinated biphenyl BZ#138	GC/MS (HR)	0.00005	mg/kg	M	**0.00006**	(9) <0.00050	<0.00005	<0.00005	**0.00065**	<0.00005
Polychlorinated biphenyl BZ#153	GC/MS (HR)	0.00005	mg/kg	M	**0.00007**	(9) <0.00050	<0.00005	<0.00005	**0.00057**	<0.00005
Polychlorinated biphenyl BZ#180	GC/MS (HR)	0.00005	mg/kg	M	**0.00007**	(9) <0.00050	<0.00005	<0.00005	**0.00044**	<0.00005
Polychlorinated biphenyl BZ#28	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(9) <0.00050	<0.00005	<0.00005	<0.00005	<0.00005
Polychlorinated biphenyl BZ#52	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(9) <0.00050	<0.00005	<0.00005	**0.00015**	<0.00005

SAL Reference: 349285
Project Site: A63 Castle St - WAC
Customer Reference: 112630

Soil Analysed as Soil
PCB EC7

				SAL Reference	**349285 007**	**349285 008**	**349285 009**	**349285 010**	**349285 011**
				Customer Sample Reference	**BH25 ES 009 3.0 (348078/004)**	**BH10 ES 016 6.5 (346570/006)**	**WS26 ES 005 1.7-2.0 (349049/026)**	**BH09 ES 015 3.3 (345249/006)**	**BH01 ES 002 1.5 (344267/059)**
				Test Sample	**M105**	**M105**	**M105**	**M105**	**M105**
				Date Sampled	**27-AUG-2013**	**16-AUG-2013**	**03-SEP-2013**	**06-AUG-2013**	**06-AUG-2013**
				Depth	**3.0**	**6.5**	**2.0**	**3.3**	**1.5**
				Top Depth			**1.7**		
				Type	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**LOD**	**Units**	**Symbol**					
Polychlorinated biphenyl BZ#101	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005	<0.00005	<0.00005	(100,9) <0.0010
Polychlorinated biphenyl BZ#118	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005	<0.00005	<0.00005	(9,100) <0.0010
Polychlorinated biphenyl BZ#138	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005	<0.00005	<0.00005	(9,100) <0.0010
Polychlorinated biphenyl BZ#153	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005	<0.00005	<0.00005	(100,9) <0.0010
Polychlorinated biphenyl BZ#180	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005	<0.00005	<0.00005	(100,9) <0.0010
Polychlorinated biphenyl BZ#28	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005	<0.00005	<0.00005	(100,9) <0.0010
Polychlorinated biphenyl BZ#52	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005	<0.00005	<0.00005	(9,100) <0.0010

Index to symbols used in 349285-1

Value	Description
2:1	Leachate to BS EN 12457-3 (2:1)
AR	As Received
8:1	Leachate to BS EN 12457-3 (8:1)
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
N.D.	Not Detected
9	LOD raised due to dilution of sample
100	LOD determined by sample aliquot used for analysis
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Samples 009-011: These samples have been analysed exceeding recommended holding times. It is possible therefore that the results provided may be compromised.

Appendix B: Summary of multiparameter readings

Summary of multimeter readings range from groundwater monitoring rounds

Round	Range	pH	Temperature (°C)	Specific Conductivity (µS/cm)	Dissolved Oxygen (mg/l)	Oxidation Reduction Potential (mV/l)
Round 1 (1-3 October 2013)	**Chalk Aquifer**					
	Minimum	6.4 (BH02)	12.4 (BH33)	6.83 (BH22)	0.82 (BH11)	-162 (BH11)
	Maximum	7.69 (BH11)	14.3 (BH29)	28.2 (BH02)	7.77 (BH29)	-62.5 (BH02)
	Superficial Groundwater					
	Minimum	6.68 (BH04)	12.1 (BH27/44)	2.61 (BH27)	0.21 (BH07)	-172.9 (BH07)
	Maximum	7.91 (BH12)	15.3 (BH38/40A)	27.0 (BH03)	7.80 (BH15)	139.4 (BH30)
Round 2 (21-24 October 2013)	**Chalk Aquifer**					
	Minimum	5.99 (BH02)	10.9 (BH29)	20.36 (BH29)	1.57 (BH29)	-131.1 (BH29)
	Maximum	9.08 (BH29)	12.7 (BH18A)	28.3 (BH02)	4.57 (BH18A)	-56.6 (BH02)
	Superficial Groundwater					
	Minimum	6.49 (BH04)	6.95 (BH34)	0.863 (BH15)	0.22 (BH07)	-195.3 (BH07)
	Maximum	13.2 (BH34)	15.1 (WS13)	26.9 (BH03)	9.62 (BH35 deep)	43.5 (BH41A)
	Surface Water (Docks)					
	Minimum	6.66 (SW03)	13.6 (SW03)	0.0282 (SW02)	9.84 (SW04)	169.9 (SW03)
	Maximum	6.97 (SW04)	14.3 (SW02)	27.9 (SW04)	10.42 (SW03)	191.4 (SW04)
	Surface Water (River Hull)					
	Minimum	6.86 (SW05)	13.6 (SW05)	10.86 (SW05)	9.61 (SW05)	164.9 (SW05)
	Maximum	7.13 (SW06)	14.4 (SW06)	12.76 (SW06)	10.22 (SW06)	177.4 (SW06)
	Surface Water (River Humber)					
	SW01	6.84	13.3	0.0281	10.17	186.4
Round 3 (16-18 December 2013)	**Chalk Aquifer**					
	Minimum	6.68 (BH02)	8.6 (BH18A)	2.014 (LBH01)	0.92 (BH33)	-211.3 (BH29)
	Maximum	8.74 (LBH01)	12.2 (BH02)	3.15 (BH24)	8.21 (BH18A)	-14.9 (BH02)
	Superficial Groundwater					
	Minimum	6.57 (BH26)	7.0 (WS01)	0.212 (WS10A)	0.23 (WS10A)	-165.6 (BH05)
	Maximum	8.36 (BH41A)	11.9 (BH13)	2.88 (BH03)	8.04 (BH04)	133.8 (BH41A)
	Surface Water (Docks)					
	Minimum	8.18 (SW02)	5.8 (SW04)	2.25 (SW03/04)	11.84 (SW02)	76.2 (SW04)
	Maximum	8.37 (SW04/03)	6.4 (SW02)	2.27 (SW02)	12.03 (SW03)	98.3 (SW02)
	Surface Water (River Hull)					
	Minimum	8.07 (SW05)	6.4 (SW05)	1.395 (SW05)	11.87 (SW05)	28.0 (SW05)
	Maximum	8.58 (SW06)	6.6 (SW06)	1.673 (SW06)	12.08 (SW06)	36.3 (SW06)
	Surface Water (River Humber)					
	SW01	8.07	6.4	2.41	12.13	107.8

Appendix C: Summary of ground gas monitoring results

Summary of ground gas concentrations and water depth range from monitoring rounds

Exp. Hole	Response Zone (mbgl) / Stratum	Water Depth Range (mbgl)	Methane (%)		Carbon Dioxide (%)		Oxygen (%)		Flow (l/hr)	
			Max	Max. Steady State	Max	Max. Steady State	Min	Min. Steady State	Max	Max. Steady State
BH01	8.0-12.0 / Glacial Till	2.48 - 2.66	0.10	0.10	0.90	0.90	19.30	19.30	0.10	0.10
BH02	24.00-33.30 / Chalk	1.85-2.54	0.10	0.10	0.10	0.10	19.90	19.90	0.10	0.10
BH03	18.00-20.00 / Clay	1.61 - 2.13	0.10	0.10	0.30	0.30	18.60	18.60	0.10	0.10
BH04	11.00-14.00 / Glacial Till	2.44 - 2.83	0.10	0.10	0.30	0.30	19.90	19.90	0.10	0.10
BH05	6.00-10.00 / Alluvium	1.90 - 2.28	11.90	8.90	1.10	0.90	16.60	17.40	0.10	0.10
BH06	17.00-21.00 / Clay	2.29 - 2.50	86.80	86.80	2.20	2.20	0.10	0.10	8.40	0.10
BH07	4.00-8.00 / Alluvium	1.90 - 2.31	2.00	2.00	0.90	0.90	18.00	18.00	2.70	0.10
BH11	26.70-40.20 / Chalk	2.24 - 3.21	0.10	0.10	0.10	0.10	20.00	20.00	0.10	0.10
BH12	5.30-8.30 / Alluvium	1.94 - 2.16	35.00	23.00	1.60	0.80	10.20	12.20	0.10	0.10
BH13	15.50-17.50 / Clay	2.55 - 2.58	0.10	0.10	0.40	0.40	19.70	19.70	0.10	0.10
BH14	10.50-12.30 / Clay	3.02 - 3.82	1.20	1.20	0.70	0.70	18.40	18.40	0.40	0.40
BH15	13.00-16.00 / Glacial Till	3.03 - 3.35	0.10	0.10	0.30	0.30	19.90	19.90	0.30	0.30
BH18A	27.00-40.00 / Chalk	3.28 - 4.22	0.10	0.10	0.20	0.20	19.90	19.90	N/A*	N/A*
BH19A	10.00-11.30 / Alluvium	2.54	0.10	0.10	0.20	0.20	20.10	20.10	N/A*	N/A*
BH20	16.60-18.60 / Clay	2.09 - 2.36	0.10	0.10	0.30	0.30	19.90	19.90	2.20	0.10
BH21	9.80-11.70 / Alluvium	2.20 - 2.64	0.10	0.10	0.50	0.40	19.40	19.70	0.40	0.40
BH22	24.00-37.30 / Chalk	2.35 - 3.05	0.10	0.10	0.10	0.10	20.10	20.10	-10.20	0.10
BH24	34.50-47.20 / Chalk	5.36 - 5.56	1.50	0.10	0.10	0.10	19.10	19.10	0.10	0.10
BH25	14.50-17.20 / Glacial Till	3.73 - 3.96	78.60	78.60	8.80	8.80	0.10	0.10	0.10	0.10
BH26	13.50-15.50 / Alluvium	3.87 - 4.85	61.80	61.80	8.30	8.30	5.00	5.00	1.30	1.30
BH27	6.20-10.20 / Alluvium	3.20 - 3.45	73.80	48.30	2.20	1.30	2.90	9.30	3.61	3.61
BH28	13.50-17.00 / Glacial Till	3.57 - 4.75	65.00	65.00	8.40	8.40	2.90	2.90	0.70	0.70
BH29	36.00-50.00 / Chalk	3.50 - 4.72	0.10	0.10	0.20	0.10	19.70	19.80	1.30	1.20
BH30	11.80-14.80 / Alluvium/Peat	3.25 - 3.85	39.70	39.70	2.60	2.60	10.80	10.80	8.10	8.10
BH32	7.50-11.05 / Alluvium	2.55 - 2.67	0.10	0.10	0.30	0.30	19.50	19.90	0.10	0.10
BH33	28.50-40.50 / Chalk	2.77 - 3.76	12.60	5.00	0.80	0.50	16.80	18.60	0.10	0.10
BH34	13.90-15.25 / Glacial Till	2.85 - 3.98	0.10	0.10	0.40	0.40	17.10	17.10	0.10	0.10
BH37	14.00-18.00 / Alluvium	4.22 - 4.40	0.10	0.10	3.90	3.90	11.50	11.50	0.10	0.10
BH38	12.00-15.00 / Alluvium	4.13 - 4.33	0.10	0.10	0.70	0.70	19.00	19.00	28.40	0.10
BH40A	20.00-22.50 / Alluvium	3.75 - 4.25	0.10	0.10	0.30	0.30	19.70	19.70	0.10	0.10
BH41A	2.00-5.00 / Made Ground	1.69 - 1.80	0.10	0.10	0.10	0.10	19.90	19.90	0.10	0.10
BH42	25.00-32.00 / Sand and Gravel	3.05 - 5.45	0.10	0.10	0.70	0.50	18.60	19.20	0.10	0.10
BH43	12.00-17.00 / Sand	3.13 - 3.24	0.10	0.10	0.70	0.70	19.20	19.20	0.10	0.10
BH44	12.50-15.50 / Alluvium	3.33 - 3.79	2.30	2.30	2.00	1.30	3.70	10.30	0.10	0.10
BH45	25.00-31.00 / Sand and Gravel	3.20 - 4.30	0.10	0.10	0.20	0.20	19.70	19.70	0.10	0.10
BH46	10.80-13.50 / Sand and Gravel	1.49 - 1.99	2.10	1.20	0.30	0.30	18.30	19.00	0.10	0.10
BH47	12.00-15.00 / Peat	2.68 - 3.05	2.80	2.80	1.40	1.40	17.50	17.50	1.70	1.70
SBP02	2.00-5.00 / Made Ground/Clay	2.10 - DRY	0.10	0.10	0.40	0.10	3.10	3.10	2.20	1.20
SBP03	16.00-17.00 / Clay	2.82 - 3.09	0.10	0.10	0.20	0.20	19.80	19.80	0.10	0.10
SBP04	4.00-7.00 / Clay	2.45 - 2.65	0.10	0.10	0.10	0.10	20.20	20.20	0.40	0.40
WS01	3.00-5.00 / Clay/Silt	2.07 - 2.6	2.00	2.00	0.30	0.30	19.90	19.90	13.50	13.50
WS03	3.00-5.00 / Clay/Silt	2.48 - 3.33	0.10	0.10	0.60	0.60	19.80	19.80	0.30	0.30
WS05	2.50-5.00 / Clay	3.70	0.10	0.10	0.50	0.50	20.20	20.20	0.30	0.30
WS10A	2.50-5.00 / Clay	2.18 - 2.55	0.10	0.10	1.00	1.00	19.30	19.40	1.41	1.41
WS13	2.50-5.00 / Silt	2.00 - 2.42	0.10	0.10	0.50	0.50	19.50	19.50	0.20	0.20
WS20	2.50-5.00 / Silt	1.75 - 2.40	0.10	0.10	0.30	0.30	20.10	20.10	0.40	0.40
WS22	0.50-2.50 / Made Ground	1.98 - DRY	0.10	0.10	2.10	2.10	16.70	16.70	0.30	0.30
WS25	1.00-4.00 / Made Ground/Clay	3.75 - 4.00	0.10	0.10	7.00	7.00	11.40	11.40	0.40	0.40
WS26	0.50-1.50 / Made Ground	1.20 - DRY	0.10	0.10	4.30	4.30	9.90	9.90	0.30	0.30

***No gas bung present**

Appendix D: Bulk gas analyses

TEST REPORT

1015

GAS ANALYSIS

Customer: **Grontmij, Grove House, Mansion Gate Drive, Leeds, LS7 4DN**

Date Received: 23 September 2013 Date Sampled: 18 September 2013 **Report N° GA00211**

Date Analysed: 24 September 2013 Site: A63 Hull Project

SAMPLE REFERENCE	Analysis % V/V				
	Methane (CH_4)	Carbon Dioxide (CO_2)	Oxygen (O_2)	Carbon Monoxide (CO)	Nitrogen (N_2)
Method of Analysis	**1**	**1**	**2**	**1**	**4**
SBP02	<0.02	0.04	16.58	0.0001	81
BH28	8.0	4.8	9.96	0.0004	74
BH26	28	2.5	11.70	0.0008	55
BH27	8.7	0.42	18.62	0.0002	70
BH30	5.8	1.04	18.08	0.0002	73

Method of Analysis:-
1 Infra Red - GAS01
2 Paramagnetic - GAS01
4 G.C. with T.C.D. - GAS02

Customer Analytical Requirements	**Authorised by**
CH_4, CO_2, O_2, CO, N_2	Dan Rayson
Comment Box	

Authorised by: [redacted]

Analyst: Dan Rayson

Issue Date: 26 September 2013

ESG accepts no responsibility for the collection of any of the samples referred to in this report.

Dan Rayson, Principal Analyst
Direct Dial: 01 283 554461

Appendix E: Isotope analyses

R
C[14] RadioCarbon Dating
D

The Old Stables
East Lockinge
Wantage
Oxon, OX12 8QY

Report on Carbon-14 Measurements on Gas Sample

for

Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

1st November 2013

1.0 Samples

One sample of gas from was received September 2013 with request for the analysis of the ^{14}C and stable isotope ($\delta^{13}C$) content in the CH_4 component.

2.0 Measurement Procedure

2.1 Chemical Processing

Gas from the bags was passed through a processing line first to remove the CO_2 content and secondly to dry the gas of possible water vapour. Then, with added O_2 (obtained from dried, CO_2 free air) it was passed through a heated catalyst to combust the methane component after which the produced water and CO_2 were separately collected cryogenically. The sample produced very little CO_2 so was sent for Accelerator Mass Spectrometry measurement to the University of Groningen, The Netherlands.

3.0 Results and Comments

The results are given in the tables below as 'percent modern carbon' for the ^{14}C measurement (corrected for $\delta^{13}C$) and 'per mil' (‰) for the $\delta^{13}C$.

RCD References	Sample Reference	C-14 Activity (Percent Modern)	Stable Isotope Ratio $\delta^{13}C$ (‰)
RCD-8147	BH 30	68.3 ± 0.5	-64.8

On face value the result of 68.3 percent modern would indicate that the source of the gas is from material with an age of approximately 3000 years, such as peat or other organic material. However it could also indicate that the gas is derived from a mixture of sources, both ancient and modern, eg a simple two component mixture, one being of geological age with zero carbon-14 and the other being derived from material dating to the last twenty years would give a mixture of 48 percent ancient and 62 percent modern.

The stable isotope value is characteristic of biogenically produced CH_4 (see notes below) but is inconclusive in determining origin in this case.

4.0 Note on presentation of results and their interpretation

4.1 Carbon-14

^{14}C activity is expressed as 'Percent Modern', 100% being the internationally agreed undisturbed level at which ^{14}C is naturally produced in the atmosphere. It is, in theory, the level which all organic material achieves during its life as a plant or animal. After death this level slowly diminishes by the radioactive decay process, to half its original value after 5730 years (Half Life).

Two situations have upset the theoretical ^{14}C in the atmosphere situation in recent years (demonstrated in Figure 1). Firstly, pre-1950, the level is slightly below 100% at ~98% and this is attributable to the dilution of CO_2 in the atmosphere by the combustion of fossil fuels (zero ^{14}C) since the onset of the industrial revolution. Secondly, beginning in 1950, the atmospheric level increased rapidly to a peak approximately twice the normal level by 1963. This was due to the atmospheric nuclear weapons' testing programmes which took place between 1950 and 1963. Since then the levels have slowly fallen to around 110% by 2000. This decrease was due to absorption of the CO_2 into the greater CO_2 reservoir of the oceans, not radioactive decay.

At RCD the measurement precision attained is generally of the order of ± 1% (standard deviation). This means that the lowest measurement that can be quoted with confidence as a positive value has to be greater than 3 times the obtained standard deviation%. Levels measured below this are, therefore, reported as 'less than' values but might, in fact , be just below the indicated value or even as low as zero. For samples below 10% the precision of measurement may be significantly higher.

On a practical point concerning the collection and processing of gas samples it is recognised that with the ambient level of air at ~110% non-contamination of a truly zero is sometimes difficult to achieve and may need further testing (by replicate sampling) to confirm values even up to 10%.

4.2 Stable Isotope Ratio ($\delta^{13}C$)

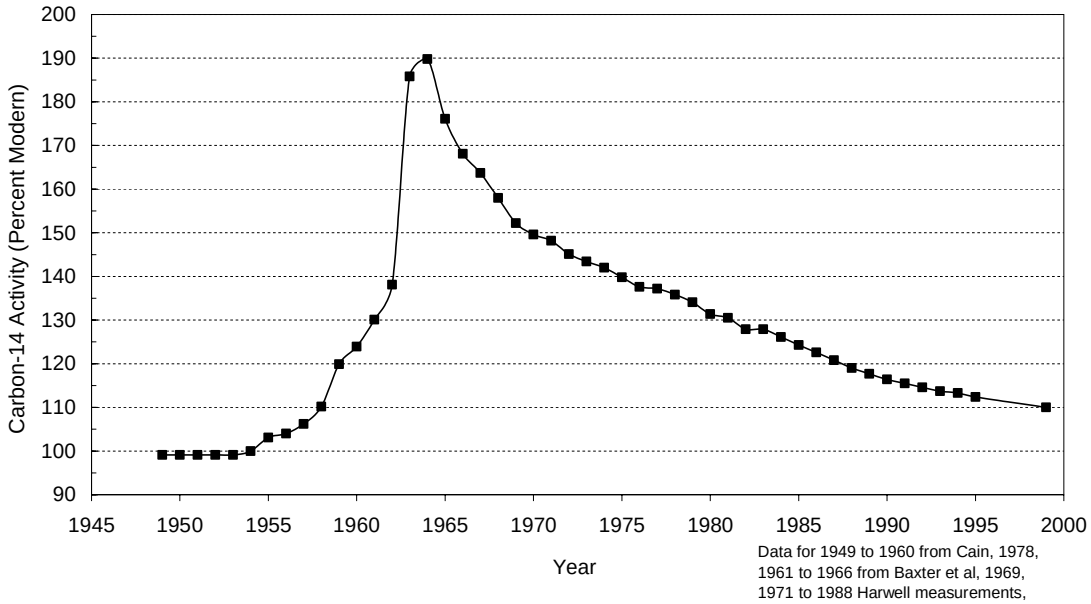
$\delta^{13}C$ is the third isotope measurement reported in the landfill gas results, it is given in terms of a difference (‰) in the $^{13}C/^{12}C$ ratio value of the gas compared with that in an internationally agreed standard. Negative values indicate a depletion in the relative ^{13}C content of the sample compared with that of the standard. $\delta^{13}C$ values range between around + 2‰ in natural geological materials (eg rock carbonate) to around -70‰ in biogenically produced CH_4, such as found in a typical landfill gas CH_4. $\delta^{13}C$ values of organic material, eg most terrestrial plants and trees, however, are around -25‰ with generally less than ± 5% variation from species to species (except for some C3 plants, not common in the UK, which centre around -12‰). In contrast biogenic CH_4 sources show wide variation sometimes in excess of ± 30% of the values given above.

In consequence, although the more positive $\delta^{13}Cs$ which crop up in landfill methanes might tend to suggest the presence of other less negative components it is virtually impossible to quantify the possible mixture from the $\delta^{13}C$ values alone.

R L Otlet/A J Walker
Radiocarbon Dating
The Old Stables, East Lockinge,
Wantage, Oxon OX12 8QY

1st November 2013

Figure 1: Carbon-14 in Natural Materials,
N Hemisphere, 1949 to 1999



Data for 1949 to 1960 from Cain, 1978,
1961 to 1966 from Baxter et al, 1969,
1971 to 1988 Harwell measurements,
1989 onwards RCD measurements.

Appendix F: Dissolved methane analyses

TEST REPORT

GAS ANALYSIS

Customer: Grontmij, Grove House, Mansion Gate Drive, Leeds, LS7 4DN

Report № 46898

Date received: 23rd September 2013 Date sampled: 18th September 2013
Date analysed: 24th September 2013 Site Name: A63 Hull Project

SAMPLE REFERENCE	ANALYSIS PPM V/V (DRY AIR BASIS)	AQUEOUS CONCENTRATION μgl^{-1}
	CH_4	Dissolved CH_4
BH 26	8944	10971
BH 27	18952	15094
BH 28	11046	13220
BH 30	19994	17707

The gases were extracted following a method based on 'The Determination of Methane and Other Hydrocarbon Gases' published by HMSO in 1988.

This method is not UKAS accredited but the derived values originate from a UKAS accredited analysis.

Method of Analysis: CH_4 - G.C. with F.I.D Analyst: D. Rayson

Customer Analytical Requirements:	**Requirements requested by:**	**Authorised by:**
Dissolved CH_4	Email	D. Rayson

Authorised by: [redacted]

D. Rayson – Principal Analyst

Issue Date: 27th September 2013

END OF REPORT

ESG accepts no responsibility for the collection of any of the samples referred to in this report.

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Appendix G: Assessment criteria

Appendix G Hierarchy of Generic Screening Criteria

G1. SOILS

G1.1 Overview of Generic Soil Screening Guideline Values

In order to put the chemical analysis results for the site into context, the data has initially been assessed in relation to several sets of legislative guidelines and other criteria, commonly used for the assessment of land contamination. This is undertaken in consideration of the conceptual model for the site which establishes the pathways and receptors which are applicable.

This approach constitutes a Generic Quantitative Risk Assessment (GQRA). A GQRA may typically involve a site investigation to gather information on the type, levels and extent of contamination present, with comparison against generic assessment criteria (GAC) for various site use scenarios and environmental receptors. Assessment criteria may also take account of specific exposure pathways.

The background and hierarchy to the assessment criteria which have been used to undertake a GQRA in this report are described below. Assessment criteria are now available covering different levels of risk for both planning and Part 2A assessments.

In order to reflect the current on-site use, all available soil for the site results have been screened against generic screening criteria for a commercial land use.

G1.2 Land Quality Management (LQM) GAC 2009

In July 2009 LQM published GAC for approximately 80 chemicals or groups of chemicals. These were generated using the updated CLEA framework and the CLEA software (v1.04). GAC were generated for the standard CLEA land uses using an SOM content of 1%, 2.5% and 6%. Transparent explanation of the GAC generation process including all chemical input parameters is provided within the LQM Report.

G1.3 The EIC/AGS/CL:AIRE GAC 2010

In January 2010 Contaminated Land: Applications in Real Environments (CL:AIRE) in association with The Environmental Industries Commission (EIC) and The Association of Geotechnical and Geoenvironmental Specialists (AGS) published GAC for 35 contaminants.

GACs for the 35 contaminants were generated using CLEA v1.06 for the three standard CLEA land uses (residential with consumption of homegrown produce, commercial and allotments) as well as residential without consumption of homegrown produce. The GACs have been generated using an SOM content of 1%, 2.5% and 6%.

The methodology and supporting information for the EIC/AGS GACs is fully documented in the report published by CL:AIRE.

G1.4 Category 4 Screening Levels 2014

In March 2014 CL:AIRE published Category 4 Screening Levels (C4SLs) for six contaminants in a project backed by DEFRA. These C4SLs describe low levels of harm which is in contrast to the minimal risk levels described by SGVs.

The underlying assumptions describing the exposure scenarios have been updated from those detailed in the SGV reports such as those describing inhalation rates in line with new research. In addition the toxicological data for the six contaminants was reviewed and updated where deemed appropriate.

C4SL have been primarily derived to provide screening criteria for Part 2A assessments. Soils with concentrations below the C4SL cannot be determined under Part 2A as contaminated land.

Currently C4SLs have been derived for: arsenic, benzene, benzo(a)pyrene, cadmium, chromium and lead at an SOM of 6%. They are published for the following land use scenarios:

- Residential (with and without homegrown produce)
- Allotments
- Commercial.

They also include two new land use scenarios both based on public open space (POS).

Sweco have produced Sweco C4SL (SC4SL) for the six contaminants at SOMs of 1% and 2.5%.

G1.5 LQM Suitable For Use Levels (S4UL) 2015

In January 2015 LQM published Suitable for Use Levels (S4ULs) for a total of 89 chemicals or groups of chemicals which represent a minimal level of risk (equivalent to risk levels used in the derivation of SGVs). These were generated using the updated scenarios found in the C4SL framework, revisions to chemical data and updated toxicological data where available and generated using the CLEA software (v1.06). Transparent explanation of the S4UL generation process including all chemical input parameters is provided within the LQM Report.

The new S4ULs have been published for five types of land use as follows;

- Residential (with and without consumption of homegrown produce)
- Allotments
- Commercial
- Public Open Space – Parks
- Public Open Space – Residential

All S4ULs are generated based on a standard soil type defined as a sandy loam with a soil organic matter (SOM) content of 1%, 2.5% and 6%.

G1.6 Sweco Suitable For Use Criteria (SS4UL)

A series of generic assessment criteria have been generated by Sweco using CLEA (v1.07) for the standard land uses as defined by the CLEA framework for all contaminants for which SGV and associated TOX reports have been published.

The SOM parameter is used to predict the level of sorption that will occur between the contaminant and soil particles. It affects the potential mobility of contaminants and therefore influences the predicted exposure by humans to a particular contaminant. Amending the SOM is therefore reflected in either an increase or decrease of the generic screening criteria.

The use of generic assessment criteria generated using SOM concentrations of 1% and 2.5% should be considered where site specific assessment (i.e. analytical results for fraction / total organic carbon) has identified soil conditions that are better characterised by an organic content which is below the 6% assumed in the published SGVs.

G1.7 Hierarchy of Generic Assessment Criteria

In all cases, a GAC is only used where the conceptual model for the site indicates that it would be appropriate to use criteria derived for the five standard land uses.

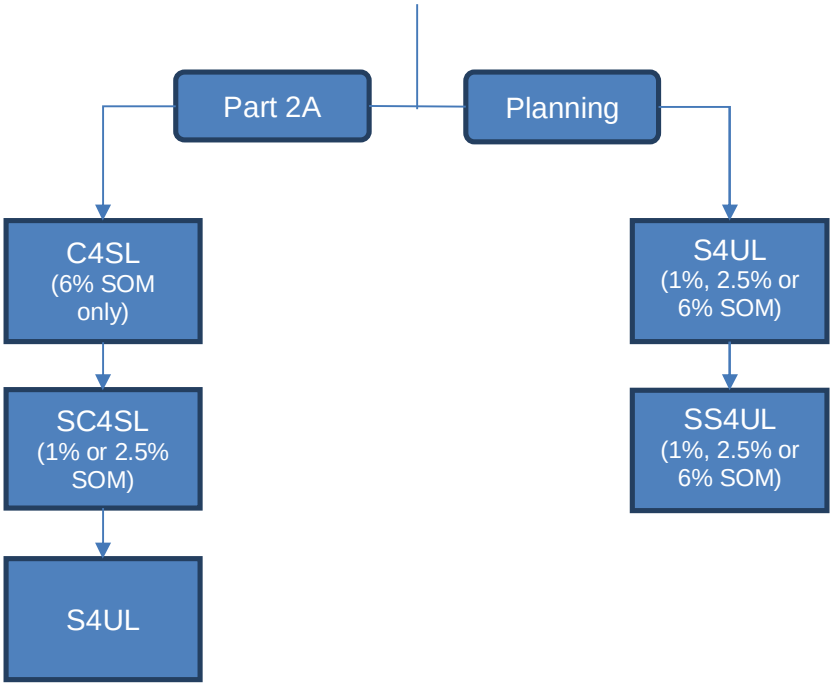
The C4SL for benzo(a)pyrene uses a surrogate for all PAHs and similarly the S4UL also have benzo(a)pyrene as a surrogate for coal tar which can be used as an alternative approach to screening against individual PAHs. The S4ULs also have assessment criteria for individual PAHs and Sweco have adopted the approach of screening against both the surrogate and individual PAHs for completeness.

When deriving the assessment criteria some criteria are derived at a concentration greater than the chemicals' theoretical solubility limit. The S4ULs are presented in the LQM 2015 report with both the solubility limited value and the human health risk criteria. These solubility limited criteria are indicative of the presence of free product and do not present a concentration where human health risk may necessary occur. In these cases Sweco have taken the human health derived criteria as the assessment criteria with the exception of where free product is present.

Similarly when the vapour saturation limit has been exceeded Sweco have taken the human health derived value as the assessment criteria rather than the vapour saturation limited criteria.

The selection of the appropriate criteria for the assessment is made based on both the end use and the regime (planning or Part 2A) under which the assessment is designed to perform. The choice of criteria are shown in Figure 1.

Figure 1: GQRA Assessment Criteria Choice Flowchart



Notes:

Category 4 Screening Levels (C4SLs)
The lead C4SL is currently used for both Part 2A and Planning scenarios. The remaining five C4SLs are used for a Part 2A assessment approach. C4SLs have been produced for 6% SOM only.

Sweco Category 4 Screening Levels (SC4SLs)
Sweco calculated C4SL for the six contaminants at 1% and 2.5% SOM to be used where the use of the C4SL for 6% SOM would not be appropriate.

Suitable for Use Levels (S4ULs)
These are used where S4ULs have been published. Based on recorded site conditions the most appropriate S4ULs based on an SOM of 1%, 2.5% or 6% are selected.

Sweco Generic Assessment Criteria (SS4ULs)
For contaminants not included in the S4ULs or C4SLs the SS4ULS will be utilised.

Based on recorded site conditions the most appropriate Sweco SS4UL based on an SOM of 1%, 2.5% or 6% are selected.

Total Petroleum Hydrocarbons (TPH)

The TPH chemical analysis completed as part of the soil sampling exercise has been reported both fully speciated between aliphatic and aromatic fractions and as carbon band ranges, for example TPH $>C_{10}$-C_{20}, inclusive of both aliphatic and aromatic compounds. The most conservative assessment criteria within the relevant carbon band range for either aliphatic or aromatic has been selected from the available GAC as the assessment criteria for each reported TPH carbon band.

Total Mercury

The concentrations of total mercury in soils reported by the laboratory have been screened against assessment criteria for inorganic mercury. As stated in the mercury SGV report, total mercury concentrations can normally be compared with the inorganic mercury SGV because the equilibrium concentrations of elemental and methyl mercury compounds is likely to be very low.

Cyanide

The assessment criteria for free and complex cyanide has been derived for an acute exposure scenario based on a single dose of soil ingested by a three year old female child. The criteria have been derived outside of the CLEA model utilising data and methodology produced by the Environment Agency TOX reports and CLEA regime.

The TDI has been sourced from the DEFRA and Environment Agency R &D TOX 5 report on inorganic cyanide.

The three year old child has been chosen as the receptor as this is taken to be the youngest age a child will be able to be independent from their parents i.e. mobile enough to leave their protection and therefore access and consume a source of cyanide. The body weight used is sourced from Technical Review 1, Environment Agency, 2009 and is the mean body weight for a three year old female child.

A single 5g dose has been used which approximates to a teaspoon of soil.
These criteria are used in both the Part 2A and planning assessments.

G2. SOIL LEACHABILITY AND GROUNDWATER

Leachability analysis provides an indication of the potential for contaminants to be mobilised from soil through leaching and impact groundwater quality beneath the site. Two types of assessment have been undertaken on the groundwater and leachability analysis results, firstly relating to the potential impact on groundwater quality and secondly the potential impact on surface water quality.

The impact on groundwater quality has been assessed through the use of UK Drinking Water Standards (DWS) which are documented in The Water Supply (Water Quality) Regulations 2010. Where an appropriate UK DWS is not available, the World Health Organisation (WHO) guidelines for drinking water quality (2011) have been used.

Potential impacts on surface water quality which may occur through a linkage between groundwater on the site and a nearby surface water course are assessed through comparison to the environmental quality standards (EQS) presented in parts 1, 2 and 3 of Schedule 3 of The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015. In the absence of these numbers, the 2004 EQS criteria have been used.

G3. REFERENCES

- Science Report Final SC050021/SR2. Human Health Toxicological Assessment of Contaminants in Soil. Environment Agency. January 2009.
- Science Report SC050021/SR3. Updated Technical Background to the CLEA Model. Environment Agency. January 2009.
- Science Report SC050021/SR4. CLEA Software (Version 1.05) Handbook, Environment Agency. September 2009. NB this document was not re-published for CLEA V1.06.
- Science Report SC050021/SR7. Compilation of Data for Priority Organic Pollutants for Derivation of Soil Guideline Values. Environment Agency, November 2008.
- SC050021/Final Technical review 1. A Review of Body Weight and Height Data used within the Contaminated Land Exposure Assessment Model (CLEA). Environment Agency. January 2009.
- Science report: SC050021. Using Soil Guideline Values. / SGV Introduction. Environment Agency, March 2009.
- The LQM/CIEH Generic Assessment Criteria for Human Health Risk Assessment (2nd Edition). Land Quality Press, Nottingham. Nathanail, C.P., McCaffrey, C., Ashmore, M.H., Cheng, Y.Y., Gillett, A., R. & Scott, D. 2009.
- The LQM/CIEH S4ULs for Human Health Risk Assessment. Land Quality Press, Nottingham. Nathanail, C.P., McCaffrey, C., Gillet, A.G., Ogden, R.C. and Nathanail, J.F. 2015.
- CL:AIRE in association with AGS and EIC. The Soil Generic Assessment Criteria for Human Health Risk Assessment. January 2010.
- CL:AIRE. SP1010: Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination. Final Project Report. September 2014.
- DEFRA. SP1010: Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination – Policy Companion Document. December 2014.
- Water Supply (Water Quality) Regulations. 2010.
- World Health Organisation. Guidelines for Drinking Water Quality. Fourth Edition. 2011.
- The Water Framework Directive (Standards and Classification) Directions (England and Wales) 2015.
- Annex G Environmental Quality Standards (EQS) List. October 2004.

Glossary

- SGV - Soil Guideline Value published by DEFRA in accordance with the CLEA framework published in August 2009 for an SOM of 6% based on minimal level of risk.
- Sweco GAC - Assessment criteria generated by Sweco for contaminants with SGV at 1% and 2.5% SOM.
- LQM GAC - 2009 assessment criteria developed by LQM.
- EIC/AGS/CL:AIRE GAC - 2010 assessment criteria.
- C4SL - 2014 assessment criteria based on a low level of harm at 6% SOM.
- SC4SL - Sweco assessment criteria for contaminants with a C4SL at 1% and 2.5% SOM.
- S4UL - LQM 2015 updates in line with C4SL but still minimal risk levels.
- SS4UL - Sweco assessment criteria based on S4UL methodology using other readily available contaminant toxicological data such as that from EIC 2010 work.
- Free product – An organic contaminant such as PAHs present in concentrations above the saturation point of the soil or solubility concentration in water resulting in a visible product in situ.

Appendix H: Generic screening results

Appendix H1: Soil (human health)

Appendix H2a: Leachability results (controlled waters – DWS)

Appendix H2b: Leachability results (controlled waters – EQS)

Appendix H3a: Groundwater (controlled waters – DWS)

Appendix H3b: Groundwater (controlled waters – EQS)

Appendix H4: Surface Water (controlled waters – EQS)

Appendix H1: Soil (human health)

Grontmij Limited

Multiplier:	1 x"<"	Highways Agency | A63 - Castle Street SOILS (112630)																							
	Strata	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground
	Observed Contamination																								
	Sample Description	Sandy Soil	Clay	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Sandy Soil	Clay	Clay	Sandy Soil	Fill	Clay	Sandy Soil	Topsoil	Sand	Clay	Sand	Sand	Clay	Clay	Clay	
	Date -	05-Jul-13	08-Jul-13	08-Jul-13	08-Jul-13	08-Jul-13	09-Jul-13	17-Jul-13	17-Jul-13	17-Jul-13	17-Jul-13	17-Jul-13	17-Jul-13	16-Jul-13	16-Jul-13	16-Jul-13	16-Jul-13	18-Jul-13	19-Jul-13	19-Jul-13	22-Jul-13	24-Jul-13	24-Jul-13	24-Jul-13	
	Sample ID -	BH35	BH35	SCPT25	BH36	BH36	SCPT17	BH19A	BH19A	BH39	BH39	BH39	SCPT20	SCPT08	BH39	SCPT11	SCPT15	BH33	SCPT09	SCPT04	SCPT06	BH11	BH37	BH37	
	Depth m	0.5	1.8	1.1	0.45	1	0.5	1.05	2.3	0.5	3	6.5	0.5	0.5	7.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.1	2.5	
Screening Level	**Substance** **Units**																								
-	Moisture Content @ 105C	24	32	20	7.9	22	16	26	29	4	23	25	14	13	27	11	2.6	8.3	19	12	12	22	9.9	29	
-	Moisture Content @ 40C	22	26	17	9.2	20	14	21	32	4.1	17	25	12	16	23	12	4.5	12	14	13	10	21	9.6	27	
-																									
-	Asbestos	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	**N.D.**	**N.D.**	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Chrysotile	N.D.	N.D.	N.D.	N.D.	
0.001	Asbestos Quantification %																			<0.001					
-	pH	8.7	7.8	7.9	7.6	7.9	8.5	9.9	7.7	8.7	8.4	8.9	8.3	8.1	9.1	9	8.1	9.5	8.2	8.8	8.3	8.2	7.2	8.9	
-	Fraction Organic Carbon (FOC) Unitless		-	-	-	-	0.02	-	-	-	-	0.014	-	-	0.0062	0.012	0.029	-	0.013	0.023	-	0.0075	-	0.015	
-																									
640	Arsenic mg/kg	18	20	18	28	13	23	17	11	9	12	12	17	22	11	15	25	18	10	22	23	9	16	11	
192000	Boron mg/kg	<1	<1	<1	2	29	3	<1	1	<1	<1	<1	<1	<1	<1	<1	6	<1	<1	<1	<1	<1	<1	<1	
230	Cadmium mg/kg	<1	<1	<1	3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
-	Chromium (total) mg/kg	11	52	39	33	41	17	21	29	8	23	24	30	17	23	30	34	32	27	19	18	24	23	25	
8840	Chromium (III) mg/kg	11	52	39	33	41	17	21	29	8	23	24	30	17	23	30	34	32	27	19	19	24	23	25	
35	Chromium (IV) mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
71700	Copper mg/kg	47	31	42	2900	150	49	40	26	15	20	14	57	32	13	38	140	270	26	53	55	14	56	18	
750	Lead mg/kg	250	100	260	**970**	60	**760**	300	43	45	64	20	360	**1700**	19	160	**2900**	620	39	**1700**	**1000**	16	160	56	
11	Mercury mg/kg	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	
1800	Nickel mg/kg	12	34	29	58	30	12	15	27	9	21	23	21	13	22	25	24	25	26	16	14	23	20	24	
13000	Selenium mg/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
665000	Zinc mg/kg	65	110	83	1900	160	91	96	110	120	86	62	170	180	59	110	460	310	100	260	230	63	180	65	
-																									
20	Total cyanide mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
20	Free cyanide mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
-	Total sulphate mg/kg	0.29	0.15	0.14	0.2	0.57	0.29	0.28	1.4	0.17	0.22	0.89	0.37	0.28	0.67	0.11	0.19	0.33	0.06	0.25	0.28	0.05	0.15	0.57	
1400	Phenol mg/kg	<0.01	<0.01	<0.01	0.22	<0.01	0.77	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.13	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	
-																									
141	Acenaphthene mg/kg	<0.1	<0.1	<0.1	0.6	<0.1	0.4	0.1	<0.1	<0.1	<0.1	<0.1	1.6	<0.1	<0.1	<0.1	<0.1	7.1	<0.1	0.6	0.9	<0.1	<0.1	<0.1	
212	Acenaphthylene mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.7	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	0.7	<0.1	<0.1	<0.1	
540000	Anthracene mg/kg	<0.1	<0.1	<0.1	1.5	<0.1	0.7	0.3	<0.1	<0.1	0.1	<0.1	3.9	0.1	<0.1	0.2	<0.1	17	<0.1	0.6	3.7	<0.1	0.1	<0.1	
95	Benzo(a)anthracene mg/kg	<0.1	<0.1	<0.1	3.2	<0.1	2	0.5	<0.1	<0.1	0.3	<0.1	15	0.6	<0.1	0.9	0.5	30	<0.1	2.3	7.3	<0.1	0.7	<0.1	
14	Benzo(a)pyrene mg/kg	<0.1	<0.1	<0.1	2.1	<0.1	1.5	0.5	<0.1	<0.1	0.2	<0.1	11	0.5	<0.1	0.8	0.5	**24**	<0.1	2.1	4.9	<0.1	0.7	<0.1	
100	Benzo(b)fluoranthene mg/kg	<0.1	<0.1	<0.1	2.1	<0.1	1.5	0.6	<0.1	<0.1	0.2	<0.1	11	0.4	<0.1	0.6	0.4	25	<0.1	1.7	4.6	<0.1	0.6	<0.1	
660	Benzo(ghi)perylene mg/kg	<0.1	<0.1	<0.1	1.4	<0.1	0.9	0.3	<0.1	<0.1	0.1	<0.1	5.9	0.6	<0.1	0.4	0.5	11	<0.1	1.2	2.6	<0.1	0.4	<0.1	
140	Benzo(k)fluoranthene mg/kg	<0.1	<0.1	<0.1	1.8	<0.1	1.6	0.4	<0.1	<0.1	0.3	<0.1	11	0.3	<0.1	1	0.4	20	<0.1	1.9	4.5	<0.1	0.5	<0.1	
140	Chrysene mg/kg	<0.1	<0.1	<0.1	3	<0.1	1.9	0.6	<0.1	<0.1	0.3	<0.1	14	0.7	<0.1	0.9	0.5	29	<0.1	2.7	6.8	<0.1	0.8	<0.1	
13	Dibenzo(ah)anthracene mg/kg	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.2	<0.1	<0.1	0.1	0.1	3.3	<0.1	0.4	1	<0.1	0.1	<0.1	
23000	Fluoranthene mg/kg	<0.1	<0.1	<0.1	6.6	<0.1	5	1.4	<0.1	0.2	0.9	<0.1	30	1.1	<0.1	2.1	0.7	110	<0.1	4.9	17	<0.1	1.2	<0.1	
69000	Fluorene mg/kg	<0.1	<0.1	<0.1	0.5	<0.1	0.3	0.2	<0.1	<0.1	<0.1	<0.1	1.6	<0.1	<0.1	<0.1	<0.1	7	<0.1	0.4	1.5	<0.1	<0.1	<0.1	
61	Indeno(1,2,3cd)pyrene mg/kg	<0.1	<0.1	<0.1	1.1	<0.1	0.7	0.3	<0.1	<0.1	<0.1	<0.1	6	0.4	<0.1	0.3	0.3	9.5	<0.1	1	2.2	<0.1	0.3	<0.1	
183	Naphthalene mg/kg	<0.1	<0.1	<0.1	0.3	<0.1	0.5	0.4	<0.1	<0.1	0.1	<0.1	1.1	<0.1	<0.1	0.1	<0.1	3.2	<0.1	1.2	1.5	<0.1	0.2	<0.1	
22000	Phenanthrene mg/kg	<0.1	<0.1	<0.1	5.6	<0.1	3.3	1.1	<0.1	0.1	0.6	<0.1	13	0.7	<0.1	0.9	0.4	74	<0.1	3.5	16	<0.1	0.6	<0.1	
54000	Pyrene mg/kg	<0.1	<0.1	<0.1	5.5	<0.1	4.2	1.1	<0.1	0.2	0.7	<0.1	27	1	<0.1	1.9	0.6	88	<0.1	4.3	13	<0.1	1.1	<0.1	
-	Polyaromatic Hydrocarbons (Total) mg/kg	<0.1	<0.1	<0.1	36	<0.1	25	7.8	<0.1	0.5	3.8	<0.1	160	6.4	<0.1	10	4.9	460	<0.1	30	88	<0.1	7.3	<0.1	
-																									
190	TPH (C8-C10) mg/kg	<10				<1				<1		<1		<1	<1		<1	<10			<1		<1		
118	TPH (C10-C12) mg/kg	<10				<1				<1		<1		<1	<1		<1	<10			<1		<1		
59	TPH (C12-C16) mg/kg	<10				3				<1		<1		<1	<1		<1	**61**			3		2		
28000	TPH (C16-C21) mg/kg	<10				<1				1		<1		<1	<1		<1	300			10		7		
28000	TPH (C21-C35) mg/kg	<10				2				4		<1		<1	<1		<1	890			20		55		
28000	TPH (C35-C40) mg/kg	<10				<1				<1		<1		<1	<1		<1	170			3		6		
-	TPH (C8 - C40) mg/kg	<10				5				5		<1		<1	<1		<1	1421			36		64		
-																									
558	TPH Aliphatics >C5-C6 mg/kg		<0.100	<0.100	<0.100		<0.100	<0.100	<0.100		<0.100		<0.100		<0.100			<0.100	<0.300		<0.100		<0.200	
322	TPH Aliphatics >C6-C8 mg/kg		<0.10	<0.10	<0.10		<0.10	<0.10	<0.10		<0.10		<0.10		<0.10			<0.10	<0.30		<0.10		<0.20	
190	TPH Aliphatics >C8-C10 mg/kg		<0.10	<0.10	<0.10		<0.10	<0.10	<0.10		2.7		<0.10		<0.10			<0.10	<0.30		<0.10		<0.20	
118	TPH Aliphatics >C10-C12 mg/kg		<1	<1	<1		<1	<1	<1		<1		<1		<1			<1	<10		<1		<1	
59	TPH Aliphatics >C12-C16 mg/kg		<2	<2	<2		<2	<2	<2		<2		10		<2			<2	<10		<2		<2	
-	TPH Aliphatics >C16-C21 mg/kg		<1	1	9		2	<1	<1		<1		24		<1			<1	<10		<1		<1	
-	TPH Aliphatics >C21-C35 mg/kg		<4	13	41		6	<4	<4		8		130		<4			<4	<10		<4		<4	
1800000	TPH Aliphatics >C16-C35 mg/kg		<5	14	50		8	<5	<5		<9		154		<5			<5	<20		<5		<5	
1800000	TPH Aliphatics >C35-C44 mg/kg		<1	4	5		<1	<1	<1		1		34		<1			<1	<10		<1		<1	
-	TPH Total Aliphatics (C5-C44) mg/kg		**N.D.**	18	55		8	**N.D.**	**N.D.**		12		200		1			**N.D.**	**N.D.**		**N.D.**		**N.D.**	
-																									
2260	TPH Aromatics >C6-C7 mg/kg		<0.100	<0.100	<0.100		<0.100	<0.10	<0.10		<0.10		<0.10		<0.100			<0.10	<0.30		<0.10		<0.20	
1920	TPH Aromatics >C7-C8 mg/kg		<0.100	<0.100	<0.100		<0.100	<0.10	<0.10		<0.10		<0.10		<0.100			<0.10	<0.30		<0.10		<0.20	
1500	TPH Aromatics >C8-C10 mg/kg		<0.10	<0.10	<0.10		<0.10	<0.10	<0.10		1.5		<0.10		<0.10			<0.10	<0.30		<0.10		<0.20	
899	TPH Aromatics >C10-C12 mg/kg		<1	<1	<1		<1	<1	<1		<1		<1		<1			<1	<10		<1		<1	
37000	TPH Aromatics >C12-C16 mg/kg		<1	<1	4		4	<1	<1		<1		12		<1			<1	<10		<1		<1	
28000	TPH Aromatics >C16-C21 mg/kg		<1	<1	32		26	1	<1		2		84		1			<1	44		<1		<1	
28000	TPH Aromatics >C21-C35 mg/kg		<1	11	78		82	4	<1		5		270		4			<1	170		<1		<1	
28000	TPH Aromatics >C35-C44 mg/kg		<1	5	16		22	<1	<1		1		59		1			<1	<10		<1		<1	
-	Total Aromatics (C6-C44) mg/kg		**N.D.**	16	130		130	5	**N.D.**		9.5		430		5			**N.D.**	210		**N.D.**		0	
-	Total Aromatics and Aliphatics mg/kg		**N.D.**	34	190		140	5	**N.D.**		21		630		6			**N.D.**	210		**N.D.**		**N.D.**	
-																									
50	Benzene mg/kg		<0.010	<0.010	<0.010		<0.010	<0.010	<0.010		<0.010		<0.010		<0.010			<0.010	<0.030		<0.010		<0.020	
1900	Toluene mg/kg		<0.010	<0.010	<0.010		<0.010	<0.010	<0.010		<0.010		<0.010		<0.010			<0.010	<0.030		<0.010		<0.020	
1200	Ethylbenzene mg/kg		<0.010	<0.010	<0.010		<0.010	<0.010	<0.010		<0.010		<0.010		<0.010			<0.010	<0.030		<0.010		<0.020	
13000	Methyl tert-Butyl Ether mg/kg		<0.010	<0.010	<0.010		<0.010	<0.010	<0.010		<0.010		<0.010		<0.010			<0.010	<0.030		<0.010		<0.020	
1100	Ortho-Xylene mg/kg		<0.010	<0.010	<0.010		<0.010	<0.010	<0.010		0.029		<0.010		<0.010			<0.010	<0.030		<0.010		<0.020	
1400	Meta/Para-Xylene mg/kg		<0.010	<0.010	<0.010		<0.010	<0.010	<0.010		<0.010		<0.010		<0.010			<0.010	<0.030		<0.010		<0.020	
-																									
-	PCB 101 mg/kg							<0.00005					<0.00050		<0.00005										

Grontmij Limited

	Date	-	05-Jul-13	08-Jul-13	08-Jul-13	08-Jul-13	08-Jul-13	09-Jul-13	17-Jul-13	17-Jul-13	17-Jul-13	17-Jul-13	17-Jul-13	17-Jul-13	16-Jul-13	16-Jul-13	16-Jul-13	16-Jul-13	18-Jul-13	19-Jul-13	19-Jul-13	22-Jul-13	24-Jul-13	24-Jul-13	24-Jul-13
	Sample ID	-	BH35	BH35	SCPT25	BH36	BH36	SCPT17	BH19A	BH19A	BH39	BH39	BH39	SCPT20	SCPT08	BH39	SCPT11	SCPT15	BH33	SCPT09	SCPT04	SCPT06	BH11	BH37	BH37
	Depth	m	0.5	1.8	1.1	0.45	1	0.5	1.05	2.3	0.5	3	6.5	0.5	0.5	7.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.1	2.5
-	PCB 118	mg/kg							<0.00005					<0.00050			<0.00005								
-	PCB 138	mg/kg							<0.00005					<0.00050			0.00008								
-	PCB 153	mg/kg							<0.00005					0.0007			0.00007								
-	PCB 180	mg/kg							<0.00005					0.0008			0.00011								
-	PCB 28	mg/kg							<0.00005					<0.00050			<0.00005								
-	PCB 52	mg/kg							<0.00005					<0.00050			<0.00005								
-	Sum of PCBs	mg/kg							<0.00035					<0.0040			<0.00046								
-																									
260	1,1,1,2-Tetrachloroethane	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
1400	1,1,1-Trichloroethane	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
580	1,1,2,2-Tetrachloroethane	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
190	1,1,2-Trichloroethane	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
450	1,1-Dichloroethane	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
46	1,1-Dichloroethylene	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
-	1,1-Dichloro-1-propene	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
-	1,2,3-Trichloropropane	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
99	1,2,4-Trimethylbenzene	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
-	1,2-Dibromoethane	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
1370	1,2-Dichlorobenzene	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
1	1,2-Dichloroethane	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
5.9	1,2-Dichloropropane	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
-	1,3,5-Trimethylbenzene	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
77	1,3-Dichlorobenzene	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
-	1,3-Dichloropropane	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
540	1,4-Dichlorobenzene	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
-	2,2-Dichloropropane	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
-	2-Chlorotoluene	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
-	4-Chlorotoluene	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
50	Benzene	mg/kg			<0.010	<0.010			<0.010	<0.010				<0.010			<0.010								
220	Bromobenzene	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
-	Bromochloromethane	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
3.7	Bromodichloromethane	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
1500	Bromoform	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
-	Bromomethane	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
6.6	Carbon tetrachloride	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
130	Chlorobenzene	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
-	Chlorodibromomethane	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
1300	Chloroethane	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
190	Chloroform	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
1.2	Chloromethane	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
24	cis-1,2-Dichloroethene	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
-	cis-1,3-Dichloropropene	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
-	Dibromomethane	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
-	Dichlorodifluoromethane	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
360	Dichloromethane	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
1200	Ethylbenzene	mg/kg			<0.010	<0.010			<0.010	<0.010				<0.010			<0.010								
950	Isopropylbenzene	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
1400	M/p-Xylene	mg/kg			<0.010	<0.010			<0.010	<0.010				<0.010			<0.010								
981	n-Propylbenzene	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
1100	o-Xylene	mg/kg			<0.010	<0.010			<0.010	<0.010				<0.010			<0.010								
-	p-Isopropyltoluene	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
-	Sec-Butylbenzene	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
1440	Styrene	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
-	Tert-Butylbenzene	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
290	Tetrachloroethylene	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
1900	Toluene	mg/kg			<0.010	<0.010			<0.010	<0.010				<0.010			<0.010								
40	trans-1,2-Dichloroethylene	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
-	trans-1,3-Dichloropropene	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
25	Trichloroethylene (TCE)	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
-	Trichlorofluoromethane	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
0.081	Vinyl Chloride	mg/kg			<0.050	<0.050			<0.050	<0.050				<0.050			<0.050								
-																									
560	1,2,4-Trichlorobenzene	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
1370	1,2-Dichlorobenzene	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
77	1,3-Dichlorobenzene	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
540	1,4-Dichlorobenzene	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
4000	2,4,5-Trichlorophenol	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
4000	2,4,6-Trichlorophenol	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
4000	2,4-Dichlorophenol	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
3140	2,4,-Dimethylphenol	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
-	2,4,-Dinitrophenol	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
299	2,4-Dinitrotoluene	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
622	2,6-Dinitrotoluene	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
280	2-Chloronaphthalene	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
4000	2-Chlorophenol	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
-	2-Methylphenol	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
-	2-Methyl naphthalene	mg/kg			<0.1	1			0.2	<0.1				0.4			<0.1								
-	2-Nitroaniline	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
-	2-Nitrophenol	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
-	3-Nitroaniline	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
-	3/4-Methylphenol	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
-	4-Bromophenyl phenyl ether	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
4000	4-Chloro, 3-methylphenol	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
-	4-Chloroaniline	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
-	4-Chlorophenyl phenylether	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
-	4-Nitroaniline	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								

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	Date	-	05-Jul-13	08-Jul-13	08-Jul-13	08-Jul-13	08-Jul-13	09-Jul-13	17-Jul-13	17-Jul-13	17-Jul-13	17-Jul-13	17-Jul-13	17-Jul-13	16-Jul-13	16-Jul-13	16-Jul-13	16-Jul-13	18-Jul-13	19-Jul-13	19-Jul-13	22-Jul-13	24-Jul-13	24-Jul-13	24-Jul-13
	Sample ID	-	BH35	BH35	SCPT25	BH36	BH36	SCPT17	BH19A	BH19A	BH39	BH39	BH39	SCPT20	SCPT08	BH39	SCPT11	SCPT15	BH33	SCPT09	SCPT04	SCPT06	BH11	BH37	BH37
	Depth	m	0.5	1.8	1.1	0.45	1	0.5	1.05	2.3	0.5	3	6.5	0.5	0.5	7.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.1	2.5
-	4-Nitrophenol	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
141	Acenaphthene	mg/kg			<0.1	0.6			0.1	<0.1				1.6			<0.1								
212	Acenaphthylene	mg/kg			<0.1	<0.1			<0.1	<0.1				0.7			<0.1								
540000	Anthracene	mg/kg			<0.1	1.5			0.3	<0.1				3.9			0.2								
-	Azobenzene	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
95	Benzo(a)anthracene	mg/kg			<0.1	3.2			0.5	<0.1				15			0.9								
14	Benzo(a)pyrene	mg/kg			<0.1	2.1			0.5	<0.1				11			0.8								
100	Benzo(b/k)fluoranthene	mg/kg			<0.1	17			0.9	<0.1				21			1.5								
660	Benzo(ghi)perylene	mg/kg			<0.1	1.4			0.3	<0.1				5.9			0.4								
-	Bis(2-chloroethoxy) methane	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
-	Bis(2-chloroethyl)ether	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
-	Bis(2-chloroisopropyl) ether	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
21.6	Bis(2-ethylhexyl) phthalate	mg/kg			<0.1	0.5			2.8	<0.1				0.7			<0.1								
64.7	Butyl benzyl phthalate	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
-	Carbazole	mg/kg			<0.1	<0.1			<0.1	<0.1				0.7			<0.1								
140	Chrysene	mg/kg			<0.1	3			0.6	<0.1				14			0.9								
11.4	Di-n-butyl phthalate	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
81.5	Di-n-octyl phthalate	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
13	Dibenz(ah)anthracene	mg/kg			<0.1	0.3			<0.1	<0.1				2.2			0.1								
-	Dibenzofuran	mg/kg			<0.1	2			0.2	<0.1				1			<0.1								
29.1	Diethyl phthalate	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
-	Dimethyl phthalate	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
23000	Fluoranthene	mg/kg			<0.1	6.6			1.4	<0.1				30			2.1								
69000	Fluorene	mg/kg			<0.1	0.5			0.2	<0.1				1.6			<0.1								
53	Hexachlorobenzene	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
69	Hexachlorobutadiene	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
-	Hexachlorocyclopentadiene	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
20.1	Hexachloroethane	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
61	Indeno(1,2,3,cd)pyrene	mg/kg			<0.1	1.1			0.3	<0.1				6			0.3								
-	Isophorone	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
183	Naphthalene	mg/kg			<0.1	0.3			0.4	<0.1				1.1			0.1								
-	Nitrobenzene	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
1300	Pentachlorophenol	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
22000	Phenanthrene	mg/kg			<0.1	5.6			1.1	<0.1				13			0.9								
1400	Phenol	mg/kg			<0.1	<0.1			<0.1	<0.1				<0.1			<0.1								
54000	Pyrene	mg/kg			<0.1	5.5			1.1	<0.1				27			1.9								

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Strata	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground
Observed Contamination																											
Sample Description	Clay	Clay	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Sandy Soil	Clay	Sandy Soil	Clay	Clay	Clay	Clay	Clay	Clay	Sandy Soil	Sandy Soil	Sandy Soil
Date	24-Jul-13	24-Jul-13	24-Jul-13	24-Jul-13	24-Jul-13	24-Jul-13	24-Jul-13	24-Jul-13	30-Jul-13	30-Jul-13	29-Jul-13	30-Jul-13	30-Jul-13	30-Jul-13	30-Jul-13	30-Jul-13	31-Jul-13	31-Jul-13	02-Aug-13	2-Aug-13	2-Aug-13	2-Aug-13	2-Aug-13	2-Aug-13	6-Aug-13	6-Aug-13
Sample ID	BH37	BH22	BH22	SCPT02	BH04	BH04	BH02	BH02	BH40A	BH40A	BH40A	BH03	MC03	SCPT1	SPTC3c	BH01	SCPT5B	BH04	BH07	BH07	BH03	BH38	BH38	BH38	SCPT24	SCPT24
Depth	4	0.5	1	0.5	0.5	1	0.5	1	6.7	2.7	0.8	0.7	0.5	1	0.2	1	0.5	1.6	2.1	0.5	1.5	2	8.5	0.5	1	0.5
Substance																											
Moisture Content @ 105C	29	11	22	15	12	20	9.6	28	25	30	29	25	25	23	15	24	11	22	26	17	26	23	24	14	18	13
Moisture Content @ 40C	25	12	22	14	11	18	8.6	24	24	28	26	23	24	22	15	24	14	21	25	17	25	22	25	13	16	15
Asbestos	**N.D.**	**N.D.**	**N.D.**	N.D.	N.D.	**N.D.**	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	**N.D.**	N.D.	N.D.	**N.D.**	N.D.	N.D.	N.D.	N.D.	N.D.
Asbestos Quantification																											
pH	8.3	7.7	8.4	8.3	8.3	8.1	8	8.4	8.3	8.2	8.2	8	7.8	8	8.2	7.9	8.2	8.1	8.3	8.5	8.3	8.1	8.2	8.6	7.7	8
Fraction Organic Carbon (FOC)	0.099	0.12	-	-	-	-	-	-		0.022				0.01		0.016			-	0.014	-	0.01	-	-	-	0.11
Arsenic	11	35	27	27	12	12	26	16	12	10	11	19	21	15	17	15	19	12	12	11	18	8	10	20	14	17
Boron	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium (total)	17	23	16	27	21	37	32	39	23	17	20	36	38	34	24	37	27	22	25	33	54	18	19	16	21	31
Chromium (III)	27	23	16	27	21	37	32	39	23	17	20	36	38	34	24	37	27	22	25	33	54	18	19	16	21	31
Chromium (IV)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper	35	1100	210	89	29	19	330	28	15	13	13	37	22	18	40	22	87	15	13	30	79	10	12	23	39	68
Lead	84	670	300	**1800**	240	45	**770**	79	29	24	16	43	38	30	220	45	**1200**	33	15	64	40	12	26	180	120	170
Mercury	<1	<1	<1	4	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	18	35	20	18	17	32	32	35	24	18	21	38	43	36	23	36	22	24	24	30	45	18	19	17	22	29
Selenium	<3	<3	<3	<3	<3	<3	50	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Zinc	55	540	160	510	98	93	480	100	59	40	48	86	94	78	100	92	310	59	68	120	120	47	69	110	71	180
Total cyanide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Free cyanide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total sulphate	1.4	0.4	0.28	0.3	0.09	0.07	0.31	0.07	0.84	1	0.23	0.09	0.1	0.17	0.24	0.31	0.36	0.23	0.06	0.08	0.12	0.5	0.51	0.16	0.11	0.24
Phenol	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.37	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	0.04	<0.01	0.16
Acenaphthene	<0.1	0.1	<0.1	0.2	<0.1	<0.1	3.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	1.5	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	2.5
Acenaphthylene	<0.1	<0.1	<0.1	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Anthracene	<0.1	0.3	<0.1	<1.0	<0.1	<0.1	10	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.7	<0.1	3.2	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	0.8	0.1	17
Benzo(a)anthracene	<0.1	0.9	0.2	3.9	0.5	<0.1	24	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5.7	<0.1	8.6	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	1.5	0.5	41
Benzo(a)pyrene	<0.1	0.7	<0.1	3.2	0.4	<0.1	**18**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	4.5	<0.1	7.9	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	1.3	0.6	**32**
Benzo(b)fluoranthene	<0.1	0.8	<0.1	3.3	0.5	<0.1	18	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	4.2	<0.1	11	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	1.1	0.5	36
Benzo(ghi)perylene	<0.1	0.4	<0.1	2.1	0.3	<0.1	7.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.4	<0.1	4.3	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	0.6	0.3	15
Benzo(k)fluoranthene	<0.1	0.8	<0.1	2	0.2	<0.1	12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.7	<0.1	5.9	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	1.5	0.6	28
Chrysene	<0.1	1	0.2	4.2	0.5	<0.1	22	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5.2	<0.1	8.3	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	1.5	0.5	39
Dibenzo(ah)anthracene	<0.1	0.1	<0.1	0.6	<0.1	<0.1	2.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.6	<0.1	0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	4.3
Fluoranthene	<0.1	2.5	0.3	9.1	0.9	<0.1	70	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	17	<0.1	25	2.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.9	1.2	80
Fluorene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	4.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	1.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	2.9
Indeno(1,2,3cd)pyrene	<0.1	0.4	<0.1	1.6	0.2	<0.1	7.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.2	<0.1	3.9	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	0.3	15
Naphthalene	<0.1	0.7	<0.1	<0.1	<0.1	<0.1	1.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.9	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	<0.1	0.5
Phenanthrene	<0.1	1.8	0.2	5.1	0.4	<0.1	47	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5.5	<0.1	12	2.3	<0.1	<0.1	<0.1	<0.1	<0.1	2.4	0.5	47
Pyrene	<0.1	2.2	0.3	7.7	0.8	<0.1	56	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	16	<0.1	24	1.6	<0.1	<0.1	<0.1	<0.1	<0.1	3.6	1.1	70
Polyaromatic Hydrocarbons (Total)	<0.1	13	1.2	43	4.7	<0.1	300	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	70	<0.1	120	9.7	<0.1	<0.1	<0.1	<0.1	<0.1	20	6.2	430
TPH (C8-C10)			<1	<1	<1	<1	<1	<1		<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10
TPH (C10-C12)			<1	<1	1	<1	<1	<1		<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10
TPH (C12-C16)			2	4	5	<1	2	<1		<1	<1	<1	<1		1	<1	4	<1	<1	<1	<1	<1	<1	1	<1	36
TPH (C16-C21)			2	27	25	<1	15	<1		2	<1	<1	1		4	<1	27	2	<1	<1	<1	<1	1	12	2	480
TPH (C21-C35)			3	68	47	<1	35	2		1	<1	<1	<1		10	<1	90	2	<1	<1	<1	<1	4	35	6	1000
TPH (C35-C40)			<1	3	2	<1	2	<1		<1	<1	<1	<1		2	1	21	2	<1	<1	<1	<1	<1	3	<1	110
TPH (C8 - C40)			7	102	80	<1	54	2		3	<1	<1	1		17	1	142	6	<1	<1	<1	<1	5	5	8	1626
TPH Aliphatics >C5-C6	<0.300	<0.300							<0.100					<0.100												
TPH Aliphatics >C6-C8	<0.30	<0.30							<0.10					<0.10												
TPH Aliphatics >C8-C10	<0.30	<0.30							<0.10					<0.10												
TPH Aliphatics >C10-C12	<1	<1							<1					<1												
TPH Aliphatics >C12-C16	<2	<2							<2					<2												
TPH Aliphatics >C16-C21	<1	2							<1					<1												
TPH Aliphatics >C21-C35	<4	<4							<4					<4												
TPH Aliphatics >C16-C35	<5	<6							<5					<5												
TPH Aliphatics >C35-C44	<1	<1							<1					<1												
TPH Total Aliphatics (C5-C44)	**N.D.**	2							**N.D.**					**N.D.**												
TPH Aromatics >C6-C7	<0.30	<0.30							<0.10					<0.10												
TPH Aromatics >C7-C8	<0.30	<0.30							<0.10					<0.10												
TPH Aromatics >C8-C10	<0.30	<0.30							<0.10					<0.10												
TPH Aromatics >C10-C12	<1	<1							<1					<1												
TPH Aromatics >C12-C16	<1	2							<1					<1												
TPH Aromatics >C16-C21	<1	6							<1					<1												
TPH Aromatics >C21-C35	<1	13							<1					<1												
TPH Aromatics >C35-C44	<1	<1							<1					<1												
Total Aromatics (C6-C44)	**N.D.**	21							**N.D.**					**N.D.**												
Total Aromatics and Aliphatics	**N.D.**	23							**N.D.**					**N.D.**												
Benzene	<0.030	<0.030							<10					<0.010												
Toluene	<0.030	<0.030							16					<0.010												
Ethylbenzene	<0.030	<0.030							<10					<0.010												
Methyl tert-Butyl Ether	<0.030	<0.030							<10					<0.010												
Ortho-Xylene	<0.030	<0.030							14					0.014												
Meta/Para-Xylene	<0.030	<0.030							14					0.021												
PCB 101	<0.00005																							0.0002		0.0007

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Date	24-Jul-13	24-Jul-13	24-Jul-13	24-Jul-13	24-Jul-13	24-Jul-13	24-Jul-13	24-Jul-13	30-Jul-13	30-Jul-13	29-Jul-13	30-Jul-13	30-Jul-13	30-Jul-13	30-Jul-13	30-Jul-13	31-Jul-13	31-Jul-13	02-Aug-13	2-Aug-13	2-Aug-13	2-Aug-13	2-Aug-13	2-Aug-13	6-Aug-13	6-Aug-13
Sample ID	BH37	BH22	BH22	SCPT02	BH04	BH04	BH02	BH02	BH40A	BH40A	BH40A	BH03	MC03	SCPT1	SPTC3c	BH01	SCPT5B	BH04	BH07	BH07	BH03	BH38	BH38	BH38	SCPT24	SCPT24
Depth	4	0.5	1	0.5	0.5	1	0.5	1	6.7	2.7	0.8	0.7	0.5	1	0.2	1	0.5	1.6	2.1	0.5	1.5	2	8.5	0.5	1	0.5
PCB 118	<0.00005																							0.00009		<0.00050
PCB 138	<0.00005																							0.00074		0.0013
PCB 153	<0.00005																							0.00058		0.0015
PCB 180	<0.00005																							0.00083		0.0025
PCB 28	<0.00005																							<0.00005		<0.00050
PCB 52	<0.00005																							<0.00005		<0.00050
Sum of PCBs	<0.00035																							<0.00254		<0.0075
1,1,1,2-Tetrachloroethane	<0.15	<0.15												<0.050										<0.050		<0.050
1,1,1-Trichloroethane	<0.15	<0.15												<0.050										<0.050		<0.050
1,1,2,2-Tetrachloroethane	<0.15	<0.15												<0.050										<0.050		<0.050
1,1,2-Trichloroethane	<0.15	<0.15												<0.050										<0.050		<0.050
1,1-Dichloroethane	<0.15	<0.15												<0.050										<0.050		<0.050
1,1-Dichloroethylene	<0.15	<0.15												<0.050										<0.050		<0.050
1,1-Dichloro-1-propene	<0.15	<0.15												<0.050										<0.050		<0.050
1,2,3-Trichloropropane	<0.15	<0.15												<0.050										<0.050		<0.050
1,2,4-Trimethylbenzene	<0.15	<0.15												<0.050										<0.050		<0.050
1,2-Dibromoethane	<0.15	<0.15												<0.050										<0.050		<0.050
1,2-Dichlorobenzene	<0.15	<0.15												<0.050										<0.050		<0.050
1,2-Dichloroethane	<0.15	<0.15												<0.050										<0.050		<0.050
1,2-Dichloropropane	<0.15	<0.15												<0.050										<0.050		<0.050
1,3,5-Trimethylbenzene	<0.15	<0.15												<0.050										<0.050		<0.050
1,3-Dichlorobenzene	<0.15	<0.15												<0.050										<0.050		<0.050
1,3-Dichloropropane	<0.15	<0.15												<0.050										<0.050		<0.050
1,4-Dichlorobenzene	<0.15	<0.15												<0.050										<0.050		<0.050
2,2-Dichloropropane	<0.15	<0.15												<0.050										<0.050		<0.050
2-Chlorotoluene	<0.15	<0.15												<0.050										<0.050		<0.050
4-Chlorotoluene	<0.15	<0.15												<0.050										<0.050		<0.050
Benzene	<0.030	<0.030							<10					<0.010										<0.010		<0.010
Bromobenzene	<0.15	<0.15												<0.050										<0.050		<0.050
Bromochloromethane	<0.15	<0.15												<0.050										<0.050		<0.050
Bromodichloromethane	<0.15	<0.15												<0.050										<0.050		<0.050
Bromoform	<0.15	<0.15												<0.050										<0.050		<0.050
Bromomethane	<0.15	<0.15												<0.050										<0.050		<0.050
Carbon tetrachloride	<0.15	<0.15												<0.050										<0.050		<0.050
Chlorobenzene	<0.15	<0.15												<0.050										<0.050		<0.050
Chlorodibromomethane	<0.15	<0.15												<0.050										<0.050		<0.050
Chloroethane	<0.15	<0.15												<0.050										<0.050		<0.050
Chloroform	<0.15	<0.15												<0.050										<0.050		<0.050
Chloromethane	<0.15	<0.15												<0.050										<0.050		<0.050
cis-1,2-Dichloroethene	<0.15	<0.15												<0.050										<0.050		<0.050
cis-1,3-Dichloropropene	<0.15	<0.15												<0.050										<0.050		<0.050
Dibromomethane	<0.15	<0.15												<0.050										<0.050		<0.050
Dichlorodifluoromethane	<0.15	<0.15												<0.050										<0.050		<0.050
Dichloromethane	<0.15	<0.15												<0.050										<0.050		<0.050
Ethylbenzene	<0.030	<0.030							<10					<0.010										<0.010		<0.010
Isopropylbenzene	<0.15	<0.15												<0.050										<0.050		<0.050
M/p-Xylene	<0.030	<0.030							14					0.021										<0.010		<0.010
n-Propylbenzene	<0.15	<0.15												<0.050										<0.050		<0.050
o-Xylene	<0.030	<0.030							14					0.014										<0.010		<0.010
p-Isopropyltoluene	<0.15	<0.15												<0.050										<0.050		<0.050
Sec-Butylbenzene	<0.15	<0.15												<0.050										<0.050		<0.050
Styrene	<0.15	<0.15												<0.050										<0.050		<0.050
Tert-Butylbenzene	<0.15	<0.15												<0.050										<0.050		<0.050
Tetrachloroethylene	<0.15	<0.15												<0.050										<0.050		<0.050
Toluene	<0.030	<0.030							16					<0.01										<0.010		<0.010
trans-1,2-Dichloroethylene	<0.15	<0.15												<0.050										<0.050		<0.050
trans-1,3-Dichloropropene	<0.15	<0.15												<0.050										<0.050		<0.050
Trichloroethylene (TCE)	<0.15	<0.15												<0.050										<0.050		<0.050
Trichlorofluoromethane	<0.15	<0.15												<0.050										<0.050		<0.050
Vinyl Chloride	**<0.15**	**<0.15**												<0.050										<0.050		<0.050
1,2,4-Trichlorobenzene	<0.1	<0.1												<0.1										<0.1		<0.1
1,2-Dichlorobenzene	<0.1	<0.1												<0.1										<0.1		<0.1
1,3-Dichlorobenzene	<0.1	<0.1												<0.1										<0.1		<0.1
1,4-Dichlorobenzene	<0.1	<0.1												<0.1										<0.1		<0.1
2,4,5-Trichlorophenol	<0.1	<0.1												<0.1										<0.1		<0.1
2,4,6-Trichlorophenol	<0.1	<0.1												<0.1										<0.1		<0.1
2,4-Dichlorophenol	<0.1	<0.1												<0.1										<0.1		<0.1
2,4,-Dimethylphenol	<0.1	<0.1												<0.1										<0.1		<0.1
2,4,-Dinitrophenol	<0.1	<0.1												<0.1										<0.1		<0.1
2,4-Dinitrotoluene	<0.1	<0.1												<0.1										<0.1		<0.1
2,6-Dinitrotoluene	<0.1	<0.1												<0.1										<0.1		<0.1
2-Chloronaphthalene	<0.1	<0.1												<0.1										<0.1		<0.1
2-Chlorophenol	<0.1	<0.1												<0.1										<0.1		<0.1
2-Methylphenol	<0.1	<0.1												<0.1										<0.1		<0.1
2-Methyl naphthalene	<0.1	0.7												<0.1										0.2		0.4
2-Nitroaniline	<0.1	<0.1												<0.1										<0.1		<0.1
2-Nitrophenol	<0.1	<0.1												<0.1										<0.1		<0.1
3-Nitroaniline	<0.1	<0.1												<0.1										<0.1		<0.1
3/4-Methylphenol	<0.1	<0.1												<0.1										<0.1		<0.1
4-Bromophenyl phenyl ether	<0.1	<0.1												<0.1										<0.1		<0.1
4-Chloro, 3-methylphenol	<0.1	<0.1												<0.1										<0.1		<0.1
4-Chloroaniline	<0.1	<0.1												<0.1										<0.1		<0.1
4-Chlorophenyl phenylether	<0.1	<0.1												<0.1										<0.1		<0.1
4-Nitroaniline	<0.1	<0.1												<0.1										<0.1		<0.1

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Date	24-Jul-13	24-Jul-13	24-Jul-13	24-Jul-13	24-Jul-13	24-Jul-13	24-Jul-13	24-Jul-13	30-Jul-13	30-Jul-13	29-Jul-13	30-Jul-13	30-Jul-13	30-Jul-13	30-Jul-13	30-Jul-13	31-Jul-13	31-Jul-13	02-Aug-13	2-Aug-13	2-Aug-13	2-Aug-13	2-Aug-13	2-Aug-13	6-Aug-13	6-Aug-13
Sample ID	BH37	BH22	BH22	SCPT02	BH04	BH04	BH02	BH02	BH40A	BH40A	BH40A	BH03	MC03	SCPT1	SPTC3c	BH01	SCPT5B	BH04	BH07	BH07	BH03	BH38	BH38	BH38	SCPT24	SCPT24
Depth	4	0.5	1	0.5	0.5	1	0.5	1	6.7	2.7	0.8	0.7	0.5	1	0.2	1	0.5	1.6	2.1	0.5	1.5	2	8.5	0.5	1	0.5
4-Nitrophenol	<0.1	<0.1												<0.1										<0.1		<0.1
Acenaphthene	<0.1	0.1												<0.1										0.2		2.5
Acenaphthylene	<0.1	<0.1												<0.1										<0.1		<0.1
Anthracene	<0.1	0.3												<0.1										0.8		17
Azobenzene	<0.1	<0.1												<0.1										<0.1		<0.1
Benzo(a)anthracene	<0.1	0.9												<0.1										1.5		41
Benzo(a)pyrene	<0.1	0.7												<0.1										1.3		**32**
Benzo(b/k)fluoranthene	<0.1	1.5												<0.1										2.5		63
Benzo(ghi)perylene	<0.1	0.4												<0.1										0.6		15
Bis(2-chloroethoxy) methane	<0.1	<0.1												<0.1										<0.1		<0.1
Bis(2-chloroethyl)ether	<0.1	<0.1												<0.1										<0.1		<0.1
Bis(2-chloroisopropyl) ether	<0.1	<0.1												<0.1										<0.1		<0.1
Bis(2-ethylhexyl) phthalate	<0.1	0.3												<0.1										1.2		2.4
Butyl benzyl phthalate	<0.1	<0.1												<0.1										<0.1		<0.1
Carbazole	<0.1	<0.1												<0.1										0.5		<0.1
Chrysene	<0.1	1												<0.1										1.5		39
Di-n-butyl phthalate	<0.1	<0.1												<0.1										<0.1		0.2
Di-n-octyl phthalate	<0.1	<0.1												<0.1										<0.1		<0.1
Dibenz(ah)anthracene	<0.1	0.1												<0.1										0.2		4.3
Dibenzofuran	<0.1	0.3												<0.1										0.2		1.9
Diethyl phthalate	<0.1	<0.1												<0.1										<0.1		<0.1
Dimethyl phthalate	<0.1	<0.1												<0.1										<0.1		<0.1
Fluoranthene	<0.1	2.5												<0.1										3.9		80
Fluorene	<0.1	<0.1												<0.1										0.2		2.9
Hexachlorobenzene	<0.1	<0.1												<0.1										<0.1		<0.1
Hexachlorobutadiene	<0.1	<0.1												<0.1										<0.1		<0.1
Hexachlorocyclopentadiene	<0.1	<0.1												<0.1										<0.1		<0.1
Hexachloroethane	<0.1	<0.1												<0.1										<0.1		<0.1
Indeno(1,2,3,cd)pyrene	<0.1	0.4												<0.1										0.5		15
Isophorone	<0.1	<0.1												<0.1										<0.1		<0.1
Naphthalene	<0.1	0.7												<0.1										0.5		0.5
Nitrobenzene	<0.1	<0.1												<0.1										<0.1		<0.1
Pentachlorophenol	<0.1	<0.1												<0.1										<0.1		<0.1
Phenanthrene	<0.1	1.8												<0.1										2.4		47
Phenol	<0.1	<0.1												<0.1										<0.1		<0.1
Pyrene	<0.1	2.2												<0.1										3.6		70

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Strata	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground
Observed Contamination																											
Sample Description	Clay	Sandy Soil	Clay	Sandy Soil	Clay	Clay	Sandy Soil	Clay	Clay	Clay	Sandy Soil	Clay	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Sandy Soil	Topsoil	Fill	Sandy Soil	Fill	Clay	Topsoil	Clay	Sandy Soil	
Date	6-Aug-13	6-Aug-13	6-Aug-13	6-Aug-13	5-Aug-13	5-Aug-13	9-Aug-13	9-Aug-13	12-Aug-13	12-Aug-13	12-Aug-13	12-Aug-13	7-Aug-13	7-Aug-13	7-Aug-13	7-Aug-13	8-Aug-13	14-Aug-13	14-Aig-13	14-Aug-13	14-Aug-13	14-Aug-13	14-Aug-13	14-Aug-13	15-Aug-13	15-Aug-13	
Sample ID	BH09	BH45	BH45	BH45	SCPT27	SCTP27	BH17	BH17	BH06	BH06	BH43	BH43	SCPT33	BH08	SCPT07	BH06	SCPT10	BH42	SCPT29	BH29	BH29	BH05	BH05	SCPT30	BH42	SCPT23	
Depth	1.6	0.6	2.5	0.3	0.5	1	0.5	2.25	1.5	2.5	0.5	1.5	1	0.2	0.2	0.3	1	0.2	0.5	0.5	1.5	1.5	2	0.5	3	0.5	
Substance																											
Moisture Content @ 105C	25	24	27	18	18	26	11	24	19	26	13	26	30	8.8	13	7.4	23	3.3	18	14	13	12	26	19	25	15	
Moisture Content @ 40C	24	25	23	17	19	24	9.4	21	18	25	17	23	20	9.3	9.4	8.2	22	2.8	17	13	14	11	24	18	25	15	
Asbestos	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	**N.D.**	N.D.	N.D.	**Chrysotile**	**N.D.**	N.D.	N.D.	N.D.	N.D.	N.D.	**N.D.**	N.D.	N.D.	N.D.	**N.D.**	**N.D.**	N.D.	Chrysotile	N.D.	**N.D.**	
Asbestos Quantification										<0.001														<0.001			
pH	8.3	7.7	7.6	8.1	7.7	7.8	8.2	8.2	8	7.8	8.2	8.1	7.9	8.3	8.3	8.4	8.5	8.7	8.5	8.2	8.2	8.4	8.3	8	7.8	8.1	
Fraction Organic Carbon (FOC)	0.0063	-	0.0071	-	-	0.015	-	-	-	0.56	-	-	-	-	-	-	0.012	-	2.1	-	0.79	-	1	-	-	0.035	
Arsenic	11	14	17	19	27	16	31	10	12	11	24	18	31	4	5	4	16	9	15	7.4	7	4.7	12	19	11	20	
Boron	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	
Chromium (total)	47	14	26	13	39	35	29	25	27	19	17	26	18	16	10	10	31	5	36	8	13	10	33	50	25	24	
Chromium (III)	47	14	26	13	39	35	29	25	27	19	17	26	18	16	10	10	31	5	36	8	13	10	33	50	25	24	
Chromium (IV)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Copper	16	94	21	82	45	25	130	19	19	11	100	78	350	11	9	6	20	11	36	24	14	10	19	66	20	81	
Lead	18	160	45	240	130	57	**1500**	57	35	12	300	76	370	19	20	17	32	21	78	65	30	29	27	100	40	**1300**	
Mercury	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Nickel	27	17	28	19	38	36	27	25	27	19	25	27	38	15	9	10	31	7	29	9	14	9	32	31	23	27	
Selenium	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Zinc	70	89	70	89	140	110	290	72	80	50	110	110	180	49	86	55	91	150	140	56	46	53	90	170	67	260	
Total cyanide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Free cyanide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Total sulphate	0.05	0.23	0.08	0.25	0.19	0.15	0.21	0.06	0.16	1.2	0.37	0.2	0.42	0.08	0.09	0.08	0.08	0.09	0.16	0.1	0.14	0.13	0.08	0.18	0.27	0.16	
Phenol	<0.01	<0.01	<0.01	0.06	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.3	
Acenaphthene	<0.1	<0.1	<0.1	0.1	<0.1	1.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.6	0.2	<0.1	<0.1	<0.1	<0.1	3.3	
Acenaphthylene	<0.1	<0.1	<0.1	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.4	0.1	<0.1	<0.1	<0.1	<0.1	0.4	
Anthracene	<0.1	<0.1	<0.1	1.3	0.2	2.9	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.1	0.8	<0.1	<0.1	<0.1	<0.1	7.1	
Benzo(a)anthracene	<0.1	<0.1	<0.1	4.6	0.8	4.8	0.5	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	4.9	2.2	<0.1	<0.1	0.4	<0.1	13	
Benzo(a)pyrene	<0.1	<0.1	<0.1	2.6	0.5	3.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.8	1.5	<0.1	<0.1	0.3	<0.1	6.6	
Benzo(b)fluoranthene	<0.1	<0.1	<0.1	3.1	0.7	3.3	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3	1.3	<0.1	<0.1	0.4	<0.1	5.6	
Benzo(ghi)perylene	<0.1	<0.1	<0.1	1.3	0.3	1.6	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.4	0.7	<0.1	<0.1	0.3	<0.1	3.6	
Benzo(k)fluoranthene	<0.1	<0.1	<0.1	2	0.4	2.6	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.5	1.6	<0.1	<0.1	0.4	<0.1	4.6	
Chrysene	<0.1	0.1	<0.1	4	0.8	4.4	0.5	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.1	5	2.3	<0.1	<0.1	0.6	<0.1	7	
Dibenzo(ah)anthracene	<0.1	<0.1	<0.1	0.4	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.4	0.2	<0.1	<0.1	<0.1	<0.1	1.2	
Fluoranthene	<0.1	0.4	<0.1	7	1.9	12	0.9	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	0.4	0.3	12	6.1	0.2	<0.1	1	<0.1	27	
Fluorene	<0.1	<0.1	<0.1	0.2	<0.1	1.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.3	0.4	<0.1	<0.1	<0.1	<0.1	3.2	
Indeno(1,2,3cd)pyrene	<0.1	<0.1	<0.1	1.2	0.3	1.6	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.4	0.7	<0.1	<0.1	0.2	<0.1	3.8	
Naphthalene	<0.1	<0.1	<0.1	0.5	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.4	0.5	0.9	<0.1	0.3	<0.1	11	
Phenanthrene	<0.1	0.2	<0.1	3.9	0.8	8.8	0.4	<0.1	0.2	<0.1	0.2	<0.1	0.3	<0.1	0.2	<0.1	<0.1	<0.1	0.1	8	3.2	<0.1	<0.1	0.5	<0.1	25	
Pyrene	<0.1	0.3	<0.1	5.8	1.7	9.4	0.8	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	0.5	0.3	11	5.4	0.3	<0.1	1	<0.1	25	
Polyaromatic Hydrocarbons (Total)	<0.1	1	<0.1	39	8.6	57	4.9	<0.1	1	<0.1	0.2	<0.1	0.5	<0.1	0.6	<0.1	<0.1	1.3	0.8	3.5	27	<0.1	<0.1	5.4	<0.1	140	
TPH (C8-C10)			<1	<1	<1				2		<1		<1		<1		<1	<10	<10		<1		<1			<10	
TPH (C10-C12)			<1	1	<1				<1		<1		<1		<1		<1	<10	<10		<1		<1			<10	
TPH (C12-C16)			<1	36	<1				<1		3		4		<1		<1	<10	<10		5		<1			<10	
TPH (C16-C21)			<1	210	5				<1		3		4		<1		<1	<10	12		9		<1			55	
TPH (C21-C35)			<1	430	8				25		8		11		17		<1	<10	13		16		<1			360	
TPH (C35-C40)			<1	23	<1				8		<1		<1		3		<1	<10	<10		<1		<1			120	
TPH (C8 - C40)			<1	700	12				35		14		19		20		<1	<10	25		30		<1			540	
TPH Aliphatics >C5-C6	<0.100	<0.100				<0.100	<0.100	<0.100		<0.100		<0.100		<0.100		<0.100				<0.100		<0.100		<0.100	<0.100		
TPH Aliphatics >C6-C8	<0.10	<0.10				<0.10	<0.10	<0.10		<0.10		<0.10		<0.10		<0.10				<0.10		<0.10		<0.10	<0.10		
TPH Aliphatics >C8-C10	<0.10	<0.10				<0.10	<0.10	<0.10		<0.10		<0.10		<0.10		<0.10				<0.10		18		<0.10	<0.10		
TPH Aliphatics >C10-C12	<1	<1				<1	<1	<1		<1		<1		<10		<1				<1		19		<1	<1		
TPH Aliphatics >C12-C16	<2	<2				<2	<2	<2		<2		<2		<10		<2				<2		<10		<2	<2		
TPH Aliphatics >C16-C21	<1	<1				<1	<1	<1		<1		<1		<10		<1				3		<10		1	<1		
TPH Aliphatics >C21-C35	<4	<4				<4	<4	<4		<4		<4		44		10				<4		160		<4	<4		
TPH Aliphatics >C16-C35	<5	<5				<5	<5	<5		<5		<5		<54		<11				<7		<170		<5	<5		
TPH Aliphatics >C35-C44	<1	<1				<1	<1	<1		<1		<1		125		15				<1		101		<1	<1		
TPH Total Aliphatics (C5-C44)	**N.D.**	**N.D.**				**N.D.**	**N.D.**	**N.D.**		**N.D.**		**N.D.**		170		25				3		300	-	1	**N.D.**		
TPH Aromatics >C6-C7	<0.10	<0.10				<0.10	<0.10	<0.10		<0.10		<0.10		<0.10		<0.10				<0.10		<0.10		<0.10	<0.10		
TPH Aromatics >C7-C8	<0.10	<0.10				<0.10	<0.10	<0.10		<0.10		<0.10		<0.10		<0.10				<0.10		<0.10		<0.10	<0.10		
TPH Aromatics >C8-C10	<0.10	<0.10				<0.10	<0.10	<0.10		<0.10		<0.10		<0.10		<0.10				0.12		68		0.14	<0.10		
TPH Aromatics >C10-C12	<1	<1				<1	<1	<1		<1		<1		<10		<1				<1		<10		<1	<1		
TPH Aromatics >C12-C16	<1	<1				<1	<1	<1		<1		<1		<10		<1				11		<10		<1	<1		
TPH Aromatics >C16-C21	<1	<1				2	2	<1		<1		<1		<10		<1				69		<10		1	<1		
TPH Aromatics >C21-C35	<1	2				4	5	<1		<1		<1		<10		<1				100		99		3	<1		
TPH Aromatics >C35-C44	<1	<1				<1	<1	<1		<1		<1		<10		<1				17		73		<1	<1		
Total Aromatics (C6-C44)	**N.D.**	2				6	7	**N.D.**		**N.D.**		**N.D.**		<10		**N.D.**				200		240	-	4.1	**N.D.**		
Total Aromatics and Aliphatics	**N.D.**	2				6	7	**N.D.**		**N.D.**		**N.D.**		170		25				200		540	-	4.1	**N.D.**		
Benzene	<0.010	<0.010				<0.010	<0.010	<0.010		<0.010		<0.010		<0.010		<0.010				<0.0100		<0.0100		<0.0100	<0.010		
Toluene	<0.010	<0.010				0.015	<0.010	<0.010		<0.010		<0.010		<0.010		<0.010				<0.0100		<0.0100		0.016	<0.010		
Ethylbenzene	<0.010	<0.010				<0.010	<0.010	<0.010		<0.010		<0.010		<0.010		<0.010				<0.0100		0.012		<0.0100	<0.010		
Methyl tert-Butyl Ether	<0.010	<0.010				<0.010	<0.010	<0.010		<0.010		<0.010		<0.010		<0.010				<0.0100		<0.0100		<0.0100	<0.010		
Ortho-Xylene	<0.010	<0.010				<0.010	<0.010	<0.010		<0.010		<0.010		<0.010		<0.010				0.017		2		0.018	<0.010		
Meta/Para-Xylene	<0.010	<0.010				0.017	<0.010	<0.010		<0.010		<0.010		<0.010		<0.010				0.014		0.42		0.037	<0.010		
PCB 101	<0.00005	<0.00005				<0.00005	0.00017					<0.00005				<0.00050				<0.00005				<0.00005			

Grontmij Limited

Date	6-Aug-13	6-Aug-13	6-Aug-13	6-Aug-13	5-Aug-13	5-Aug-13	9-Aug-13	9-Aug-13	12-Aug-13	12-Aug-13	12-Aug-13	12-Aug-13	7-Aug-13	7-Aug-13	7-Aug-13	7-Aug-13	8-Aug-13	14-Aug-13	14-Aig-13	14-Aug-13	14-Aug-13	14-Aug-13	14-Aug-13	14-Aug-13	15-Aug-13	15-Aug-13
Sample ID	BH09	BH45	BH45	BH45	SCPT27	SCTP27	BH17	BH17	BH06	BH06	BH43	BH43	SCPT33	BH08	SCPT07	BH06	SCPT10	BH42	SCPT29	BH29	BH29	BH05	BH05	SCPT30	BH42	SCPT23
Depth	1.6	0.6	2.5	0.3	0.5	1	0.5	2.25	1.5	2.5	0.5	1.5	1	0.2	0.2	0.3	1	0.2	0.5	0.5	1.5	1.5	2	0.5	3	0.5
PCB 118	<0.00005	<0.00005				<0.00005	0.00015					<0.00005				<0.00050				<0.00005				<0.00005		
PCB 138	<0.00005	<0.00005				<0.00005	0.00022					<0.00005				<0.00050				<0.00005				<0.00005		
PCB 153	<0.00005	<0.00005				<0.00005	0.0002					<0.00005				<0.00050				<0.00005				<0.00005		
PCB 180	<0.00005	<0.00005				<0.00005	0.00015					<0.00005				<0.00050				<0.00005				<0.00005		
PCB 28	<0.00005	<0.00005				<0.00005	<0.00005					<0.00005				<0.00050				<0.00005				<0.00005		
PCB 52	<0.00005	<0.00005				<0.00005	0.00008					<0.00005				<0.00050				<0.00005				<0.00005		
Sum of PCBs	<0.00035	<0.00035				<0.00035	<0.00102					<0.00035				<0.0035				<0.00035				<0.00035		
1,1,1,2-Tetrachloroethane	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
1,1,1-Trichloroethane	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
1,1,2,2-Tetrachloroethane	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
1,1,2-Trichloroethane	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
1,1-Dichloroethane	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
1,1-Dichloroethylene	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
1,1-Dichloro-1-propene	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
1,2,3-Trichloropropane	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
1,2,4-Trimethylbenzene	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		17		<0.050		
1,2-Dibromoethane	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
1,2-Dichlorobenzene	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
1,2-Dichloroethane	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
1,2-Dichloropropane	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
1,3,5-Trimethylbenzene	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		11		<0.050		
1,3-Dichlorobenzene	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
1,3-Dichloropropane	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
1,4-Dichlorobenzene	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
2,2-Dichloropropane	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
2-Chlorotoluene	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
4-Chlorotoluene	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
Benzene	<0.010	<0.010				<0.010	<0.010					<0.010				<0.010				<0.0100		<0.0100		<0.0100		
Bromobenzene	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
Bromochloromethane	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
Bromodichloromethane	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
Bromoform	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
Bromomethane	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
Carbon tetrachloride	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
Chlorobenzene	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
Chlorodibromomethane	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
Chloroethane	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
Chloroform	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
Chloromethane	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
cis-1,2-Dichloroethene	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
cis-1,3-Dichloropropene	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
Dibromomethane	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
Dichlorodifluoromethane	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
Dichloromethane	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
Ethylbenzene	<0.010	<0.010				<0.010	<0.010					<0.010				<0.010				<0.0100		0.012		<0.0100		
Isopropylbenzene	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		0.33		<0.050		
M/p-Xylene	<0.010	<0.010				0.017	<0.010					<0.010				<0.010				0.014		0.42		0.037		
n-Propylbenzene	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		0.82		<0.050		
o-Xylene	<0.010	<0.010				<0.010	<0.010					<0.010				<0.010				0.017		2		0.018		
p-Isopropyltoluene	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		0.31		<0.050		
Sec-Butylbenzene	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		0.51		<0.050		
Styrene	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
Tert-Butylbenzene	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		2.1		<0.050		
Tetrachloroethylene	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
Toluene	<0.010	<0.010				0.015	<0.010					<0.010				<0.010				<0.0100		<0.0100		0.016		
trans-1,2-Dichloroethylene	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
trans-1,3-Dichloropropene	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
Trichloroethylene (TCE)	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
Trichlorofluoromethane	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
Vinyl Chloride	<0.050	<0.050				<0.050	<0.050					<0.050				<0.050				<0.050		<0.050		<0.050		
1,2,4-Trichlorobenzene	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
1,2-Dichlorobenzene	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
1,3-Dichlorobenzene	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
1,4-Dichlorobenzene	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
2,4,5-Trichlorophenol	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
2,4,6-Trichlorophenol	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
2,4-Dichlorophenol	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
2,4,-Dimethylphenol	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
2,4,-Dinitrophenol	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
2,4-Dinitrotoluene	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
2,6-Dinitrotoluene	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
2-Chloronaphthalene	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
2-Chlorophenol	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
2-Methylphenol	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
2-Methyl naphthalene	<0.1	<0.1				<0.1	0.2					<0.1				<0.1				0.5		<0.1		0.3		
2-Nitroaniline	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
2-Nitrophenol	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
3-Nitroaniline	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
3/4-Methylphenol	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
4-Bromophenyl phenyl ether	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
4-Chloro, 3-methylphenol	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
4-Chloroaniline	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
4-Chlorophenyl phenylether	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
4-Nitroaniline	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		

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Date	6-Aug-13	6-Aug-13	6-Aug-13	6-Aug-13	5-Aug-13	5-Aug-13	9-Aug-13	9-Aug-13	12-Aug-13	12-Aug-13	12-Aug-13	12-Aug-13	7-Aug-13	7-Aug-13	7-Aug-13	7-Aug-13	8-Aug-13	14-Aug-13	14-Aig-13	14-Aug-13	14-Aug-13	14-Aug-13	14-Aug-13	14-Aug-13	15-Aug-13	15-Aug-13
Sample ID	BH09	BH45	BH45	BH45	SCPT27	SCTP27	BH17	BH17	BH06	BH06	BH43	BH43	SCPT33	BH08	SCPT07	BH06	SCPT10	BH42	SCPT29	BH29	BH29	BH05	BH05	SCPT30	BH42	SCPT23
Depth	1.6	0.6	2.5	0.3	0.5	1	0.5	2.25	1.5	2.5	0.5	1.5	1	0.2	0.2	0.3	1	0.2	0.5	0.5	1.5	1.5	2	0.5	3	0.5
4-Nitrophenol	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
Acenaphthene	<0.1	<0.1				1.1	<0.1					<0.1				<0.1				0.6		<0.1		<0.1		
Acenaphthylene	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				0.4		<0.1		<0.1		
Anthracene	<0.1	<0.1				2.9	0.1					<0.1				<0.1				3.1		<0.1		<0.1		
Azobenzene	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
Benzo(a)anthracene	<0.1	<0.1				4.8	0.5					<0.1				<0.1				4.9		<0.1		0.4		
Benzo(a)pyrene	<0.1	<0.1				3.1	0.4					<0.1				<0.1				2.8		<0.1		0.3		
Benzo(b/k)fluoranthene	<0.1	<0.1				5.8	1.2					<0.1				<0.1				6.5		<0.1		0.8		
Benzo(ghi)perylene	<0.1	<0.1				1.6	0.3					<0.1				<0.1				1.4		<0.1		0.3		
Bis(2-chloroethoxy) methane	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
Bis(2-chloroethyl)ether	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
Bis(2-chloroisopropyl) ether	<0.1	<0.1				<0.1	<0.1					<0.1				0.2				<0.1		<0.1		<0.1		
Bis(2-ethylhexyl) phthalate	<0.1	<0.1				<0.1	0.2					<0.1				<0.1				0.2		0.4		0.8		
Butyl benzyl phthalate	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
Carbazole	<0.1	<0.1				8.3	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
Chrysene	<0.1	0.1				4.4	0.5					<0.1				<0.1				5		<0.1		0.6		
Di-n-butyl phthalate	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
Di-n-octyl phthalate	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
Dibenz(ah)anthracene	<0.1	<0.1				0.4	<0.1					<0.1				<0.1				0.4		<0.1		<0.1		
Dibenzofuran	<0.1	<0.1				0.5	<0.1					<0.1				<0.1				0.7		<0.1		<0.1		
Diethyl phthalate	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
Dimethyl phthalate	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
Fluoranthene	<0.1	0.4				12	0.9					<0.1				<0.1				12		0.2		1		
Fluorene	<0.1	<0.1				1.1	<0.1					<0.1				<0.1				1.3		<0.1		<0.1		
Hexachlorobenzene	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
Hexachlorobutadiene	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
Hexachlorocyclopentadiene	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
Hexachloroethane	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
Indeno(1,2,3,cd)pyrene	<0.1	<0.1				1.6	0.2					<0.1				<0.1				1.4		<0.1		0.2		
Isophorone	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
Naphthalene	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				2.4		0.9		0.3		
Nitrobenzene	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
Pentachlorophenol	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
Phenanthrene	<0.1	0.2				8.8	0.4					<0.1				<0.1				8		<0.1		0.5		
Phenol	<0.1	<0.1				<0.1	<0.1					<0.1				<0.1				<0.1		<0.1		<0.1		
Pyrene	<0.1	0.3				9.4	0.8					<0.1				<0.1				11		0.3		1		

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Strata	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground
Observed Contamination																										
Sample Description	Sandy Soil	Clay	Sandy Soil	Sandy Soil	Clay	Clay	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Clay	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Clay	Sandy Soil	Sandy Soil
Date	15-Aug-13	16-Aug-13	16-Aug-13	16-Aug-13	16-Aug-13	16-Aug-13	20-Aug-13	20-Aug-13	20-Aug-13	20-Aug-13	20-Aug-13	20-Aug-13	20-Aug-13	19-Aug-13	19-Aug-13	21-Aug-13	21-Aug-13	21-Aug-13	21-Aug-13	21-Aug-13	21-Aug-13	22-Aug-13	22-Aug-13	27-Aug-13	27-Aug-13	27-Aug-13
Sample ID	BH24	BH26	BH25	WS24	TP10	BH27	SCPT21B	WS18	WS19	WS08	WS10	WS11	WS06	SCPT13	SCPT19	BH24	WS08	WS12	WS12A	BH16A	BH16A	WS10	SCPT21	BH25	BH18	SCPT14
Depth	0.2	0.3	0.5	0.2	0.8	1	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	1.5	1.2-1.6	0.3	0.4-0.6	0.5	1.5	1.3-1.6	0.5	1.5	0.3	0.5
Substance																										
Moisture Content @ 105C	11	20	10	13	24	23	9.2	8.2	11	18	18	19	18	5.6	10	24	24	12	8.8	12	13	23	18	25	7.1	9.3
Moisture Content @ 40C	10	19	10	13	22	22	8.1	7.8	11	18	17	19	18	6.2	11	20	23	11	6.6	10	12	20	18	21	6.3	9.2
Asbestos	N.D.	N.D.	N.D.	N.D.	**N.D.**	**N.D.**	N.D.	N.D.	**N.D.**	N.D.	Chrysotile	N.D.	**N.D.**	**N.D.**	N.D.	N.D.	N.D.	N.D.	Chrysotile	N.D.	N.D.	**N.D.**	N.D.	N.D.	N.D.	N.D.
Asbestos Quantification											**0.013**								**0.016**							
pH	8.1	7.7	8	8	7.9	8.1	8.1	8.1	8.3	8.3	8	8.3	8.4	8.2	7.9	8.5	7.7	8.1	8.2	8.3	8.5	8	8.3	7.4	8.2	8.5
Fraction Organic Carbon (FOC)	-	-	-	-	0.027	-	-	-	0.0053	-	-	-	-	-	-	-	-	-	-	-	0.0026	-	-	-	-	-
Arsenic	22	16	15	7	13	11	38	13	9	20	22	10	22	25	17	8	26	12	14	27	14	25	17	9	21	19
Boron	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium (total)	25	15	17	9	17	16	36	14	10	13	34	23	14	22	23	16	26	16	21	25	16	34	35	15	20	21
Chromium (III)	25	15	17	9	17	16	36	14	10	13	34	23	14	22	23	16	26	16	21	25	16	34	35	15	21	21
Chromium (IV)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper	100	38	50	17	30	11	320	25	14	56	66	25	51	120	53	11	40	38	52	88	13	53	26	9	52	65
Lead	520	140	200	38	62	15	700	52	38	170	420	55	250	490	270	19	93	110	160	660	47	250	78	11	**780**	**760**
Mercury	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	26	19	19	9	20	18	26	11	10	13	23	24	16	27	23	17	27	16	17	25	11	28	34	14	18	18
Selenium	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Zinc	290	69	100	58	61	48	340	55	50	56	200	80	87	250	150	51	120	93	140	210	40	120	120	40	200	210
Total cyanide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Free cyanide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total sulphate	0.18	0.1	0.1	0.07	0.08	0.06	0.17	0.08	0.1	0.21	0.33	0.1	0.18	0.19	0.15	0.09	0.13	0.23	0.33	0.18	0.13	0.27	0.16	1.2	0.19	0.21
Phenol	2.9	0.05	0.05	<0.01	<0.01	<0.01	0.23	<0.01	0.01	<0.01	0.03	<0.01	<0.01	0.09	0.04	<0.01	0.03	0.29	0.14	0.06	<0.01	0.04	0.01	0.01	0.17	0.25
Acenaphthene	25	<0.1	0.5	<0.1	<0.1	<0.1	1.2	<0.1	0.3	<0.1	0.1	<0.1	0.1	2.1	0.9	<0.1	<0.1	5.2	5.6	1	<0.1	0.9	<0.1	<0.1	1.7	0.4
Acenaphthylene	4.6	<0.1	0.2	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	0.1	<0.1	<0.1	2	2.5	0.7	<0.1	<0.1	<0.1	<0.1	0.3	<0.1
Anthracene	54	0.3	1.5	0.4	<0.1	<0.1	2.7	<0.1	1	<0.1	0.3	<0.1	<0.1	7.5	1.7	<0.1	<0.1	24	17	3.2	<0.1	1.7	<0.1	0.2	5.1	1
Benzo(a)anthracene	73	0.7	3.8	1.3	<0.1	<0.1	7	0.2	3	<0.1	1.5	0.2	0.3	15	4.8	<0.1	<0.1	61	43	6.4	0.4	3.9	<0.1	0.4	10	5.5
Benzo(a)pyrene	**74**	0.4	2.9	0.6	<0.1	<0.1	5.1	0.2	1.6	<0.1	1.1	0.2	0.2	8.3	2.8	<0.1	<0.1	**53**	**42**	5.7	0.3	3	<0.1	0.3	8.4	8.9
Benzo(b)fluoranthene	72	0.4	3.3	0.8	<0.1	<0.1	4.7	0.1	2.1	<0.1	1	0.2	0.2	12	3.1	<0.1	<0.1	73	53	7	0.3	3.4	<0.1	0.3	11	9.9
Benzo(ghi)perylene	25	0.1	1.2	0.2	<0.1	<0.1	2.1	<0.1	0.6	<0.1	0.5	<0.1	<0.1	3.1	1.1	<0.1	<0.1	25	23	2.9	0.2	1.3	<0.1	<0.1	3.9	5.2
Benzo(k)fluoranthene	68	0.4	2	0.7	<0.1	<0.1	4.2	0.2	1.6	<0.1	1	0.1	0.2	8.5	2.1	<0.1	<0.1	23	26	3.7	0.3	3	<0.1	0.2	5.9	10
Chrysene	74	0.6	3.9	1.2	<0.1	<0.1	6.5	0.3	2.7	<0.1	1.4	0.2	0.3	12	4	<0.1	<0.1	54	39	6.1	0.4	3.4	<0.1	0.4	8.2	6.1
Dibenzo(ah)anthracene	7.5	<0.1	0.4	<0.1	<0.1	<0.1	0.6	<0.1	0.2	<0.1	0.1	<0.1	<0.1	1	0.3	<0.1	<0.1	6.9	5.9	0.8	<0.1	0.5	<0.1	<0.1	1.4	1.2
Fluoranthene	160	2	6.4	2.4	<0.1	<0.1	10	0.5	3.5	<0.1	3.2	0.2	0.7	34	8.2	0.2	<0.1	90	68	11	1	12	0.2	1.2	14	19
Fluorene	31	<0.1	0.6	<0.1	<0.1	<0.1	1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	1.5	0.7	<0.1	<0.1	5.3	5.8	1.4	<0.1	0.8	<0.1	<0.1	1.4	0.3
Indeno(1,2,3cd)pyrene	25	0.2	1.3	0.3	<0.1	<0.1	2.2	<0.1	0.7	<0.1	0.5	<0.1	<0.1	4	1.2	<0.1	<0.1	24	20	2.8	0.2	1.3	<0.1	0.1	4.1	4.4
Naphthalene	30	0.1	0.5	0.1	<0.1	<0.1	2.6	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	2.2	0.5	<0.1	<0.1	0.7	3.3	1.1	<0.1	1	<0.1	<0.1	1.2	0.6
Phenanthrene	170	1	5	1.5	<0.1	<0.1	8.9	0.2	2.7	<0.1	1.1	<0.1	0.3	24	6.7	0.2	<0.1	47	42	9	0.5	6.9	0.1	0.8	14	3.5
Pyrene	140	1.8	5.5	2.1	<0.1	<0.1	9.2	0.5	3.2	<0.1	2.9	0.2	0.6	29	7	0.2	<0.1	83	60	9.2	0.9	9.8	0.1	1	11	25
Polyaromatic Hydrocarbons (Total)	1000	8	39	12	<0.1	<0.1	68	2.2	24	<0.1	15	1.3	2.9	160	45	0.6	<0.1	580	460	72	4.5	53	0.4	4.9	100	100
TPH (C8-C10)		<1		<1	<1				<1					<10		<1	<1				<1			<1		<1
TPH (C10-C12)		<1		<1	<1				<1					<10		3	<1				<1			<1		2
TPH (C12-C16)		<1		<1	3				2					**70**		9	<1				<1			2		11
TPH (C16-C21)		2		6	2				8					360		16	<1				<1			3		32
TPH (C21-C35)		4		13	1				18					470		29	2				<1			7		92
TPH (C35-C40)		<1		2	<1				2					39		3	1				<1			<1		11
TPH (C8 - C40)		6		21	6				30					939		60	3				<1			12		148
TPH Aliphatics >C5-C6	<0.100		<0.100			<0.100	<0.100	<0.100		<0.100	<0.100	<0.100	<0.100		<0.100			<0.100	<0.100	<0.100		<0.100	<0.100		<0.100	
TPH Aliphatics >C6-C8	<0.10		<0.10			<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10		<0.10			<0.10	<0.10	<0.10		<0.10	<0.10		<0.10	
TPH Aliphatics >C8-C10	<0.10		<0.10			<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10		<0.10			<0.10	<0.10	<0.10		<0.10	<0.10		<0.10	
TPH Aliphatics >C10-C12	<10		<1			<1	<1	<1		<1	<10	<1	<1		<1			<10	<10	<1		<10	<1		<1	
TPH Aliphatics >C12-C16	26		3			<2	7	2		<2	<10	<2	<2		<2			<10	<10	2		<10	<2		<2	
TPH Aliphatics >C16-C21	30		8			3	11	9		<1	<10	2	3		4			25	40	5		<10	<1		2	
TPH Aliphatics >C21-C35	<10		11			<4	13	23		<4	<10	<4	<4		11			98	170	10		<10	<4		7	
TPH Aliphatics >C16-C35	<40		19			<7	24	32		<5	<20	<6	<7		15			123	210	15		<20	<5		9	
TPH Aliphatics >C35-C44	<10		<1			<1	1	1		<1	<10	<1	<1		<1			14	27	1		<10	<1		<1	
TPH Total Aliphatics (C5-C44)	56		22			3	32	35		**N.D.**	**N.D.**	2	<4.0		15			140	240	18		<10	**N.D.**		9	
TPH Aromatics >C6-C7	<0.10		<0.10			<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10		<0.10			<0.10	<0.10	<0.10		<0.10	<0.10		<0.10	
TPH Aromatics >C7-C8	<0.10		<0.10			<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10		<0.10			<0.10	<0.10	<0.10		<0.10	<0.10		<0.10	
TPH Aromatics >C8-C10	<0.10		<0.10			<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10		<0.10			<0.10	<0.10	<0.10		<0.10	<0.10		0.16	
TPH Aromatics >C10-C12	<10		2			<1	<10	<1		<1	<10	<1	<1		<1			<10	<10	<1		<10	<1		<1	
TPH Aromatics >C12-C16	64		10			<1	36	2		<1	<10	<1	3		3			<10	55	2		21	<1		6	
TPH Aromatics >C16-C21	500		58			<1	250	9		<1	39	1	13		21			150	520	15		180	<1		49	
TPH Aromatics >C21-C35	860		100			4	400	25		<1	73	3	32		40			600	1400	40		270	<1		75	
TPH Aromatics >C35-C44	175		8			<1	36	3		<1	<10	<1	3		4			70	215	4		<10	<1		7	
Total Aromatics (C6-C44)	1600		180			4	720	39		**N.D.**	110	4	51		68			820	2200	61		470	**N.D.**		140	
Total Aromatics and Aliphatics	1700		200			7	750	74		**N.D.**	110	6	51		83			960	2400	79		470	**N.D.**		150	
Benzene	0.013		<0.010			<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	<0.010		<0.010			<0.010	<0.010	<0.010		<0.010	<0.010		<0.010	
Toluene	0.012		<0.010			<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	<0.010		<0.010			<0.010	<0.010	<0.010		<0.010	<0.010		0.022	
Ethylbenzene	<0.010		<0.010			<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	<0.010		<0.010			<0.010	<0.010	<0.010		<0.010	<0.010		<0.010	
Methyl tert-Butyl Ether	<0.010		<0.010			<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	<0.010		<0.010			<0.010	<0.010	<0.010		<0.010	<0.010		<0.010	
Ortho-Xylene	<0.010		<0.010			<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	<0.010		<0.010			<0.010	<0.010	<0.010		<0.010	<0.010		0.024	
Meta/Para-Xylene	0.013		<0.010			<0.010	<0.010	0.014		<0.010	<0.010	<0.010	<0.010		<0.010			<0.010	<0.010	<0.010		<0.010	<0.010		0.06	
PCB 101	0.0019		<0.00050			<0.00005				<0.00050	<0.00050	<0.00005			0.00064			<0.00050	<0.00050	0.00017		<0.00010			<0.00050	

Grontmij Limited

Date	15-Aug-13	16-Aug-13	16-Aug-13	16-Aug-13	16-Aug-13	16-Aug-13	20-Aug-13	20-Aug-13	20-Aug-13	20-Aug-13	20-Aug-13	20-Aug-13	20-Aug-13	19-Aug-13	19-Aug-13	21-Aug-13	21-Aug-13	21-Aug-13	21-Aug-13	21-Aug-13	21-Aug-13	22-Aug-13	22-Aug-13	27-Aug-13	27-Aug-13	27-Aug-13
Sample ID	BH24	BH26	BH25	WS24	TP10	BH27	SCPT21B	WS18	WS19	WS08	WS10	WS11	WS06	SCPT13	SCPT19	BH24	WS08	WS12	WS12A	BH16A	BH16A	WS10	SCPT21	BH25	BH18	SCPT14
Depth	0.2	0.3	0.5	0.2	0.8	1	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	1.5	1.2-1.6	0.3	0.4-0.6	0.5	1.5	1.3-1.6	0.5	1.5	0.3	0.5
PCB 118	0.0014		<0.00050			<0.00005				<0.00050	<0.00050	<0.00005			0.0005			<0.00050	<0.00050	0.00011		<0.00010			<0.00050	
PCB 138	0.0034		<0.00050			<0.00005				<0.00050	<0.00050	<0.00005			0.00078			0.0006	0.0008	0.00021		<0.00010			<0.00050	
PCB 153	0.003		<0.00050			<0.00005				<0.00050	<0.00050	<0.00005			0.00066			0.0007	0.0012	0.00019		<0.00010			<0.00050	
PCB 180	0.0041		<0.00050			<0.00005				<0.00050	<0.00050	<0.00005			0.00034			0.001	0.0018	0.00011		<0.00010			<0.00050	
PCB 28	0.0007		<0.00050			<0.00005				<0.00050	<0.00050	<0.00005			<0.00005			<0.00050	<0.00050	<0.00005		<0.00010			<0.00050	
PCB 52	0.002		<0.00050			<0.00005				<0.00050	<0.00050	<0.00005			0.00028			<0.00050	<0.00050	0.00007		<0.00010			<0.00050	
Sum of PCBs	0.0165		<0.0035			<0.00035				<0.0035	<0.0035	<0.00035			<0.00325			<0.0043	<0.0058	<0.00091		<0.0007			<0.0035	
1,1,1,2-Tetrachloroethane	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
1,1,1-Trichloroethane	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
1,1,2,2-Tetrachloroethane	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
1,1,2-Trichloroethane	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
1,1-Dichloroethane	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
1,1-Dichloroethylene	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
1,1-Dichloro-1-propene	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
1,2,3-Trichloropropane	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
1,2,4-Trimethylbenzene	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
1,2-Dibromoethane	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
1,2-Dichlorobenzene	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
1,2-Dichloroethane	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
1,2-Dichloropropane	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
1,3,5-Trimethylbenzene	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
1,3-Dichlorobenzene	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
1,3-Dichloropropane	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
1,4-Dichlorobenzene	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
2,2-Dichloropropane	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
2-Chlorotoluene	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
4-Chlorotoluene	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Benzene	0.013		<0.010			<0.010	<0.010	<0.010		<0.010	<0.010	<0.010			<0.010			<0.010	<0.010	<0.010		<0.010			<0.010	
Bromobenzene	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Bromochloromethane	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Bromodichloromethane	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Bromoform	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Bromomethane	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Carbon tetrachloride	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Chlorobenzene	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Chlorodibromomethane	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Chloroethane	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Chloroform	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Chloromethane	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
cis-1,2-Dichloroethene	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
cis-1,3-Dichloropropene	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Dibromomethane	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Dichlorodifluoromethane	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Dichloromethane	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Ethylbenzene	<0.010		<0.010			<0.010	<0.010	<0.010		<0.010	<0.010	<0.010			<0.010			<0.010	<0.010	<0.010		<0.010			<0.010	
Isopropylbenzene	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
M/p-Xylene	0.013		<0.010			<0.010	<0.010	0.014		<0.010	<0.010	<0.010			<0.010			<0.010	<0.010	<0.010		<0.010			0.06	
n-Propylbenzene	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
o-Xylene	<0.010		<0.010			<0.010	<0.010	<0.010		<0.010	<0.010	<0.010			<0.010			<0.010	<0.010	<0.010		<0.010			0.024	
p-Isopropyltoluene	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Sec-Butylbenzene	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Styrene	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Tert-Butylbenzene	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Tetrachloroethylene	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Toluene	0.012		<0.010			<0.010	<0.010	<0.010		<0.010	<0.010	<0.010			<0.010			<0.010	<0.010	<0.010		<0.010			0.022	
trans-1,2-Dichloroethylene	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
trans-1,3-Dichloropropene	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Trichloroethylene (TCE)	<0.050		<0.050			<0.050	<0.050	<0.050		0.077	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Trichlorofluoromethane	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
Vinyl Chloride	<0.050		<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	<0.050			<0.050			<0.050	<0.050	<0.050		<0.050			<0.050	
1,2,4-Trichlorobenzene	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
1,2-Dichlorobenzene	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
1,3-Dichlorobenzene	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
1,4-Dichlorobenzene	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
2,4,5-Trichlorophenol	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
2,4,6-Trichlorophenol	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
2,4-Dichlorophenol	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
2,4,-Dimethylphenol	0.4		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
2,4,-Dinitrophenol	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
2,4-Dinitrotoluene	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
2,6-Dinitrotoluene	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
2-Chloronaphthalene	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
2-Chlorophenol	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
2-Methylphenol	0.5		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
2-Methyl naphthalene	16		0.4			<0.1	1	<0.1		<0.1	<0.1	<0.1			0.5			0.4	1.4	0.7		0.3			0.6	
2-Nitroaniline	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
2-Nitrophenol	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
3-Nitroaniline	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
3/4-Methylphenol	0.6		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
4-Bromophenyl phenyl ether	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
4-Chloro, 3-methylphenol	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
4-Chloroaniline	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
4-Chlorophenyl phenylether	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
4-Nitroaniline	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	

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Date	15-Aug-13	16-Aug-13	16-Aug-13	16-Aug-13	16-Aug-13	16-Aug-13	20-Aug-13	20-Aug-13	20-Aug-13	20-Aug-13	20-Aug-13	20-Aug-13	20-Aug-13	19-Aug-13	19-Aug-13	21-Aug-13	21-Aug-13	21-Aug-13	21-Aug-13	21-Aug-13	21-Aug-13	22-Aug-13	22-Aug-13	27-Aug-13	27-Aug-13	27-Aug-13
Sample ID	BH24	BH26	BH25	WS24	TP10	BH27	SCPT21B	WS18	WS19	WS08	WS10	WS11	WS06	SCPT13	SCPT19	BH24	WS08	WS12	WS12A	BH16A	BH16A	WS10	SCPT21	BH25	BH18	SCPT14
Depth	0.2	0.3	0.5	0.2	0.8	1	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	0.5	1.5	1.2-1.6	0.3	0.4-0.6	0.5	1.5	1.3-1.6	0.5	1.5	0.3	0.5
4-Nitrophenol	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
Acenaphthene	25		0.5			<0.1	1.2	<0.1		<0.1	0.1	<0.1			0.9			5.2	5.6	1		0.9			1.7	
Acenaphthylene	4.6		0.2			<0.1	0.3	<0.1		<0.1	<0.1	<0.1			0.1			2	2.5	0.7		<0.1			0.3	
Anthracene	54		1.5			<0.1	2.7	<0.1		<0.1	0.3	<0.1			1.7			24	17	3.2		1.7			5.1	
Azobenzene	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
Benzo(a)anthracene	73		3.8			<0.1	7	0.2		<0.1	1.5	0.2			4.8			61	43	6.4		3.9			10	
Benzo(a)pyrene	**74**		2.9			<0.1	5.1	0.2		<0.1	1.1	0.2			2.8			**53**	**42**	5.7		3			8.4	
Benzo(b/k)fluoranthene	**140**		5.3			<0.1	9	0.3		<0.1	2	0.3			5.4			94	77	11		6.5			17	
Benzo(ghi)perylene	25		1.2			<0.1	2.1	<0.1		<0.1	0.5	<0.1			1.1			25	23	2.9		1.3			3.9	
Bis(2-chloroethoxy) methane	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
Bis(2-chloroethyl)ether	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
Bis(2-chloroisopropyl) ether	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
Bis(2-ethylhexyl) phthalate	0.9		<0.1			<0.1	<0.1	<0.1		<0.1	0.4	<0.1			<0.1			0.5	0.4	2.2		<0.1			<0.1	
Butyl benzyl phthalate	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
Carbazole	89		<0.1			<0.1	3.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	3.1		<0.1			2.1	
Chrysene	74		3.9			<0.1	6.5	0.3		<0.1	1.4	0.2			4			54	39	6.1		3.4			8.2	
Di-n-butyl phthalate	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	0.9	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
Di-n-octyl phthalate	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
Dibenz(ah)anthracene	7.5		0.4			<0.1	0.6	<0.1		<0.1	0.1	<0.1			0.3			6.9	5.9	0.8		0.5			1.4	
Dibenzofuran	23		0.5			<0.1	1	<0.1		<0.1	<0.1	<0.1			0.7			2.3	3	0.9		0.6			1.5	
Diethyl phthalate	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
Dimethyl phthalate	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
Fluoranthene	160		6.4			<0.1	10	0.5		<0.1	3.2	0.2			8.2			90	68	11		12			14	
Fluorene	31		0.6			<0.1	1	<0.1		<0.1	<0.1	<0.1			0.7			5.3	5.8	1.4		0.8			1.4	
Hexachlorobenzene	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
Hexachlorobutadiene	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
Hexachlorocyclopentadiene	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
Hexachloroethane	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
Indeno(1,2,3,cd)pyrene	25		1.3			<0.1	2.2	<0.1		<0.1	0.5	<0.1			1.2			24	20	2.8		1.3			4.1	
Isophorone	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
Naphthalene	30		0.5			<0.1	2.6	<0.1		<0.1	<0.1	<0.1			0.5			0.7	3.3	1.1		1			1.2	
Nitrobenzene	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
Pentachlorophenol	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
Phenanthrene	170		5			<0.1	8.9	0.2		<0.1	1.1	<0.1			6.7			47	42	9		6.9			14	
Phenol	<0.1		<0.1			<0.1	<0.1	<0.1		<0.1	<0.1	<0.1			<0.1			<0.1	<0.1	<0.1		<0.1			<0.1	
Pyrene	140		5.5			<0.1	9.2	0.5		<0.1	2.9	0.2			7			83	60	9.2		9.8			11	

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Strata	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground
Observed Contamination																											
Sample Description	Clay	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Clay	Clay	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil
Date	27-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	30-Aug-13	30-Aug-13	30-Aug-13		
Sample ID	BH30	SCPT28	SCPT22	TP05A	TP05	TP04	TP04	TP04	WS09	WS18	WS19	WS19	WS01	WS01	WS02	PT14 TRENCH	SCPT18	BH27	BH44	BH44	SCPT26	SCPT26	SCPT34	WS03	WS26	WS10A	
Depth	1	0.5	0.3	1.3-1.9	0.5-0.6	0.5-0.7	0.9-1.0	1.1-1.5	0.5-0.9	2.1-2.9	1.2-1.8	3.6-5.0	0.2-0.4	1.0-1.2	0.5-1.0	0.4	0.6-1.0	1.5	0.8-1.2	0.1-0.6	0.7-1.2	0.2-0.5	0.5-0.7	1.8-2.0	0.8	0.5		
Substance																											
Moisture Content @ 105C	17	8.3	6.2	19	17	5.8	12	16	23	16	15	21	10	7.6	5.4	6.1	13	23	15	6.4	8.6	12	9.1	16	24	13	
Moisture Content @ 40C	17	7.5	12	17	14	6.8	13	15	13	16	15	26	9.7	6.7	6.7	4.3	9.5	20	11	5.1	8.1	13	6.6	16	22	11	
Asbestos	N.D.	Chrysotile	**N.D.**	N.D.	**N.D.**	N.D.	-	N.D.	**N.D.**	**N.D.**	N.D.	N.D.	N.D.	Chrysotile	N.D.	Chrysotile	N.D.	N.D.	N.D.	**N.D.**	**N.D.**	N.D.	N.D.	N.D.	N.D.	N.D.	
Asbestos Quantification		**0.022**												**0.013**		**0.042**											
pH	8	8	8.3	7.4	7.9	8.2	-	8	8.2	8.5	8.2	8.1	8.3	8.4	8.1	8.2	8.1	8.2	8.5	8.1	8.9	8.2	8.2	7.7	7.7	8.1	
Fraction Organic Carbon (FOC)	-	-	-	-	-	-	-	-	0.024	-	-	0.034	-	-	-	-	-	0.017	-	-	-	-	-	-	-	-	
Arsenic	12	9	29	15	14	24	27	13	67	16	12	26	17	25	15	9	28	10	17	9	4	17	4	11	13	15	
Boron	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chromium (total)	22	27	23	30	38	33	29	31	16	22	18	44	26	24	91	68	29	16	13	23	8	47	14	25	28	29	
Chromium (III)	22	27	23	30	38	33	29	31	16	22	18	44	26	24	91	68	29	16	13	23	8	47	14	25	28	29	
Chromium (IV)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Copper	18	37	52	27	43	140	84	24	1500	73	19	57	74	130	41	29	120	22	77	32	11	39	13	15	20	50	
Lead	38	96	220	56	55	410	350	47	**1400**	370	28	320	410	**1100**	310	180	750	67	270	78	23	75	25	17	39	160	
Mercury	<1	<1	1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	1	<1	<1	1	<1	1	<1	<1	<1	<1	<1	<1	<1	
Nickel	22	21	24	25	32	47	29	29	21	21	20	33	23	20	22	15	26	16	13	18	13	34	12	24	26	22	
Selenium	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Zinc	60	210	98	110	100	330	180	110	370	100	59	250	200	400	150	240	250	59	89	110	47	140	61	66	76	240	
Total cyanide	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Free cyanide	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Total sulphate	0.14	0.1	0.14	0.55	0.1	0.16		0.08	0.3	0.31	0.12	0.76	0.2	0.25	0.36	1.2	0.25	0.13	0.18	0.13	0.07	0.17	0.16	0.11	0.21	0.22	
Phenol	<0.01	<0.01	<0.01	<0.01	<0.01	0.11		<0.01	<0.01	0.09	<0.01	0.05	0.03	0.06	<0.01	0.16	0.06	<0.01	0.12	0.11	0.04	0.02	0.04	<0.01	<0.01	0.02	
Acenaphthene	<0.1	<0.1	<0.1	<0.1	<0.1	0.2		<0.1	<0.1	3.7	<0.1	1.9	0.1	0.3	<0.1	0.6	1.2	<0.1	0.7	<0.1	0.2	<0.1	0.6	<0.1	<0.1	0.7	
Acenaphthylene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	0.3	<0.1	<0.1	<0.1	0.2	<0.1	0.2	0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.5	<0.1	<0.1	<0.1	
Anthracene	<0.1	<0.1	0.1	<0.1	<0.1	0.7		<0.1	<0.1	11	0.3	2.4	0.4	1.1	<0.1	3.2	2.4	<0.1	3.9	0.2	0.5	<0.1	2.2	<0.1	<0.1	3.6	
Benzo(a)anthracene	<0.1	0.1	0.3	<0.1	<0.1	1.5		<0.1	<0.1	14	0.9	2.4	1.3	2.7	0.3	7.7	5.7	<0.1	7.1	0.6	1	0.4	3.3	<0.1	<0.1	7.3	
Benzo(a)pyrene	<0.1	<0.1	0.2	<0.1	<0.1	1.1		<0.1	<0.1	9.8	0.7	1.7	0.9	2	0.3	6.8	4.3	<0.1	5.2	0.8	0.7	0.3	3.8	<0.1	<0.1	5.5	
Benzo(b)fluoranthene	<0.1	<0.1	0.2	<0.1	<0.1	1		<0.1	<0.1	9.1	0.7	1.7	1	2.1	0.3	6.9	4.6	<0.1	5.7	0.8	0.8	0.3	3.3	<0.1	<0.1	5.1	
Benzo(ghi)perylene	<0.1	<0.1	0.1	<0.1	<0.1	0.6		<0.1	<0.1	4.6	0.4	1	0.5	1	0.1	4.1	2.2	<0.1	2.8	0.8	0.4	0.2	2.1	<0.1	<0.1	2.8	
Benzo(k)fluoranthene	<0.1	<0.1	0.2	<0.1	<0.1	0.9		<0.1	<0.1	10	0.8	1.8	1.2	2.2	0.3	6.4	4.1	<0.1	6	0.8	0.7	0.3	3.5	<0.1	<0.1	5.6	
Chrysene	<0.1	0.2	0.4	<0.1	<0.1	1.5		<0.1	<0.1	15	0.9	2.6	1.4	2.7	0.3	8.1	6.3	<0.1	7.6	0.8	1	0.4	3.3	<0.1	<0.1	7.3	
Dibenzo(ah)anthracene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	1.2	<0.1	0.1	<0.1	0.3	<0.1	1.2	0.6	<0.1	0.4	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	0.5	
Fluoranthene	<0.1	0.3	0.8	<0.1	0.2	3.5		<0.1	<0.1	44	2.4	9.1	3.2	5.7	0.7	20	13	<0.1	19	1.7	2.7	0.8	9	<0.1	<0.1	19	
Fluorene	<0.1	<0.1	<0.1	<0.1	<0.1	0.2		<0.1	<0.1	3.5	<0.1	1.7	0.1	0.3	<0.1	0.5	1	<0.1	0.7	<0.1	0.2	<0.1	1.1	<0.1	<0.1	0.7	
Indeno(1,2,3cd)pyrene	<0.1	<0.1	<0.1	<0.1	<0.1	0.5		<0.1	<0.1	4.2	0.3	0.8	0.4	0.9	0.1	3.4	1.8	<0.1	2.1	0.4	0.3	<0.1	1.2	<0.1	<0.1	2.4	
Naphthalene	<0.1	<0.1	<0.1	<0.1	<0.1	0.4		<0.1	<0.1	0.8	<0.1	0.6	0.3	0.4	<0.1	0.4	0.9	<0.1	0.4	<0.1	0.2	0.1	0.6	<0.1	<0.1	0.2	
Phenanthrene	<0.1	0.2	0.6	<0.1	<0.1	2.3		<0.1	<0.1	32	1	7.6	1.9	3.9	0.2	8.3	10	<0.1	11	0.6	2.1	0.4	8.8	<0.1	<0.1	10	
Pyrene	<0.1	0.3	0.7	<0.1	0.1	3		<0.1	<0.1	36	2.2	7.7	2.9	5.2	0.6	18	12	<0.1	16	1.9	2.4	0.8	8.2	<0.1	<0.1	16	
Polyaromatic Hydrocarbons (Total)	<0.1	1.1	3.6	<0.1	0.3	20		<0.1	<0.1	200	11	43	18	31	3.2	110	79	<0.1	100	9.4	13	4	52	<0.1	<0.1	98	
TPH (C8-C10)	<1	<1	<1	<1				<1	<1		<1			<1	<1			<1		<1	<1	<1		<1			
TPH (C10-C12)	<1	<1	<1	<1				<1	<1		<1			<1	<1			<1		<1	<1	<1		<1			
TPH (C12-C16)	<1	<1	1	<1				<1	<1		<1			4	5			<1		<1	<1	<1		3			
TPH (C16-C21)	1	1	1	<1				<1	1		8			20	19			1		1	3	2		1			
TPH (C21-C35)	8	5	2	3				1	11		28			70	56			2		9	67	8		2			
TPH (C35-C40)	3	<1	<1	<1				<1	2		20			11	8			<1		2	4	1		<1			
TPH (C8 - C40)	12	6	4	3				<1	14		56			105	88			3		12	74	11		6			
TPH Aliphatics >C5-C6					<0.100	<0.300				<0.100		<0.100	<0.100			<0.100	<0.100		<0.100				<0.200		<0.100	<0.100	
TPH Aliphatics >C6-C8					<0.10	<0.30				<0.10		<0.10	<0.10			<0.10	<0.10		<0.10				<0.20		<0.10	<0.10	
TPH Aliphatics >C8-C10					<0.10	<0.30				<0.10		<0.10	<0.10			<0.10	<0.10		<0.10				<0.20		<0.10	<0.10	
TPH Aliphatics >C10-C12					<1	1				<10		<10	<1			<10	<1		<10				<10		<1	<10	
TPH Aliphatics >C12-C16					<2	4				<10		<10	2			<10	<2		<10				<10		<2	10	
TPH Aliphatics >C16-C21					3	5				<10		<10	3			<10	1		15				<10		<1	14	
TPH Aliphatics >C21-C35					5	15				<10		21	21			150	6		63				100		4	21	
TPH Aliphatics >C16-C35					8	20				<20		21	24			<160	7		78				<110		<5	35	
TPH Aliphatics >C35-C44					<1	<1				<10		36	4			97	3		17				57		2	11	
TPH Total Aliphatics (C5-C44)					8	25				**N.D.**		57	30			250	10		95				160		6	56	
TPH Aromatics >C6-C7					<0.10	<0.30				<0.10		<0.10	<0.10			<0.10	<0.10		<0.10				<0.20		<0.10	<0.10	
TPH Aromatics >C7-C8					<0.10	<0.30				<0.10		<0.10	<0.10			<0.10	<0.10		<0.10				<0.20		<0.10	<0.10	
TPH Aromatics >C8-C10					<0.10	<0.30				<0.10		<0.10	0.14			<0.10	<0.10		<0.10				<0.20		<0.10	<0.10	
TPH Aromatics >C10-C12					<1	5				<10		<10	<1			<10	<1		<10				<10		<1	<10	
TPH Aromatics >C12-C16					<1	13				11		16	3			<10	<1		<10				<10		<1	<10	
TPH Aromatics >C16-C21					1	51				90		94	13			14	4		52				13		<1	31	
TPH Aromatics >C21-C35					2	97				190		160	50			150	12		220				420		5	89	
TPH Aromatics >C35-C44					<1	12				40		89	10			90	4		68				113		4	22	
Total Aromatics (C6-C44)					3	180				330		360	76			250	20		340				550		9	140	
Total Aromatics and Aliphatics					11	210				330		420	110			500	30		440				710		15	200	
Benzene					<0.010	<0.030				<0.010		<0.010	<0.010			<0.010	<0.010		<0.010				<0.020		<0.010	<0.010	
Toluene					<0.010	<0.030				<0.010		<0.010	<0.010			<0.010	<0.010		<0.010				<0.020		<0.010	<0.010	
Ethylbenzene					<0.010	<0.030				<0.010		<0.010	<0.010			<0.010	<0.010		<0.010				<0.020		<0.010	<0.010	
Methyl tert-Butyl Ether					<0.010	<0.030				<0.010		<0.010	<0.010			<0.010	<0.010		<0.010				<0.020		<0.010	<0.010	
Ortho-Xylene					<0.010	<0.030				<0.010		<0.010	<0.010			<0.010	<0.010		<0.010				<0.020		<0.010	<0.010	
Meta/Para-Xylene					0.013	0.031				<0.010		<0.010	<0.010			<0.010	<0.010		<0.010				<0.020		<0.010	<0.010	
PCB 101					<0.00005	0.0014							0.00042			0.004	<0.00050		<0.00050						<0.00005		

Date	27-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	30-Aug-13	30-Aug-13	30-Aug-13
Sample ID	BH30	SCPT28	SCPT22	TP05A	TP05	TP04	TP04	TP04	WS09	WS18	WS19	WS19	WS01	WS01	WS02:PT14 TRENCH		SCPT18	BH27	BH44	BH44	SCPT26	SCPT26	SCPT34	WS03	WS26	WS10A
Depth	1	0.5	0.3	1.3-1.9	0.5-0.6	0.5-0.7	0.9-1.0	1.1-1.5	0.5-0.9	2.1-2.9	1.2-1.8	3.6-5.0	0.2-0.4	1.0-1.2	0.5-1.0	0.4	0.6-1.0	1.5	0.8-1.2	0.1-0.6	0.7-1.2	0.2-0.5	0.5-0.7	1.8-2.0	0.8	0.5
PCB 118					<0.00005	0.00096							0.00025			0.0021	<0.00050		<0.00050						<0.00005	
PCB 138					<0.00005	0.0019							0.00071			0.0026	<0.00050		<0.00050						<0.00005	
PCB 153					<0.00005	0.0017							0.00082			0.0022	<0.00050		<0.00050						<0.00005	
PCB 180					<0.00005	0.00093							0.0007			0.001	<0.00050		<0.00050						<0.00005	
PCB 28					<0.00005	0.00007							<0.00005			<0.00050	<0.00050		<0.00050						<0.00005	
PCB 52					<0.00005	0.00067							0.00012			0.0032	<0.00050		<0.00050						<0.00005	
Sum of PCBs					<0.00035	0.00763							<0.00307			<0.0156	<0.0035		<0.0035						<0.00035	
1,1,1,2-Tetrachloroethane					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
1,1,1-Trichloroethane					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
1,1,2,2-Tetrachloroethane					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
1,1,2-Trichloroethane					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
1,1-Dichloroethane					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
1,1-Dichloroethylene					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
1,1-Dichloro-1-propene					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
1,2,3-Trichloropropane					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
1,2,4-Trimethylbenzene					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
1,2-Dibromoethane					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
1,2-Dichlorobenzene					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
1,2-Dichloroethane					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
1,2-Dichloropropane					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
1,3,5-Trimethylbenzene					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
1,3-Dichlorobenzene					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
1,3-Dichloropropane					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
1,4-Dichlorobenzene					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
2,2-Dichloropropane					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
2-Chlorotoluene					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
4-Chlorotoluene					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Benzene					<0.010	<0.030							<0.010			<0.010	<0.010		<0.010							<0.010
Bromobenzene					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Bromochloromethane					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Bromodichloromethane					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Bromoform					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Bromomethane					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Carbon tetrachloride					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Chlorobenzene					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Chlorodibromomethane					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Chloroethane					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Chloroform					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Chloromethane					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
cis-1,2-Dichloroethene					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
cis-1,3-Dichloropropene					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Dibromomethane					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Dichlorodifluoromethane					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Dichloromethane					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Ethylbenzene					<0.010	<0.030							<0.010			<0.010	<0.010		<0.010							<0.010
Isopropylbenzene					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
M/p-Xylene					0.013	0.031							<0.010			<0.010	<0.010		<0.010							<0.010
n-Propylbenzene					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
o-Xylene					<0.010	<0.030							<0.010			<0.010	<0.010		<0.010							<0.010
p-Isopropyltoluene					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Sec-Butylbenzene					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Styrene					<0.15	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Tert-Butylbenzene					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Tetrachloroethylene					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Toluene					<0.010	<0.030							<0.010			<0.010	<0.010		<0.010							<0.010
trans-1,2-Dichloroethylene					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
trans-1,3-Dichloropropene					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Trichloroethylene (TCE)					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Trichlorofluoromethane					<0.050	<0.15							<0.050			<0.050	<0.050		<0.050							<0.050
Vinyl Chloride					<0.050	**<0.15**							<0.050			<0.050	<0.050		<0.050							<0.050
1,2,4-Trichlorobenzene					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
1,2-Dichlorobenzene					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
1,3-Dichlorobenzene					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
1,4-Dichlorobenzene					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
2,4,5-Trichlorophenol					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
2,4,6-Trichlorophenol					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
2,4-Dichlorophenol					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
2,4,-Dimethylphenol					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
2,4,-Dinitrophenol					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
2,4-Dinitrotoluene					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
2,6-Dinitrotoluene					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
2-Chloronaphthalene					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
2-Chlorophenol					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
2-Methylphenol					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
2-Methyl naphthalene					<0.1	0.5							0.3			0.4	0.9		0.2							0.3
2-Nitroaniline					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
2-Nitrophenol					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
3-Nitroaniline					0.2	0.8							0.8			3.2	2.4		2.1							1.7
3/4-Methylphenol					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
4-Bromophenyl phenyl ether					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
4-Chloro, 3-methylphenol					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
4-Chloroaniline					<0.1	0.4							0.3			0.8	0.9		0.3							0.2
4-Chlorophenyl phenylether					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
4-Nitroaniline					0.2	0.8							0.3			3.2	2.4		2.1							1.7

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Date	27-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	28-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	30-Aug-13	30-Aug-13	30-Aug-13
Sample ID	BH30	SCPT28	SCPT22	TP05A	TP05	TP04	TP04	TP04	WS09	WS18	WS19	WS19	WS01	WS01	WS02:PT14	TRENCH	SCPT18	BH27	BH44	BH44	SCPT26	SCPT26	SCPT34	WS03	WS26	WS10A
Depth	1	0.5	0.3	1.3-1.9	0.5-0.6	0.5-0.7	0.9-1.0	1.1-1.5	0.5-0.9	2.1-2.9	1.2-1.8	3.6-5.0	0.2-0.4	1.0-1.2	0.5-1.0	0.4	0.6-1.0	1.5	0.8-1.2	0.1-0.6	0.7-1.2	0.2-0.5	0.5-0.7	1.8-2.0	0.8	0.5
4-Nitrophenol					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
Acenaphthene					<0.1	0.2							0.1			0.6	1.2		0.7							0.7
Acenaphthylene					<0.1	<0.1							<0.1			0.2	0.1		0.2							<0.1
Anthracene					<0.1	0.7							0.4			3.2	2.4		3.9							3.6
Azobenzene					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
Benzo(a)anthracene					<0.1	1.5							1.3			7.7	5.7		7.1							7.3
Benzo(a)pyrene					<0.1	1.1							0.9			6.8	4.3		5.2							5.5
Benzo(b/k)fluoranthene					<0.1	2.2							1.9			13	8.4		11							11
Benzo(ghi)perylene					<0.1	0.6							0.5			4.1	2.2		2.8							2.8
Bis(2-chloroethoxy) methane					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
Bis(2-chloroethyl)ether					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
Bis(2-chloroisopropyl) ether					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
Bis(2-ethylhexyl) phthalate					0.2	<0.1							0.3			0.4	0.2		0.6							0.4
Butyl benzyl phthalate					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
Carbazole					<0.1	<0.1							0.2			1.7	<0.1		<0.1							2.5
Chrysene					<0.1	1.5							1.4			8.1	6.3		7.6							7.3
Di-n-butyl phthalate					<0.1	<0.1							<0.1			0.1	0.2		0.2							2
Di-n-octyl phthalate					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
Dibenz(ah)anthracene					<0.1	<0.1							<0.1			1.2	0.6		0.4							0.5
Dibenzofuran					<0.1	0.2							0.2			0.6	1.2		0.7							<0.1
Diethyl phthalate					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
Dimethyl phthalate					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
Fluoranthene					0.2	3.5							3.2			20	13		19							19
Fluorene					<0.1	0.2							0.1			0.5	1		0.7							0.7
Hexachlorobenzene					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
Hexachlorobutadiene					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
Hexachlorocyclopentadiene					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
Hexachloroethane					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
Indeno(1,2,3,cd)pyrene					<0.1	0.5							0.4			3.4	1.8		2.1							2.4
Isophorone					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
Naphthalene					<0.1	0.4							0.3			0.4	0.9		0.4							0.2
Nitrobenzene					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
Pentachlorophenol					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
Phenanthrene					<0.1	2.3							1.9			8.3	10		11							10
Phenol					<0.1	<0.1							<0.1			<0.1	<0.1		<0.1							<0.1
Pyrene					0.1	3							2.9			18	12		16							16

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Strata	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground
Observed Contamination																												
Sample Description	Clay	Sandy Soil	Clay	Clay	Clay	Clay	Clay	Clay	Sandy Soil	Sand	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Sandy Soil	Clay		
Date															4-Sep-13	4-Sep-13	4-Sep-13	6-Sep-13	6-Sep-13	6-Sep-13	9-Sep-13	9-Sep-13	9-Sep-13	9-Sep-13	9-Sep-13	9-Sep-13		
Sample ID	WS10A	SCPT31	WS24	WS25	WS25	WS26	WS26	WS26	TP18	TP18	TP18	TP18A	BH23	BH14	WS12	WS22	SCPT32	BH41	WS20	WS20	BH41	BH41	BH41	BH44	WS17	WS16		
Depth	1.4-1.6	1	1.2-1.8	1.83-2	2-2.5	1.2-1.5	1.7-2	2-2.5	0.25-0.4	0.25	0.65-0.7	1.9-2.1	0.5	0.5	1.5	1	0.8	1.5	0.25	1.5	3	8.5	9.5	1.5	1	0.5		
Substance																												
Moisture Content @ 105C	29	6.1	28	26	22	23	22	26	11	-	16	20	9.8	14	21	21	21	16	7.5	20	29	10	13	27	13	16		
Moisture Content @ 40C	24	7	23	23	20	39	23	23	8.5	-	16	18	8	13	19	20	22	16	7	17	25	10	14	31	11	17		
Asbestos	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**N.D.**	N.D.	**N.D. nt - Chrysotile**		**N.D.**	**N.D.**	**N.D.**	Chrysotile	**N.D.**	**N.D.**	**N.D.**	N.D.	Amosite	**N.D.**	**Chrysotile**	**N.D.**	**Amosite**	N.D.	N.D.	N.D.		
Asbestos Quantification														<0.001					**0.018**		**0.033**		**0.074**					
pH	8.3	10.8	8.3	7.5	7.5	7.9	7.8	7.9	8.2	-	8.3	7.8	7.9	7.6	8.2	7.8	8.4	8.8	7.9	8.2	8	10.1	9.7	7.7	8	7.7		
Fraction Organic Carbon (FOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Arsenic	13	9	12	15	12	12	10	10	17		11	19	16	34	28	14	19	9	36	14	16	17	18	17	10	22		
Boron	1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	1	<1	<1	<1	<1		
Cadmium	<1	1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Chromium (total)	27	7	15	23	25	24	19	19	14		14	24	21	23	31	27	11	15	28	26	19	18	22	19	32	57		
Chromium (III)	27	7	15	23	25	24	19	19	14		14	24	21	23	31	27	11	15	28	26	19	18	22	19	32	57		
Chromium (IV)	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Copper	79	56	23	30	21	17	13	13	54		21	27	63	81	98	45	160	19	86	25	28	110	170	68	43	61		
Lead	48	20	49	190	39	37	14	13	190		53	69	530	330	**880**	190	420	40	210	68	180	130	330	170	45	100		
Mercury	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Nickel	27	11	18	26	26	27	20	20	19		16	27	22	24	10	24	17	17	49	27	15	17	26	22	110	41		
Selenium	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		
Zinc	730	170	56	84	88	73	55	52	130		51	80	160	240	240	130	110	81	110	200	120	300	510	94	53	170		
Total cyanide	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Free cyanide	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Total sulphate	0.25	0.34	0.08	0.49	0.11	0.2	0.08	0.14	0.12		0.11	0.11	0.15	0.23	0.33	0.14	0.25	0.35	0.27	0.23	0.44	0.66	0.39	1.8	0.1	0.21		
Phenol	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.11		<0.01	<0.01	0.03	0.03	0.12	<0.01	0.01	0.01	0.95	<0.01	<0.01	28	0.92	<0.01	<0.01	<0.01		
Acenaphthene	0.3	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	0.5	0.2	0.3	<0.1	<0.1	0.8	2.6	<0.1	<0.1	18	13	<0.1	0.2	<0.1		
Acenaphthylene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1		
Anthracene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2		<0.1	<0.1	2.4	0.8	1.6	<0.1	0.2	1.8	5.4	<0.1	0.4	26	22	0.4	0.4	<0.1		
Benzo(a)anthracene	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.7		<0.1	<0.1	5.2	2.4	7	<0.1	0.8	2.9	9.9	0.2	0.8	26	19	0.8	0.8	<0.1		
Benzo(a)pyrene	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5		<0.1	<0.1	3.9	1.6	6.7	<0.1	0.7	2	7.3	0.2	0.5	**19**	11	0.6	0.8	<0.1		
Benzo(b)fluoranthene	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5		<0.1	<0.1	3.2	1.8	6.9	<0.1	0.7	1.7	6.9	0.2	0.5	21	12	0.7	0.8	<0.1		
Benzo(ghi)perylene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3		<0.1	<0.1	1.8	0.9	3.3	<0.1	0.4	0.9	2.8	<0.1	0.2	7.2	4	0.4	0.4	<0.1		
Benzo(k)fluoranthene	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5		<0.1	<0.1	4	1.6	5.2	<0.1	0.6	1.5	7.4	0.1	0.5	15	11	0.5	0.7	<0.1		
Chrysene	<0.1	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.7		<0.1	<0.1	5.8	2.2	6.9	<0.1	0.8	2.4	9.6	0.2	0.7	23	16	0.7	0.9	<0.1		
Dibenzo(ah)anthracene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	0.5	0.3	0.8	<0.1	<0.1	0.2	0.8	<0.1	<0.1	2.5	1.3	<0.1	<0.1	<0.1		
Fluoranthene	<0.1	1	<0.1	<0.1	0.4	<0.1	<0.1	<0.1	1.6		<0.1	<0.1	9	5.2	13	<0.1	1.8	7.3	24	0.5	2.4	43	47	2.3	2.4	0.2		
Fluorene	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1	0.5	0.3	0.2	<0.1	<0.1	0.6	2.2	<0.1	<0.1	21	15	<0.1	0.2	<0.1		
Indeno(1,2,3cd)pyrene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2		<0.1	<0.1	2	0.7	3	<0.1	0.3	0.8	3	<0.1	0.2	7.6	3.6	0.3	0.3	<0.1		
Naphthalene	<0.1	<0.1	<0.1	0.2	0.2	<0.1	<0.1	<0.1	0.1		<0.1	<0.1	0.3	0.2	0.3	<0.1	<0.1	0.2	1.9	<0.1	<0.1	59	71	0.2	0.1	<0.1		
Phenanthrene	<0.1	0.3	<0.1	<0.1	0.4	<0.1	<0.1	<0.1	0.7		<0.1	<0.1	6.9	3.4	3.2	<0.1	0.7	5	16	0.3	1.1	54	56	1.1	1.6	0.1		
Pyrene	<0.1	1.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	1.5		<0.1	<0.1	7.4	4.5	13	<0.1	1.7	6.6	22	0.5	2	37	42	2	2.1	0.2		
Polyaromatic Hydrocarbons (Total)	0.3	3.8	<0.1	0.2	1.9	<0.1	<0.1	<0.1	7.6		<0.1	<0.1	53	23	60	<0.1	7.4	35	140	2.2	9.3	380	340	10	10	0.5		
TPH (C8-C10)	<1	<1	<1								<1	<1		<1		<1	<1	<10	<10		<1		<10	<10	<1	<1		
TPH (C10-C12)	<1	<1	<1								<1	<1		<1		<1	<1	<10	<10		<1		**170**	<10	<1	<1		
TPH (C12-C16)	2	<1	<1								1	<1		<1		<1	4	28	11		10		**230**	<10	4	2		
TPH (C16-C21)	<1	2	<1								1	<1		<1		<1	11	150	66		71		530	15	19	10		
TPH (C21-C35)	1	6	2								2	1		23		<1	25	200	150		150		1000	240	100	53		
TPH (C35-C40)	1	1	<1								<1	<1		10		<1	6	43	40		24		170	150	16	13		
TPH (C8 - C40)	4	9	2								4	1		33		<1	46	420	270		260		2100	410	140	78		
TPH Aliphatics >C5-C6				<0.100	<0.100	<0.100	<0.100	<0.100	<0.100				<0.100		<0.100					<0.100		<0.400					
TPH Aliphatics >C6-C8				<0.10	0.35	0.13	0.25	<0.10	<0.10				<0.10		<0.10					<0.10		<4.0					
TPH Aliphatics >C8-C10				2.4	5.7	1.4	1.3	<0.10	<0.10				<0.10		<0.10					<0.10		<0.40					
TPH Aliphatics >C10-C12				72	86	7	<1	<1	<1				<1		<20					<1		21					
TPH Aliphatics >C12-C16				**300**	**270**	38	3	<2	<2				<2		<20					<2		23					
TPH Aliphatics >C16-C21				120	100	40	5	2	2				3		<20					<1		14					
TPH Aliphatics >C21-C35				10	7	12	<4	<4	<4				6		<20					5		130					
TPH Aliphatics >C16-C35				130	107	52	<9	<6	<6				9		<40					<6		144					
TPH Aliphatics >C35-C44				<1	<1	<1	<1	<1	<1				<1		<20					6		36					
TPH Total Aliphatics (C5-C44)				500	470	99	9.6	2	2				9		<20					11		220					
TPH Aromatics >C6-C7				<0.10	<0.10	<0.10	<0.10	<0.10	<0.10				<0.10		<0.10					<0.10		<0.40					
TPH Aromatics >C7-C8				<0.10	<0.10	<0.10	<0.10	<0.10	<0.10				<0.10		<0.10					<0.10		<0.40					
TPH Aromatics >C8-C10				<0.10	0.42	<0.10	<0.10	<0.10	0.16				<0.10		<0.10					<0.10		0.9					
TPH Aromatics >C10-C12				3	8	<1	<1	<1	<1				<1		<20					<1		77					
TPH Aromatics >C12-C16				45	61	4	<1	<1	4				1		<20					<1		270					
TPH Aromatics >C16-C21				40	33	6	<1	<1	25				4		45					1		1000					
TPH Aromatics >C21-C35				8	4	1	<1	<1	44				13		180					4		1700					
TPH Aromatics >C35-C44				<1	<1	<1	<1	<1	4				1		30					1		204					
Total Aromatics (C6-C44)				96	110	11	**N.D.**	**N.D.**	77				19		260					6		3300					
Total Aromatics and Aliphatics				600	580	110	9.6	2	79				28		260					17		3500					
Benzene				<0.010	<0.010	<0.010	<0.010	<0.010	<0.010				<0.010		<0.010					<0.010		<0.040					
Toluene				<0.010	<0.010	<0.010	<0.010	0.027	0.018				<0.010		<0.010					<0.010		<0.040					
Ethylbenzene				<0.010	<0.010	<0.010	<0.010	<0.010	<0.010				<0.010		<0.010					<0.010		<0.040					
Methyl tert-Butyl Ether				<0.010	<0.010	<0.010	<0.010	<0.010	<0.010				<0.010		<0.010					<0.010		<0.040					
Ortho-Xylene				<0.010	0.022	<0.010	<0.010	0.021	0.018				<0.010		<0.010					<0.010		0.053					
Meta/Para-Xylene				<0.010	0.038	<0.010	<0.010	0.027	0.055				<0.010		<0.010					<0.010		0.055					
PCB 101									<0.00050				<0.00050						<0.00050	<0.00005	<0.00005							

Date																								
Sample ID	WS10A	SCPT31	WS24	WS25	WS25	WS26	WS26	WS26	TP18	TP18	TP18	TP18A	BH23	BH14	4-Sep-13 WS12	4-Sep-13 WS22	4-Sep-13 SCPT32	6-Sep-13 BH41	6-Sep-13 WS20	6-Sep-13 WS20	9-Sep-13 BH41	9-Sep-13 BH41	9-Sep-13 BH41	9-Sep-13 BH44	9-Sep-13 WS17	9-Sep-13 WS16
Depth	1.4-1.6	1	1.2-1.8	1.83-2	2-2.5	1.2-1.5	1.7-2	2-2.5	0.25-0.4	0.25	0.65-0.7	1.9-2.1	0.5	0.5	1.5	1	0.8	1.5	0.25	1.5	3	8.5	9.5	1.5	1	0.5
PCB 118									<0.00050				<0.00050						<0.00050	<0.00005	<0.00005					
PCB 138									<0.00050				<0.00050						0.0009	<0.00005	<0.00005					
PCB 153									<0.00050				<0.00050						0.0006	<0.00005	0.00012					
PCB 180									<0.00050				0.0008						0.0006	<0.00005	0.00025					
PCB 28									<0.00050				<0.00050						<0.00050	<0.00005	<0.00005					
PCB 52									<0.00050				<0.00050						<0.00050	<0.00005	<0.00005					
Sum of PCBs									<0.0035				<0.0038						<0.0041	<0.00035	<0.00062					
1,1,1,2-Tetrachloroethane				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
1,1,1-Trichloroethane				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
1,1,2,2-Tetrachloroethane				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
1,1,2-Trichloroethane				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
1,1-Dichloroethane				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
1,1-Dichloroethylene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
1,1-Dichloro-1-propene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
1,2,3-Trichloropropane				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
1,2,4-Trimethylbenzene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		0.27				
1,2-Dibromoethane				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
1,2-Dichlorobenzene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
1,2-Dichloroethane				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
1,2-Dichloropropane				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
1,3,5-Trimethylbenzene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
1,3-Dichlorobenzene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
1,3-Dichloropropane				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
1,4-Dichlorobenzene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
2,2-Dichloropropane				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
2-Chlorotoluene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
4-Chlorotoluene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Benzene				<0.010	<0.010	<0.010	<0.010	<0.010	<0.010				<0.010							<0.010		<0.040				
Bromobenzene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Bromochloromethane				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Bromodichloromethane				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Bromoform				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Bromomethane				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Carbon tetrachloride				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Chlorobenzene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Chlorodibromomethane				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Chloroethane				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Chloroform				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Chloromethane				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
cis-1,2-Dichloroethene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
cis-1,3-Dichloropropene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Dibromomethane				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Dichlorodifluoromethane				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Dichloromethane				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Ethylbenzene				<0.010	<0.010	<0.010	<0.010	<0.010	<0.010				<0.010							<0.010		<0.040				
Isopropylbenzene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
M/p-Xylene				<0.010	0.038	<0.010	<0.010	0.027	0.055				<0.010							<0.010		0.055				
n-Propylbenzene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
o-Xylene				<0.010	0.022	<0.010	<0.010	0.021	0.018				<0.010							<0.010		0.053				
p-Isopropyltoluene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Sec-Butylbenzene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Styrene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Tert-Butylbenzene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Tetrachloroethylene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Toluene				<0.010	<0.010	<0.010	<0.010	0.027	0.018				<0.010							<0.010		<0.040				
trans-1,2-Dichloroethylene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
trans-1,3-Dichloropropene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Trichloroethylene (TCE)				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Trichlorofluoromethane				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		<0.20				
Vinyl Chloride				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050				<0.050							<0.050		**<0.20**				
1,2,4-Trichlorobenzene				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
1,2-Dichlorobenzene				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
1,3-Dichlorobenzene				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
1,4-Dichlorobenzene				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
2,4,5-Trichlorophenol				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
2,4,6-Trichlorophenol				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
2,4-Dichlorophenol				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
2,4,-Dimethylphenol				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		0.3				
2,4,-Dinitrophenol				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
2,4-Dinitrotoluene				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
2,6-Dinitrotoluene				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
2-Chloronaphthalene				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
2-Chlorophenol				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
2-Methylphenol				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		0.2				
2-Methyl naphthalene				0.2	<0.1	<0.1	<0.1	<0.1	0.1				0.2							<0.1		20				
2-Nitroaniline				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
2-Nitrophenol				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
3-Nitroaniline				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
3/4-Methylphenol				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		0.2				
4-Bromophenyl phenyl ether				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
4-Chloro, 3-methylphenol				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
4-Chloroaniline				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
4-Chlorophenyl phenylether				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
4-Nitroaniline				<0.1	<0.1	<0.1	<0.1	<0.1	0.1				<0.1							<0.1		<0.1				

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Date														4-Sep-13	4-Sep-13	4-Sep-13	6-Sep-13	6-Sep-13	6-Sep-13	9-Sep-13	9-Sep-13	9-Sep-13	9-Sep-13	9-Sep-13	9-Sep-13
Sample ID	WS10A	SCPT31	WS24	WS25	WS25	WS26	WS26	WS26	TP18	TP18	TP18	TP18A	BH23	BH14	WS12	WS22	SCPT32	BH41	WS20	WS20	BH41	BH41	BH41	BH44	WS17	WS16
Depth	1.4-1.6	1	1.2-1.8	1.83-2	2-2.5	1.2-1.5	1.7-2	2-2.5	0.25-0.4	0.25	0.65-0.7	1.9-2.1	0.5	0.5	1.5	1	0.8	1.5	0.25	1.5	3	8.5	9.5	1.5	1	0.5
4-Nitrophenol				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
Acenaphthene				<0.1	0.3	<0.1	<0.1	<0.1	<0.1				0.5							<0.1		18				
Acenaphthylene				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				0.1							<0.1		<0.1				
Anthracene				<0.1	<0.1	<0.1	<0.1	<0.1	0.2				2.4							<0.1		26				
Azobenzene				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
Benzo(a)anthracene				<0.1	<0.1	<0.1	<0.1	<0.1	0.7				5.2							0.2		26				
Benzo(a)pyrene				<0.1	<0.1	<0.1	<0.1	<0.1	0.5				3.9							0.2		**19**				
Benzo(b/k)fluoranthene				<0.1	<0.1	<0.1	<0.1	<0.1	1.1				7.1							0.3		36				
Benzo(ghi)perylene				<0.1	<0.1	<0.1	<0.1	<0.1	0.3				1.8							<0.1		7.2				
Bis(2-chloroethoxy) methane				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
Bis(2-chloroethyl)ether				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
Bis(2-chloroisopropyl) ether				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
Bis(2-ethylhexyl) phthalate				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				0.2							<0.1		0.3				
Butyl benzyl phthalate				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
Carbazole				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		15				
Chrysene				<0.1	<0.1	<0.1	<0.1	<0.1	0.7				5.8							0.2		23				
Di-n-butyl phthalate				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
Di-n-octyl phthalate				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
Dibenz(ah)anthracene				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				0.5							<0.1		2.5				
Dibenzofuran				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				0.4							<0.1		19				
Diethyl phthalate				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
Dimethyl phthalate				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
Fluoranthene				<0.1	0.4	<0.1	<0.1	<0.1	1.6				9							0.5		43				
Fluorene				<0.1	0.3	<0.1	<0.1	<0.1	<0.1				0.5							<0.1		21				
Hexachlorobenzene				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
Hexachlorobutadiene				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
Hexachlorocyclopentadiene				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
Hexachloroethane				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
Indeno(1,2,3,cd)pyrene				<0.1	<0.1	<0.1	<0.1	<0.1	0.2				2							<0.1		7.6				
Isophorone				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
Naphthalene				0.2	0.2	<0.1	<0.1	<0.1	0.1				0.3							<0.1		59				
Nitrobenzene				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
Pentachlorophenol				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
Phenanthrene				<0.1	0.4	<0.1	<0.1	<0.1	0.7				6.9							0.3		54				
Phenol				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1				<0.1							<0.1		<0.1				
Pyrene				<0.1	0.3	<0.1	<0.1	<0.1	1.5				7.4							0.5		37				

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1																
Strata	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground
Observed Contamination																
Sample Description	Sandy Soil	Sandy Soil	Clay	Sandy Soil	Clay	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Sandy Soil	Clay	Sandy Soil
Date	10-Sep-13	10-Sep-13	10-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	12-Sep-13	11-Sep-13	11-Sep-13	9-Sep-13
Sample ID	WS14	TP11	TP11	BH46	WS23	WS13	TP16	TP16	WS21	TP14	TP14	TP14	WS14	SCPT35	WS05	SCPT24A
Depth	0.3	0.4	1.6	0.5	0.25	0.3	0.1-0.3	0.6-0.9	0.5	0.3-0.5	1.7-1.9	2.6-2.8	1.2-1.67	0.5	1.2-2	0.5
Substance																
Moisture Content @ 105C	18	11	22	11	19	14	7	22	14	22	24	30	22	9	18	10
Moisture Content @ 40C	19	10	22	12	16	12	8	23	12	17	25	31	22	8.3	18	12
Asbestos	**N.D.**	**N.D.**	N.D.	Chrysotile	N.D.	N.D.	N.D.	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**N.D.**	**N.D.**
Asbestos Quantification				**0.11**												
pH	7.9	7.6	7.7	8.5	7.6	9.3	7.7	7.7	7.7	7.6	7.7	7.7	7.2	7.9	8.1	7.7
Fraction Organic Carbon (FOC)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	19	97	16	7	17	20	22	19	46	18	75	25	14	17	11	97
Boron	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium (total)	18	42	25	11	31	17	20	32	28	33	16	14	26	23	21	1100
Chromium (III)	18	42	25	11	31	17	20	32	28	33	16	14	26	23	21	1100
Chromium (IV)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper	34	500	37	22	46	72	80	31	1300	69	35	58	15	22	12	810
Lead	230	**11000**	640	110	190	190	220	88	**1100**	130	130	160	24	91	15	**790**
Mercury	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Nickel	22	72	29	13	27	19	22	32	41	31	19	16	26	16	21	**2700**
Selenium	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Zinc	67	390	95	99	160	80	190	110	920	130	62	61	64	79	58	350
Total cyanide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Free cyanide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total sulphate	0.97	0.39	0.41	0.15	0.21	0.24	0.13	0.15	0.4	0.33	1.1	0.78	0.05	0.2	0.06	0.77
Phenol	0.01	0.18	<0.01	<0.01	<0.01	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.16
Acenaphthene	<0.1	<0.1	<0.1	0.4	<0.1	2.7	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.9
Acenaphthylene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2
Anthracene	<0.1	0.4	<0.1	1	0.3	5.5	0.2	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	13
Benzo(a)anthracene	<0.1	1.9	<0.1	1.5	0.6	8	1.2	<0.1	1.3	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	25
Benzo(a)pyrene	<0.1	1.4	<0.1	1	0.4	7.2	1	<0.1	0.9	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	14
Benzo(b)fluoranthene	<0.1	1.6	<0.1	1.1	0.4	6.7	1	<0.1	0.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	13
Benzo(ghi)perylene	<0.1	0.8	<0.1	0.4	0.1	2.8	0.5	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5.4
Benzo(k)fluoranthene	<0.1	1.4	<0.1	1	0.4	7.5	1.2	<0.1	0.8	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	15
Chrysene	0.1	1.6	<0.1	1.3	0.6	8.2	1	<0.1	1.1	0.2	<0.1	<0.1	<0.1	0.1	<0.1	22
Dibenzo(ah)anthracene	<0.1	0.2	<0.1	0.1	<0.1	1.1	0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1.2
Fluoranthene	0.2	3.6	<0.1	4.1	1.6	12	2.4	0.3	2.7	0.4	<0.1	<0.1	<0.1	0.2	<0.1	**66**
Fluorene	<0.1	<0.1	<0.1	0.5	<0.1	3.8	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.3
Indeno(1,2,3cd)pyrene	<0.1	0.7	<0.1	0.4	0.1	3.2	0.5	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5.1
Naphthalene	<0.1	2	<0.1	0.3	<0.1	7.1	0.2	<0.1	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3
Phenanthrene	0.2	2.3	<0.1	3.3	1	13	1	0.2	2.2	0.2	<0.1	<0.1	<0.1	0.1	<0.1	32
Pyrene	0.2	3.3	<0.1	3.6	1.3	11	2.1	0.2	2.3	0.4	<0.1	<0.1	<0.1	0.2	<0.1	60
Polyaromatic Hydrocarbons (Total)	0.7	21	<0.1	20	6.8	100	12	0.7	14	1.7	<0.1	<0.1	<0.1	0.6	<0.1	280
TPH (C8-C10)	<1				<1		<1	<1	1		<1	<1		<1		<10
TPH (C10-C12)	<1				<1		1	<1	3		<1	<1		<1		<10
TPH (C12-C16)	<1				<1		5	<1	13		<1	<1		<1		17
TPH (C16-C21)	<1				9		14	<1	21		1	<1		<1		330
TPH (C21-C35)	2				40		46	<1	74		<1	<1		5		1200
TPH (C35-C40)	2		4		10		9	<1	11		<1	<1		5		280
TPH (C8 - C40)	4				59		75	<1	120		1	<1		10		1800
TPH Aliphatics >C5-C6		<0.100	<0.100	<0.100		<0.100				<0.100			<0.100		<0.100	
TPH Aliphatics >C6-C8		<0.10	2.9	<0.10		<0.10				<0.10			<0.10		<0.10	
TPH Aliphatics >C8-C10		<0.10	60	<0.10		<0.10				<0.10			<0.10		<0.10	
TPH Aliphatics >C10-C12		1	**180**	<1		<1				<1			<1		<1	
TPH Aliphatics >C12-C16		6	**710**	<2		<2				<2			<2		<2	
TPH Aliphatics >C16-C21		11	660	<1		1				1			<1		2	
TPH Aliphatics >C21-C35		30	180	<4		4				<4			<4		<4	
TPH Aliphatics >C16-C35		41	840	<5		5				<5			<5		<6	
TPH Aliphatics >C35-C44		5	<1	<1		<1				<1			<1		<1	
TPH Total Aliphatics (C5-C44)		53	1800	**N.D.**		5				1			**N.D.**		2	
TPH Aromatics >C6-C7		<0.10	<0.10	<0.10		<0.10				<0.10			<0.10		<0.10	
TPH Aromatics >C7-C8		<0.10	<0.10	<0.10		<0.10				<0.10			<0.10		<0.10	
TPH Aromatics >C8-C10		<0.10	0.33	<0.10		0.24				<0.10			<0.10		<0.10	
TPH Aromatics >C10-C12		3	6	<1		8				<1			<1		<1	
TPH Aromatics >C12-C16		14	60	<1		30				<1			<1		<1	
TPH Aromatics >C16-C21		33	89	2		95				2			<1		2	
TPH Aromatics >C21-C35		59	35	5		140				8			2		<1	
TPH Aromatics >C35-C44		8	<1	1		20				6			<1		<1	
Total Aromatics (C6-C44)		120	190	8		290				16			2		2	
Total Aromatics and Aliphatics		170	2000	8		300				17			2		4	
Benzene		<0.010	<0.010	<0.010		<0.010				<0.010			<0.010		<0.010	
Toluene		<0.010	<0.010	<0.010		<0.010				<0.010			0.015		<0.010	
Ethylbenzene		<0.010	0.033	<0.010		<0.010				<0.010			<0.010		<0.010	
Methyl tert-Butyl Ether		<0.010	<0.010	<0.010		<0.010				<0.010			<0.010		<0.010	
Ortho-Xylene		<0.010	<0.010	<0.010		0.012				<0.010			<0.010		<0.010	
Meta/Para-Xylene		<0.010	<0.010	<0.010		0.022				<0.010			0.017		<0.010	
PCB 101			<0.00005			<0.00050				<0.00010						

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Date	10-Sep-13	10-Sep-13	10-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	12-Sep-13	11-Sep-13	11-Sep-13	9-Sep-13
Sample ID	WS14	TP11	TP11	BH46	WS23	WS13	TP16	TP16	WS21	TP14	TP14	TP14	WS14	SCPT35	WS05	SCPT24A
Depth	0.3	0.4	1.6	0.5	0.25	0.3	0.1-0.3	0.6-0.9	0.5	0.3-0.5	1.7-1.9	2.6-2.8	1.2-1.67	0.5	1.2-2	0.5
PCB 118			<0.00005			<0.00050				<0.00010						
PCB 138			<0.00005			<0.00050				<0.00010						
PCB 153			<0.00005			<0.00050				<0.00010						
PCB 180			<0.00005			<0.00050				<0.00010						
PCB 28			<0.00005			<0.00050				<0.00010						
PCB 52			<0.00005			<0.00050				<0.00010						
Sum of PCBs			<0.00035			<0.0035				<0.0007						
1,1,1,2-Tetrachloroethane			<0.050			<0.050				<0.050						
1,1,1-Trichloroethane			<0.050			<0.050				<0.050						
1,1,2,2-Tetrachloroethane			<0.050			<0.050				<0.050						
1,1,2-Trichloroethane			<0.050			<0.050				<0.050						
1,1-Dichloroethane			<0.050			<0.050				<0.050						
1,1-Dichloroethylene			<0.050			<0.050				<0.050						
1,1-Dichloro-1-propene			<0.050			<0.050				<0.050						
1,2,3-Trichloropropane			<0.050			<0.050				<0.050						
1,2,4-Trimethylbenzene			<0.050			<0.050				<0.050						
1,2-Dibromoethane			<0.050			<0.050				<0.050						
1,2-Dichlorobenzene			<0.050			<0.050				<0.050						
1,2-Dichloroethane			<0.050			<0.050				<0.050						
1,2-Dichloropropane			<0.050			<0.050				<0.050						
1,3,5-Trimethylbenzene			<0.050			<0.050				<0.050						
1,3-Dichlorobenzene			<0.050			<0.050				<0.050						
1,3-Dichloropropane			<0.050			<0.050				<0.050						
1,4-Dichlorobenzene			<0.050			<0.050				<0.050						
2,2-Dichloropropane			<0.050			<0.050				<0.050						
2-Chlorotoluene			<0.050			<0.050				<0.050						
4-Chlorotoluene			<0.050			<0.050				<0.050						
Benzene			<0.010			<0.010				<0.010						
Bromobenzene			<0.050			<0.050				<0.050						
Bromochloromethane			<0.050			<0.050				<0.050						
Bromodichloromethane			<0.050			<0.050				<0.050						
Bromoform			<0.050			<0.050				<0.050						
Bromomethane			<0.050			<0.050				<0.050						
Carbon tetrachloride			<0.050			<0.050				<0.050						
Chlorobenzene			<0.050			<0.050				<0.050						
Chlorodibromomethane			<0.050			<0.050				<0.050						
Chloroethane			<0.050			<0.050				<0.050						
Chloroform			<0.050			<0.050				<0.050						
Chloromethane			<0.050			<0.050				<0.050						
cis-1,2-Dichloroethene			<0.050			<0.050				<0.050						
cis-1,3-Dichloropropene			<0.050			<0.050				<0.050						
Dibromomethane			<0.050			<0.050				<0.050						
Dichlorodifluoromethane			<0.050			<0.050				<0.050						
Dichloromethane			<0.050			<0.050				<0.050						
Ethylbenzene			0.033			<0.010				<0.010						
Isopropylbenzene			<0.050			<0.050				<0.050						
M/p-Xylene			<0.010			0.022				<0.010						
n-Propylbenzene			0.066			<0.050				<0.050						
o-Xylene			<0.010			0.012				<0.010						
p-Isopropyltoluene			<0.050			<0.050				<0.050						
Sec-Butylbenzene			0.16			<0.050				<0.050						
Styrene			<0.050			<0.050				<0.050						
Tert-Butylbenzene			<0.050			<0.050				<0.050						
Tetrachloroethylene			<0.050			<0.050				<0.050						
Toluene			<0.010			<0.010				<0.010						
trans-1,2-Dichloroethylene			<0.050			<0.050				<0.050						
trans-1,3-Dichloropropene			<0.050			<0.050				<0.050						
Trichloroethylene (TCE)			<0.050			<0.050				<0.050						
Trichlorofluoromethane			<0.050			<0.050				<0.050						
Vinyl Chloride			<0.050			<0.050				<0.050						
1,2,4-Trichlorobenzene			<0.1			<0.1				<0.1						
1,2-Dichlorobenzene			<0.1			<0.1				<0.1						
1,3-Dichlorobenzene			<0.1			<0.1				<0.1						
1,4-Dichlorobenzene			<0.1			<0.1				<0.1						
2,4,5-Trichlorophenol			<0.1			<0.1				<0.1						
2,4,6-Trichlorophenol			<0.1			<0.1				<0.1						
2,4-Dichlorophenol			<0.1			<0.1				<0.1						
2,4,-Dimethylphenol			<0.1			0.1				<0.1						
2,4,-Dinitrophenol			<0.1			<0.1				<0.1						
2,4-Dinitrotoluene			<0.1			<0.1				<0.1						
2,6-Dinitrotoluene			<0.1			<0.1				<0.1						
2-Chloronaphthalene			<0.1			<0.1				<0.1						
2-Chlorophenol			<0.1			<0.1				<0.1						
2-Methylphenol			<0.1			<0.1				<0.1						
2-Methyl naphthalene			<0.1			2.9				<0.1						
2-Nitroaniline			<0.1			<0.1				<0.1						
2-Nitrophenol			<0.1			<0.1				<0.1						
3-Nitroaniline			<0.1			<0.1				<0.1						
3/4-Methylphenol			<0.1			0.2				<0.1						
4-Bromophenyl phenyl ether			<0.1			<0.1				<0.1						
4-Chloro, 3-methylphenol			<0.1			<0.1				<0.1						
4-Chloroaniline			<0.1			<0.1				<0.1						
4-Chlorophenyl phenylether			<0.1			<0.1				<0.1						
4-Nitroaniline			<0.1			<0.1				<0.1						

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Date	10-Sep-13	10-Sep-13	10-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	12-Sep-13	11-Sep-13	11-Sep-13	9-Sep-13
Sample ID	WS14	TP11	TP11	BH46	WS23	WS13	TP16	TP16	WS21	TP14	TP14	TP14	WS14	SCPT35	WS05	SCPT24A
Depth	0.3	0.4	1.6	0.5	0.25	0.3	0.1-0.3	0.6-0.9	0.5	0.3-0.5	1.7-1.9	2.6-2.8	1.2-1.67	0.5	1.2-2	0.5
4-Nitrophenol			<0.1			<0.1				<0.1						
Acenaphthene			<0.1			2.7				<0.1						
Acenaphthylene			<0.1			<0.1				<0.1						
Anthracene			<0.1			5.5				<0.1						
Azobenzene			<0.1			<0.1				<0.1						
Benzo(a)anthracene			<0.1			8				0.2						
Benzo(a)pyrene			<0.1			7.2				0.1						
Benzo(b/k)fluoranthene			<0.1			14				0.2						
Benzo(ghi)perylene			<0.1			2.8				<0.1						
Bis(2-chloroethoxy) methane			<0.1			<0.1				<0.1						
Bis(2-chloroethyl)ether			<0.1			<0.1				<0.1						
Bis(2-chloroisopropyl) ether			<0.1			<0.1				<0.1						
Bis(2-ethylhexyl) phthalate			<0.1			0.2				<0.1						
Butyl benzyl phthalate			<0.1			<0.1				<0.1						
Carbazole			<0.1			3.7				<0.1						
Chrysene			<0.1			8.2				0.2						
Di-n-butyl phthalate			<0.1			<0.1				<0.1						
Di-n-octyl phthalate			<0.1			<0.1				<0.1						
Dibenz(ah)anthracene			<0.1			1.1				<0.1						
Dibenzofuran			<0.1			3.8				<0.1						
Diethyl phthalate			<0.1			<0.1				<0.1						
Dimethyl phthalate			<0.1			<0.1				<0.1						
Fluoranthene			<0.1			12				0.4						
Fluorene			<0.1			3.8				<0.1						
Hexachlorobenzene			<0.1			<0.1				<0.1						
Hexachlorobutadiene			<0.1			<0.1				<0.1						
Hexachlorocyclopentadiene			<0.1			<0.1				<0.1						
Hexachloroethane			<0.1			<0.1				<0.1						
Indeno(1,2,3,cd)pyrene			<0.1			3.2				<0.1						
Isophorone			<0.1			<0.1				<0.1						
Naphthalene			<0.1			7.1				<0.1						
Nitrobenzene			<0.1			<0.1				<0.1						
Pentachlorophenol			<0.1			<0.1				<0.1						
Phenanthrene			<0.1			13				0.2						
Phenol			<0.1			<0.1				<0.1						
Pyrene			<0.1			11				0.4						

Substance		Screening Criteria		Number of Analyses	Reported Minimum Value	Reported Maximum Value	Statistical Mean	Standard Deviation	Number of Exceedances
Moisture Content @ 105C		-	-	168	2.6	32	17.3	7.07	-
Moisture Content @ 40C		-	-	168	2.8	39	16.4	6.68	-
		-	-						-
Asbestos		-	-						-
Asbestos Quantification	%	0.001	IOM 1988	13	<0.001	0.11	0.027	0.033	9
pH		-	-	167	7.2	10.8	8.17	0.48	-
Fraction Organic Carbon (FOC)	Unitless	-	-	32	0.0026	2.1	0.16	0.42	-
		-	-						-
Arsenic	mg/kg	640	Commercial SGV/GAC2.5% SOM	168	4	97	18	12.7	0
Boron	mg/kg	192000	Commercial SGV/GAC2.5% SOM	168	<1	29	1.22	2.2	0
Cadmium	mg/kg	230	Commercial SGV/GAC2.5% SOM	168	<1	3	1.02	0.17	0
Chromium (total)	mg/kg	-	-	168	5	1100	31.2	83.7	-
Chromium (III)	mg/kg	8840	Commercial SGV/GAC2.5% SOM	168	5	1100	31.2	83.7	0
Chromium (IV)	mg/kg	35	Commercial SGV/GAC2.5% SOM	168	<1	<1	1	0	0
Copper	mg/kg	71700	Commercial SGV/GAC2.5% SOM	168	6	2900	98.5	287	0
Lead	mg/kg	750	Withdrawn SGV	168	11	11000	330	924	19
Mercury	mg/kg	11	Commercial SGV/GAC2.5% SOM	168	<1	4	1.04	0.27	0
Nickel	mg/kg	1800	Commercial SGV/GAC2.5% SOM	168	7	2700	39.9	207	1
Selenium	mg/kg	13000	Commercial SGV/GAC2.5% SOM	168	<3	50	3.28	3.63	0
Zinc	mg/kg	665000	Commercial SGV/GAC2.5% SOM	168	40	1900	155	185	0
		-	-						-
Total cyanide	mg/kg	20	Dutch Intervention Value	167	<1	<1	1	0	0
Free cyanide	mg/kg	20	Dutch Intervention Value	167	<1	<1	1	0	0
Total sulphate	mg/kg	-	-	167	0.05	1.8	0.28	0.29	-
Phenol	mg/kg	1400	Commercial SGV/GAC2.5% SOM	167	<0.01	28	0.24	2.18	0
		-	-						-
Acenaphthene	mg/kg	141	Commercial SGV/GAC2.5% SOM	167	<0.1	25	0.79	2.71	0
Acenaphthylene	mg/kg	212	Commercial SGV/GAC2.5% SOM	167	<0.1	4.6	0.19	0.43	0
Anthracene	mg/kg	540000	Commercial SGV/GAC2.5% SOM	167	<0.1	54	1.94	5.83	0
Benzo(a)anthracene	mg/kg	95	Commercial SGV/GAC2.5% SOM	167	<0.1	73	3.62	9.63	0
Benzo(a)pyrene	mg/kg	14	Commercial SGV/GAC2.5% SOM	167	<0.1	74	2.92	8.6	7
Benzo(b)fluoranthene	mg/kg	100	Commercial SGV/GAC2.5% SOM	167	<0.1	73	3.2	9.77	0
Benzo(ghi)perylene	mg/kg	660	Commercial SGV/GAC2.5% SOM	167	<0.1	25	1.37	3.67	0
Benzo(k)fluoranthene	mg/kg	140	Commercial SGV/GAC2.5% SOM	167	<0.1	68	2.42	6.8	0
Chrysene	mg/kg	140	Commercial SGV/GAC2.5% SOM	167	<0.1	74	3.4	9.09	0
Dibenzo(ah)anthracene	mg/kg	13	Commercial SGV/GAC2.5% SOM	167	<0.1	7.5	0.43	1.03	0
Fluoranthene	mg/kg	23000	Commercial SGV/GAC2.5% SOM	167	<0.1	160	7.94	20.5	0
Fluorene	mg/kg	69000	Commercial SGV/GAC2.5% SOM	167	<0.1	31	0.87	3.22	0
Indeno(1,2,3cd)pyrene	mg/kg	61	Commercial SGV/GAC2.5% SOM	167	<0.1	25	1.29	3.49	0
Naphthalene	mg/kg	183	Commercial SGV/GAC2.5% SOM	167	<0.1	71	1.39	7.5	0
Phenanthrene	mg/kg	22000	Commercial SGV/GAC2.5% SOM	167	<0.1	170	5.72	17.2	0
Pyrene	mg/kg	54000	Commercial SGV/GAC2.5% SOM	167	<0.1	140	6.97	17.8	0
Polyaromatic Hydrocarbons (Total)	mg/kg	-	-	167	<0.1	1000	43.4	118	-
		-	-						-
TPH (C8-C10)	mg/kg	190	Commercial SGV/GAC2.5% SOM	93	<1	<10	2.17	3.03	0
TPH (C10-C12)	mg/kg	118	Commercial SGV/GAC2.5% SOM	93	<1	170	3.94	17.6	1
TPH (C12-C16)	mg/kg	59	Commercial SGV/GAC2.5% SOM	93	<1	230	7.62	25.8	3
TPH (C16-C21)	mg/kg	28000	Commercial SGV/GAC2.5% SOM	93	<1	530	32.3	94.9	0
TPH (C21-C35)	mg/kg	28000	Commercial SGV/GAC2.5% SOM	93	<1	1200	79.9	218	0
TPH (C35-C40)	mg/kg	28000	Commercial SGV/GAC2.5% SOM	94	<1	280	15.5	42.9	0
TPH (C8 - C40)	mg/kg	-	-	93	<1	2100	134	375	-
		-	-						-
TPH Aliphatics >C5-C6	mg/kg	558	Commercial SGV/GAC2.5% SOM	74	<0.1	<0.4	0.12	0.058	0
TPH Aliphatics >C6-C8	mg/kg	322	Commercial SGV/GAC2.5% SOM	74	<0.1	<4	0.21	0.55	0
TPH Aliphatics >C8-C10	mg/kg	190	Commercial SGV/GAC2.5% SOM	74	<0.1	60	1.34	7.25	0
TPH Aliphatics >C10-C12	mg/kg	118	Commercial SGV/GAC2.5% SOM	74	<1	180	7.96	24.2	1
TPH Aliphatics >C12-C16	mg/kg	59	Commercial SGV/GAC2.5% SOM	74	<2	710	22.2	93.3	3
TPH Aliphatics >C16-C21	mg/kg	-	-	74	<1	660	17.9	78	-
TPH Aliphatics >C21-C35	mg/kg	-	-	74	<4	180	23.6	43	-
TPH Aliphatics >C16-C35	mg/kg	1800000	Commercial SGV/GAC2.5% SOM	74	<5	840	41.3	105	0
TPH Aliphatics >C35-C44	mg/kg	1800000	Commercial SGV/GAC2.5% SOM	74	<1	125	9.7	22.8	0
TPH Total Aliphatics (C5-C44)	mg/kg	-	-	50	1	1800	106	270	-
		-	-						-
TPH Aromatics >C6-C7	mg/kg	2260	Commercial SGV/GAC2.5% SOM	74	<0.1	<0.4	0.12	0.058	0
TPH Aromatics >C7-C8	mg/kg	1920	Commercial SGV/GAC2.5% SOM	74	<0.1	<0.4	0.12	0.058	0
TPH Aromatics >C8-C10	mg/kg	1500	Commercial SGV/GAC2.5% SOM	74	<0.1	68	1.07	7.89	0
TPH Aromatics >C10-C12	mg/kg	899	Commercial SGV/GAC2.5% SOM	74	<1	77	4.49	9.51	0
TPH Aromatics >C12-C16	mg/kg	37000	Commercial SGV/GAC2.5% SOM	74	<1	270	12.3	33.8	0
TPH Aromatics >C16-C21	mg/kg	28000	Commercial SGV/GAC2.5% SOM	74	<1	1000	52.1	144	0
TPH Aromatics >C21-C35	mg/kg	28000	Commercial SGV/GAC2.5% SOM	74	<1	1700	114	281	0
TPH Aromatics >C35-C44	mg/kg	28000	Commercial SGV/GAC2.5% SOM	74	<1	215	20.5	44	0
Total Aromatics (C6-C44)	mg/kg	-	-	57		3300	257	557	-
Total Aromatics and Aliphatics	mg/kg	-	-	59	2	3500	338	631	-
		-	-						-
Benzene	mg/kg	50	Commercial SGV/GAC2.5% SOM	74	<0.01	<10	0.15	1.16	0
Toluene	mg/kg	1900	Commercial SGV/GAC2.5% SOM	74	<0.01	16	0.23	1.86	0
Ethylbenzene	mg/kg	1200	Commercial SGV/GAC2.5% SOM	74	<0.01	<10	0.15	1.16	0
Methyl tert-Butyl Ether	mg/kg	13000	Commercial SGV/GAC2.5% SOM	74	<0.01	<10	0.15	1.16	0
Ortho-Xylene	mg/kg	1100	Commercial SGV/GAC2.5% SOM	74	<0.01	14	0.23	1.64	0
Meta/Para-Xylene	mg/kg	1400	Commercial SGV/GAC2.5% SOM	74	<0.01	14	0.21	1.63	0
		-	-						-
PCB 101	mg/kg	-	-	41	<0.00005	0.004	0.00043	0.00068	-
PCB 118	mg/kg	-	-	41	<0.00005	0.0021	0.00034	0.00041	-
PCB 138	mg/kg	-	-	41	<0.00005	0.0034	0.0005	0.0007	-
PCB 153	mg/kg	-	-	41	<0.00005	0.003	0.00049	0.00063	-
PCB 180	mg/kg	-	-	41	<0.00005	0.0041	0.00052	0.00076	-
PCB 28	mg/kg	-	-	41	<0.00005	0.0007	0.00024	0.00023	-
PCB 52	mg/kg	-	-	41	<0.00005	0.0032	0.00037	0.00057	-
Sum of PCBs	mg/kg	-	-	41	<0.00035	0.017	0.0029	0.0036	-
		-	-						-
1,1,1,2-Tetrachloroethane	mg/kg	260	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
1,1,1-Trichloroethane	mg/kg	1400	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
1,1,2,2-Tetrachloroethane	mg/kg	580	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
1,1,2-Trichloroethane	mg/kg	190	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
1,1-Dichloroethane	mg/kg	450	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
1,1-Dichloroethylene	mg/kg	46	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
1,1-Dichloro-1-propene	mg/kg	-	-	53	<0.05	<0.2	0.058	0.031	-
1,2,3-Trichloropropane	mg/kg	-	-	53	<0.05	<0.2	0.058	0.031	-
1,2,4-Trimethylbenzene	mg/kg	99	Commercial SGV/GAC2.5% SOM	53	<0.05	17	0.38	2.33	0
1,2-Dibromoethane	mg/kg	-	-	53	<0.05	<0.2	0.058	0.031	-
1,2-Dichlorobenzene	mg/kg	1370	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
1,2-Dichloroethane	mg/kg	1	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
1,2-Dichloropropane	mg/kg	5.9	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
1,3,5-Trimethylbenzene	mg/kg	-	-	53	<0.05	11	0.27	1.5	-
1,3-Dichlorobenzene	mg/kg	77	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
1,3-Dichloropropane	mg/kg	-	-	53	<0.05	<0.2	0.058	0.031	-
1,4-Dichlorobenzene	mg/kg	540	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
2,2-Dichloropropane	mg/kg	-	-	53	<0.05	<0.2	0.058	0.031	-

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Substance		Screening Criteria		Number of Analyses	Reported Minimum Value	Reported Maximum Value	Statistical Mean	Standard Deviation	Number of Exceedances
2-Chlorotoluene	mg/kg	-	-	53	<0.05	<0.2	0.058	0.031	-
4-Chlorotoluene	mg/kg	-	-	53	<0.05	<0.2	0.058	0.031	-
Benzene	mg/kg	50	Commercial SGV/GAC2.5% SOM	54	<0.01	<10	0.2	1.36	0
Bromobenzene	mg/kg	220	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
Bromochloromethane	mg/kg	-	-	53	<0.05	<0.2	0.058	0.031	-
Bromodichloromethane	mg/kg	3.7	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
Bromoform	mg/kg	1500	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
Bromomethane	mg/kg	-	-	53	<0.05	<0.2	0.058	0.031	-
Carbon tetrachloride	mg/kg	6.6	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
Chlorobenzene	mg/kg	130	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
Chlorodibromomethane	mg/kg	-	-	53	<0.05	<0.2	0.058	0.031	-
Chloroethane	mg/kg	1300	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
Chloroform	mg/kg	190	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
Chloromethane	mg/kg	1.2	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
cis-1,2-Dichloroethene	mg/kg	24	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
cis-1,3-Dichloropropene	mg/kg	-	-	53	<0.05	<0.2	0.058	0.031	-
Dibromomethane	mg/kg	-	-	53	<0.05	<0.2	0.058	0.031	-
Dichlorodifluoromethane	mg/kg	-	-	53	<0.05	<0.2	0.058	0.031	-
Dichloromethane	mg/kg	360	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
Ethylbenzene	mg/kg	1200	Commercial SGV/GAC2.5% SOM	54	<0.01	<10	0.2	1.36	0
Isopropylbenzene	mg/kg	950	Commercial SGV/GAC2.5% SOM	53	<0.05	0.33	0.064	0.048	0
M/p-Xylene	mg/kg	1400	Commercial SGV/GAC2.5% SOM	54	<0.01	14	0.28	1.9	0
n-Propylbenzene	mg/kg	981	Commercial SGV/GAC2.5% SOM	53	<0.05	0.82	0.073	0.11	0
o-Xylene	mg/kg	1100	Commercial SGV/GAC2.5% SOM	54	<0.01	14	0.31	1.92	0
p-Isopropyltoluene	mg/kg	-	-	53	<0.05	0.31	0.063	0.046	-
Sec-Butylbenzene	mg/kg	-	-	53	<0.05	0.51	0.069	0.07	-
Styrene	mg/kg	1440	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.06	0.033	0
Tert-Butylbenzene	mg/kg	-	-	53	<0.05	2.1	0.097	0.28	-
Tetrachloroethylene	mg/kg	290	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
Toluene	mg/kg	1900	Commercial SGV/GAC2.5% SOM	54	<0.01	16	0.31	2.18	0
trans-1,2-Dichloroethylene	mg/kg	40	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	0
trans-1,3-Dichloropropene	mg/kg	-	-	53	<0.05	<0.2	0.058	0.031	-
Trichloroethylene (TCE)	mg/kg	25	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.059	0.031	0
Trichlorofluoromethane	mg/kg	-	-	53	<0.05	<0.2	0.058	0.031	-
Vinyl Chloride	mg/kg	0.081	Commercial SGV/GAC2.5% SOM	53	<0.05	<0.2	0.058	0.031	4
		-	-						-
1,2,4-Trichlorobenzene	mg/kg	560	Commercial SGV/GAC2.5% SOM	53	<0.1	<0.1	0.1	5.60E-17	0
1,2-Dichlorobenzene	mg/kg	1370	Commercial SGV/GAC2.5% SOM	53	<0.1	<0.1	0.1	5.60E-17	0
1,3-Dichlorobenzene	mg/kg	77	Commercial SGV/GAC2.5% SOM	53	<0.1	<0.1	0.1	5.60E-17	0
1,4-Dichlorobenzene	mg/kg	540	Commercial SGV/GAC2.5% SOM	53	<0.1	<0.1	0.1	5.60E-17	0
2,4,5-Trichlorophenol	mg/kg	4000	Commercial SGV/GAC2.5% SOM	53	<0.1	<0.1	0.1	5.60E-17	0
2,4,6-Trichlorophenol	mg/kg	4000	Commercial SGV/GAC2.5% SOM	53	<0.1	<0.1	0.1	5.60E-17	0
2,4-Dichlorophenol	mg/kg	4000	Commercial SGV/GAC2.5% SOM	53	<0.1	<0.1	0.1	5.60E-17	0
2,4,-Dimethylphenol	mg/kg	3140	Commercial SGV/GAC2.5% SOM	53	<0.1	0.4	0.11	0.049	0
2,4,-Dinitrophenol	mg/kg	-	-	53	<0.1	<0.1	0.1	5.60E-17	-
2,4-Dinitrotoluene	mg/kg	299	Commercial SGV/GAC2.5% SOM	53	<0.1	<0.1	0.1	5.60E-17	0
2,6-Dinitrotoluene	mg/kg	622	Commercial SGV/GAC2.5% SOM	53	<0.1	<0.1	0.1	5.60E-17	0
2-Chloronaphthalene	mg/kg	280	Commercial SGV/GAC2.5% SOM	53	<0.1	<0.1	0.1	5.60E-17	0
2-Chlorophenol	mg/kg	4000	Commercial SGV/GAC2.5% SOM	53	<0.1	<0.1	0.1	5.60E-17	0
2-Methylphenol	mg/kg	-	-	53	<0.1	0.5	0.11	0.056	-
2-Methyl naphthalene	mg/kg	-	-	53	<0.1	20	1.01	3.45	-
2-Nitroaniline	mg/kg	-	-	53	<0.1	<0.1	0.1	5.60E-17	-
2-Nitrophenol	mg/kg	-	-	53	<0.1	<0.1	0.1	5.60E-17	-
3-Nitroaniline	mg/kg	-	-	53	<0.1	3.2	0.3	0.63	-
3/4-Methylphenol	mg/kg	-	-	53	<0.1	0.6	0.11	0.071	-
4-Bromophenyl phenyl ether	mg/kg	-	-	53	<0.1	<0.1	0.1	5.60E-17	-
4-Chloro, 3-methylphenol	mg/kg	4000	Commercial SGV/GAC2.5% SOM	53	<0.1	<0.1	0.1	5.60E-17	0
4-Chloroaniline	mg/kg	-	-	53	<0.1	0.9	0.14	0.15	-
4-Chlorophenyl phenylether	mg/kg	-	-	53	<0.1	<0.1	0.1	5.60E-17	-
4-Nitroaniline	mg/kg	-	-	53	<0.1	3.2	0.29	0.62	-
4-Nitrophenol	mg/kg	-	-	53	<0.1	<0.1	0.1	5.60E-17	-
Acenaphthene	mg/kg	141	Commercial SGV/GAC2.5% SOM	53	<0.1	25	1.44	4.22	0
Acenaphthylene	mg/kg	212	Commercial SGV/GAC2.5% SOM	53	<0.1	4.6	0.31	0.74	0
Anthracene	mg/kg	540000	Commercial SGV/GAC2.5% SOM	53	<0.1	54	3.62	9.01	0
Azobenzene	mg/kg	-	-	53	<0.1	<0.1	0.1	5.60E-17	-
Benzo(a)anthracene	mg/kg	95	Commercial SGV/GAC2.5% SOM	53	<0.1	73	6.81	14.9	0
Benzo(a)pyrene	mg/kg	14	Commercial SGV/GAC2.5% SOM	53	<0.1	74	5.85	13.9	5
Benzo(b/k)fluoranthene	mg/kg	100	Commercial SGV/GAC2.5% SOM	53	<0.1	140	11.3	26	1
Benzo(ghi)perylene	mg/kg	660	Commercial SGV/GAC2.5% SOM	53	<0.1	25	2.66	5.89	0
Bis(2-chloroethoxy) methane	mg/kg	-	-	53	<0.1	<0.1	0.1	5.60E-17	-
Bis(2-chloroethyl)ether	mg/kg	-	-	53	<0.1	<0.1	0.1	5.60E-17	-
Bis(2-chloroisopropyl) ether	mg/kg	-	-	53	<0.1	0.2	0.1	0.014	-
Bis(2-ethylhexyl) phthalate	mg/kg	21.6	Commercial SGV/GAC2.5% SOM	53	<0.1	2.8	0.37	0.57	0
Butyl benzyl phthalate	mg/kg	64.7	Commercial SGV/GAC2.5% SOM	53	<0.1	<0.1	0.1	5.60E-17	0
Carbazole	mg/kg	-	-	53	<0.1	89	2.53	12.3	-
Chrysene	mg/kg	140	Commercial SGV/GAC2.5% SOM	53	<0.1	74	6.48	14.2	0
Di-n-butyl phthalate	mg/kg	11.4	Commercial SGV/GAC2.5% SOM	53	<0.1	2	0.16	0.28	0
Di-n-octyl phthalate	mg/kg	81.5	Commercial SGV/GAC2.5% SOM	53	<0.1	<0.1	0.1	5.60E-17	0
Dibenz(ah)anthracene	mg/kg	13	Commercial SGV/GAC2.5% SOM	53	<0.1	7.5	0.79	1.66	0
Dibenzofuran	mg/kg	-	-	53	<0.1	23	1.31	4.03	-
Diethyl phthalate	mg/kg	29.1	Commercial SGV/GAC2.5% SOM	53	<0.1	<0.1	0.1	5.60E-17	0
Dimethyl phthalate	mg/kg	-	-	53	<0.1	<0.1	0.1	5.60E-17	-
Fluoranthene	mg/kg	23000	Commercial SGV/GAC2.5% SOM	53	<0.1	160	12.9	28.2	0
Fluorene	mg/kg	69000	Commercial SGV/GAC2.5% SOM	53	<0.1	31	1.65	5.11	0
Hexachlorobenzene	mg/kg	53	Commercial SGV/GAC2.5% SOM	53	<0.1	<0.1	0.1	5.60E-17	0
Hexachlorobutadiene	mg/kg	69	Commercial SGV/GAC2.5% SOM	53	<0.1	<0.1	0.1	5.60E-17	0
Hexachlorocyclopentadiene	mg/kg	-	-	53	<0.1	<0.1	0.1	5.60E-17	-
Hexachloroethane	mg/kg	20.1	Commercial SGV/GAC2.5% SOM	53	<0.1	<0.1	0.1	5.60E-17	0
Indeno(1,2,3,cd)pyrene	mg/kg	61	Commercial SGV/GAC2.5% SOM	53	<0.1	25	2.55	5.64	0
Isophorone	mg/kg	-	-	53	<0.1	<0.1	0.1	5.60E-17	-
Naphthalene	mg/kg	183	Commercial SGV/GAC2.5% SOM	53	<0.1	59	2.26	8.98	0
Nitrobenzene	mg/kg	-	-	53	<0.1	<0.1	0.1	5.60E-17	-
Pentachlorophenol	mg/kg	1300	Commercial SGV/GAC2.5% SOM	53	<0.1	<0.1	0.1	5.60E-17	0
Phenanthrene	mg/kg	22000	Commercial SGV/GAC2.5% SOM	53	<0.1	170	9.83	25.7	0
Phenol	mg/kg	1400	Commercial SGV/GAC2.5% SOM	53	<0.1	<0.1	0.1	5.60E-17	0
Pyrene	mg/kg	54000	Commercial SGV/GAC2.5% SOM	53	<0.1	140	11.3	24.9	0
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Grontmij Limited

Screening Level	Substance	Units																														
Multiplier:	**1 x"<"**		**Highways Agency | A63 - Castle Street SOILS (112630)**																													
	Strata		Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural
	Observed Contamination																															
	Sample Description		Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Sandy Soil	Clay	Clay	
	Date	-	08-Jul-13	08-Jul-13	17-Jul-13	17-Jul-13	18-Jul-13	19-Jul-13	19-Jul-13	24-Jul-13	24-Jul-13	24-Jul-13	24-Jul-13	26-Jul-13	26-Jul-13	31-Jul-13	01-Aug-13	02-Aug-13	02-Aug-13	06-Aug-13	06-Aug-13	06-Aug-13	06-Aug-13	6-Aiug-13	09-Aug-13	09-Aug-13	09-Aug-13	12-Aug-13	12-Aug-13				
	Sample ID	-	BH35	BH36	BH19A	BH19A	BH33	BH33	BH33	BH37	BH22	BH11	BH11	BH02	BH02	BH04	BH40A	BH07	BH03	BH01	BH01	BH09	BH09	BH45	BH17	BH17	SBP03	BH06	BH43				
	Depth	m	5.8	7.1	4.2	8.2	2	5	7	6.5	2.9	5.2	3	2.8	4.7	5.4	10.7	8.5	4.5	2	7	4.4	8	5	4.6	7.8	0.15-0.5	3	4.5				
-	Moisture Content @ 105C		29	32	29	31	25	25	28	30	28	12	30	27	26	32	24	30	27	24	53	29	30	26	30	28	12		26			
-	Moisture Content @ 40C		22	27	26	30	16	24	30	28	29	26	29	27	27	32	21	31	29	25	54	29	31	26	30	30	11		25			
-																																
-	Asbestos		N.D.	N.D.	-	-	N.D.	-	-	-	N.D.	-	N.D.	N.D.	-	N.D.	-	-	-	N.D.	-	-	-	-	-	-	N.D.	N.D.	-			
0.001	Asbestos Quantification	%																														
-	pH		8.2	7.9	8	8.4	7.7	8.3	7.7	7.8	8.3	7.9	8.1	7.7	7.3	7.9	8.7	8.4	8	8.5	8.1	7.8	8.3	7.7	8	8.3	8.3		8.1			
-	Fraction Organic Carbon (FOC)	Unitless	0.014	0.013	0.012	0.0088	-	-	-	-	-	-	0.01	0.011	-		-	0.0086	-	-	0.15	-	0.008	0.015	0.0095	-	-		0.0081			
-																																
640	Arsenic	mg/kg	11	14	10	15	13	8	8	12	10	9	10	12	9	9	7	9	9	21	19	9	9	10	12	9	3		9			
192000	Boron	mg/kg	<1	18	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	7	2	<1	<1	7	<1	1	<1	<1	<1	<1		<1			
230	Cadmium	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1			
-	Chromium (total)	mg/kg	33	31	22	19	31	17	17	20	19	15	26	18	15	18	18	20	15	26	28	22	21	21	24	19	6		23			
8840	Chromium (III)	mg/kg	33	31	22	19	31	17	17	20	19	15	26	18	15	18	18	20	15	26	28	22	21	21	24	19	6		23			
35	Chromium (IV)	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1			
71700	Copper	mg/kg	13	14	14	12	37	12	10	14	27	10	13	13	11	12	12	12	9	19	17	13	12	17	16	11	5		15			
750	Lead	mg/kg	16	15	15	12	81	12	10	25	24	11	17	14	11	12	12	12	10	34	23	13	13	22	16	12	18		15			
11	Mercury	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1			
1800	Nickel	mg/kg	23	22	23	20	30	19	16	22	19	17	24	21	17	20	19	20	15	28	36	23	23	23	24	20	5		23			
13000	Selenium	mg/kg	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3			
665000	Zinc	mg/kg	61	59	62	55	110	51	45	62	58	47	63	62	47	40	49	52	40	80	58	57	55	58	65	51	39		59			
-																																
20	Total cyanide	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1			
20	Free cyanide	mg/kg	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1			
-	Total sulphate	mg/kg	0.61	0.97	1.1	1.1	0.25	0.62	0.65	0.84	0.68	0.74	0.56	1.3	0.78	0.91	0.07	0.55	0.99	0.13	16	0.7	0.52	1.3	1.1	0.7	0.05		0.2			
1400	Phenol	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01			
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141	Acenaphthene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1			
212	Acenaphthylene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1			
540000	Anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2		<0.1			
95	Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3		<0.1			
14	Benzo(a)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2		<0.1			
100	Benzo(b)fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2		<0.1			
660	Benzo(ghi)perylene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1			
140	Benzo(k)fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2		<0.1			
140	Chrysene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3		<0.1			
13	Dibenzo(ah)anthracene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1			
23000	Fluoranthene	mg/kg	<0.1	<0.1	<0.1	<0.1	1.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.9		<0.1			
69000	Fluorene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1			
61	Indeno(1,2,3cd)pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1			
183	Naphthalene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		<0.1			
22000	Phenanthrene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.7		<0.1			
54000	Pyrene	mg/kg	<0.1	<0.1	<0.1	<0.1	0.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.7		<0.1			
-	Polyaromatic Hydrocarbons (Total)	mg/kg	<0.1	<0.1	<0.1	<0.1	5.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.7		<0.1			
-																																
190	TPH (C8-C10)	mg/kg	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			<1			
118	TPH (C10-C12)	mg/kg	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			<1			
59	TPH (C12-C16)	mg/kg	<1	<1	<1	2		<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1			<1			
28000	TPH (C16-C21)	mg/kg	<1	<1	<1	7		<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	3	<1	<1	<1	<1	<1	<1			<1			
28000	TPH (C35-C40)	mg/kg	<1	<1	<1	<1		<1	3	<1	<1	<1	<1		<1	<1	<1	<1	<1	4	<1	<1	<1	<1	<1	<1			<1			
-	TPH (C8 - C40)	mg/kg	<1	<1	<1	15		<1	3	<1	<1	<1	<1		<1	<1	<1	<1	<1	31	25	<1	<1	2	<1	<1			<1			
-																																
558	TPH Aliphatics >C5-C6	mg/kg					<0.100							<0.100													<0.100					
322	TPH Aliphatics >C6-C8	mg/kg					<0.10							<0.10													<0.10					
190	TPH Aliphatics >C8-C10	mg/kg					<0.10							<0.10													<0.10					
118	TPH Aliphatics >C10-C12	mg/kg					<1							<1													<1					
59	TPH Aliphatics >C12-C16	mg/kg					<2							<2													<2					
-	TPH Aliphatics >C16-C21	mg/kg					<1							<1													<1					
-	TPH Aliphatics >C21-C35	mg/kg					<4							<4													8					
1800000	TPH Aliphatics >C16-C35	mg/kg					<5							<5													<9					
1800000	TPH Aliphatics >C35-C44	mg/kg					<1							<1													6					
-	TPH Total Aliphatics (C5-C44)	mg/kg					**N.D.**							**N.D.**													14					
-																																
2260	TPH Aromatics >C6-C7	mg/kg					<0.10							<0.10													<0.10					
1920	TPH Aromatics >C7-C8	mg/kg					<0.10							<0.10													<0.10					
1500	TPH Aromatics >C8-C10	mg/kg					<0.10							<0.10													<0.10					
899	TPH Aromatics >C10-C12	mg/kg					<1							<1													<1					
37000	TPH Aromatics >C12-C16	mg/kg					<1							<1													<1					
28000	TPH Aromatics >C16-C21	mg/kg					<1							<1													1					
28000	TPH Aromatics >C21-C35	mg/kg					1							<1													3					
28000	TPH Aromatics >C35-C44	mg/kg					<1							<1													1					
-	Total Aromatics (C6-C44)	mg/kg					1							**N.D.**													5					
-	Total Aromatics and Aliphatics	mg/kg					1							**N.D.**													19					
-																																
50	Benzene	mg/kg					<0.010							<0.010													<0.010					
1900	Toluene	mg/kg					<0.010							<0.010													<0.010					
1200	Ethylbenzene	mg/kg					<0.010							<0.010													<0.010					
13000	Methyl tert-Butyl Ether	mg/kg					<0.010							<0.010													<0.010					
1100	Ortho-Xylene	mg/kg					<0.010							<0.010													<0.010					
1400	Meta/Para-Xylene	mg/kg					<0.010							<0.010													<0.010					
-																																
-	PCB 101	mg/kg																														
-	PCB 118	mg/kg																														
-	PCB 138	mg/kg																														
-	PCB 153	mg/kg																														
-	PCB 180	mg/kg																														
-	PCB 28	mg/kg																														
-	PCB 52	mg/kg																														
1	Sum of PCBs	mg/kg																														
-																																
260	1,1,1,2-Tetrachloroethane	mg/kg								<0.050																						
1400	1,1,1-Trichloroethane	mg/kg								<0.050																						
580	1,1,2,2-Tetrachloroethane	mg/kg								<0.050																						
190	1,1,2-Trichloroethane	mg/kg								<0.050																						
450	1,1-Dichloroethane	mg/kg								<0.050																						
46	1,1-Dichloroethylene	mg/kg								<0.050																						
-	1,1-Dichloro-1-propene	mg/kg								<0.050																						
-	1,2,3-Trichloropropane	mg/kg								<0.050																						
99	1,2,4-Trimethylbenzene	mg/kg								<0.050																						
-	1,2-Dibromoethane	mg/kg								<0.050																						

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	Date	-	08-Jul-13	08-Jul-13	17-Jul-13	17-Jul-13	18-Jul-13	19-Jul-13	19-Jul-13	24-Jul-13	24-Jul-13	24-Jul-13	24-Jul-13	26-Jul-13	26-Jul-13	31-Jul-13	01-Aug-13	02-Aug-13	02-Aug-13	06-Aug-13	06-Aug-13	06-Aug-13	06-Aug-13	6-Aiug-13	09-Aug-13	09-Aug-13	09-Aug-13	12-Aug-13	12-Aug-13
	Sample ID	-	BH35	BH36	BH19A	BH19A	BH33	BH33	BH33	BH37	BH22	BH11	BH11	BH02	BH02	BH04	BH40A	BH07	BH03	BH01	BH01	BH09	BH09	BH45	BH17	BH17	SBP03	BH06	BH43
	Depth	m	5.8	7.1	4.2	8.2	2	5	7	6.5	2.9	5.2	3	2.8	4.7	5.4	10.7	8.5	4.5	2	7	4.4	8	5	4.6	7.8	0.15-0.5	3	4.5
1370	1,2-Dichlorobenzene	mg/kg								<0.050																			
1	1,2-Dichloroethane	mg/kg								<0.050																			
5.9	1,2-Dichloropropane	mg/kg								<0.050																			
-	1,3,5-Trimethylbenzene	mg/kg								<0.050																			
77	1,3-Dichlorobenzene	mg/kg								<0.050																			
-	1,3-Dichloropropane	mg/kg								<0.050																			
540	1,4-Dichlorobenzene	mg/kg								<0.050																			
-	2,2-Dichloropropane	mg/kg								<0.050																			
-	2-Chlorotoluene	mg/kg								<0.050																			
-	4-Chlorotoluene	mg/kg								<0.050																			
50	Benzene	mg/kg								<0.010																			
220	Bromobenzene	mg/kg								<0.050																			
-	Bromochloromethane	mg/kg								<0.050																			
3.7	Bromodichloromethane	mg/kg								<0.050																			
1500	Bromoform	mg/kg								<0.050																			
-	Bromomethane	mg/kg								<0.050																			
6.6	Carbon tetrachloride	mg/kg								<0.050																			
130	Chlorobenzene	mg/kg								<0.050																			
-	Chlorodibromomethane	mg/kg								<0.050																			
1300	Chloroethane	mg/kg								<0.050																			
190	Chloroform	mg/kg								<0.050																			
1.2	Chloromethane	mg/kg								<0.050																			
24	cis-1,2-Dichloroethene	mg/kg								<0.050																			
-	cis-1,3-Dichloropropene	mg/kg								<0.050																			
-	Dibromomethane	mg/kg								<0.050																			
-	Dichlorodifluoromethane	mg/kg								<0.050																			
360	Dichloromethane	mg/kg								<0.050																			
1200	Ethylbenzene	mg/kg								<0.010																			
950	Isopropylbenzene	mg/kg								<0.050																			
1400	M/p-Xylene	mg/kg								<0.010																			
981	n-Propylbenzene	mg/kg								<0.050																			
1100	o-Xylene	mg/kg								<0.010																			
-	p-Isopropyltoluene	mg/kg								<0.050																			
-	Sec-Butylbenzene	mg/kg								<0.050																			
1440	Styrene	mg/kg								<0.050																			
-	Tert-Butylbenzene	mg/kg								<0.050																			
290	Tetrachloroethylene	mg/kg								<0.050																			
1900	Toluene	mg/kg								<0.010																			
40	trans-1,2-Dichloroethylene	mg/kg								<0.050																			
-	trans-1,3-Dichloropropene	mg/kg								<0.050																			
25	Trichloroethylene (TCE)	mg/kg								<0.050																			
-	Trichlorofluoromethane	mg/kg								<0.050																			
0.081	Vinyl Chloride	mg/kg								<0.050																			
-																													
560	1,2,4-Trichlorobenzene	mg/kg								<0.1																			
1370	1,2-Dichlorobenzene	mg/kg								<0.1																			
77	1,3-Dichlorobenzene	mg/kg								<0.1																			
540	1,4-Dichlorobenzene	mg/kg								<0.1																			
4000	2,4,5-Trichlorophenol	mg/kg								<0.1																			
4000	2,4,6-Trichlorophenol	mg/kg								<0.1																			
4000	2,4-Dichlorophenol	mg/kg								<0.1																			
3140	2,4,-Dimethylphenol	mg/kg								<0.1																			
-	2,4,-Dinitrophenol	mg/kg								<0.1																			
299	2,4-Dinitrotoluene	mg/kg								<0.1																			
622	2,6-Dinitrotoluene	mg/kg								<0.1																			
280	2-Chloronaphthalene	mg/kg								<0.1																			
4000	2-Chlorophenol	mg/kg								<0.1																			
-	2-Methylphenol	mg/kg								<0.1																			
-	2-Methyl naphthalene	mg/kg								<0.1																			
-	2-Nitroaniline	mg/kg								<0.1																			
-	2-Nitrophenol	mg/kg								<0.1																			
-	3-Nitroaniline	mg/kg								<0.1																			
-	3/4-Methylphenol	mg/kg								<0.1																			
-	4-Bromophenyl phenyl ether	mg/kg								<0.1																			
4000	4-Chloro, 3-methylphenol	mg/kg								<0.1																			
-	4-Chloroaniline	mg/kg								<0.1																			
-	4-Chlorophenyl phenylether	mg/kg								<0.1																			
-	4-Nitroaniline	mg/kg								<0.1																			
-	4-Nitrophenol	mg/kg								<0.1																			
141	Acenaphthene	mg/kg								<0.1																			
212	Acenaphthylene	mg/kg								<0.1																			
540000	Anthracene	mg/kg								<0.1																			
-	Azobenzene	mg/kg								<0.1																			
95	Benzo(a)anthracene	mg/kg								<0.1																			
14	Benzo(a)pyrene	mg/kg								<0.1																			
100	Benzo(b/k)fluoranthene	mg/kg								<0.1																			
660	Benzo(ghi)perylene	mg/kg								<0.1																			
-	Bis(2-chloroethoxy) methane	mg/kg								<0.1																			
-	Bis(2-chloroethyl)ether	mg/kg								<0.1																			
-	Bis(2-chloroisopropyl) ether	mg/kg								<0.1																			
21.6	Bis(2-ethylhexyl) phthalate	mg/kg								<0.1																			
64.7	Butyl benzyl phthalate	mg/kg								<0.1																			
-	Carbazole	mg/kg								<0.1																			
140	Chrysene	mg/kg								<0.1																			
11.4	Di-n-butyl phthalate	mg/kg								<0.1																			
81.5	Di-n-octyl phthalate	mg/kg								<0.1																			
13	Dibenz(ah)anthracene	mg/kg								<0.1																			
-	Dibenzofuran	mg/kg								<0.1																			
29.1	Diethyl phthalate	mg/kg								<0.1																			
-	Dimethyl phthalate	mg/kg								<0.1																			
23000	Fluoranthene	mg/kg								<0.1																			
69000	Fluorene	mg/kg								<0.1																			
53	Hexachlorobenzene	mg/kg								<0.1																			
69	Hexachlorobutadiene	mg/kg								<0.1																			
-	Hexachlorocyclopentadiene	mg/kg								<0.1																			
20.1	Hexachloroethane	mg/kg								<0.1																			
61	Indeno(1,2,3,cd)pyrene	mg/kg								<0.1																			
-	Isophorone	mg/kg								<0.1																			
183	Naphthalene	mg/kg								<0.1																			
-	Nitrobenzene	mg/kg								<0.1																			
1300	Pentachlorophenol	mg/kg								<0.1																			
22000	Phenanthrene	mg/kg								<0.1																			
1400	Phenol	mg/kg								<0.1																			
54000	Pyrene	mg/kg								<0.1																			

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Strata	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural
Observed Contamination																															
Sample Description	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay
Date	12-Aug-13	07-Aug-13	07-Aug-13	14-Aug-13	15-Aug-13	16-Aug-13	16-Aug-13	20-Aug-13	20-Aug-13	21-Aug-13	21-Aug-13	21-Aug-13	21-Aug-13	21-Aug-13	22-Aug-13	27-Aug-13	27-Aug-13	27-Aug-13	28-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	30-Aug-13						
Sample ID	BH43	BH08	BH08	BH05	BH29	BH10	BH10	WS07	WS06	BH24	BH24	WS07	BH16A	BH16A	WS09	BH25	BH25	BH30	WS12A	WS01	WS02	BH30A	BH30A	BH27	WS03	WS10A	WS24	WS25	WS26		
Depth	7	1.5	4	4.2	4	1.5	7.5	1	1	4.8	8	2.0-2.5	3.5	8	2.0-2.2	4	7	7	4.5-5.0	2.5-3.0	4.5-5.0	10	10.7	5.5	4.8-5.0	3.7-4.0	3.05-3.5	3.15-3.77	3.05-3.5		
Substance																															
Moisture Content @ 105C	29	23	28	29	24	22	33	20	22	28	31	28	25	29	23	29	29	29	31	26	29	24	25	26	27	27	23	24	28		
Moisture Content @ 40C	29	25	28	29	22	22	30	20	21	27	28	28	25	28	24	29	28	29	28	24	28	23	26	26	25	28	23	24	28		
Asbestos	-	N.D.	N.D.	-	-	N.D.	-	N.D.	N.D.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Asbestos Quantification																															
pH	7.6	8.2	7.7	8.1	7.9	7.8	8.4	7.8	8	7.8	8.1	7.6	7.8	8.3	8.8	7.6	8.3	7.9	8.4	7.7	8.5	8.3	8.4	7.9	8.1	7.8	7.9	7.5	7.8		
Fraction Organic Carbon (FOC)	0.0068	0.0074	0.0058	0.74	0.0057	-	0.012	-	-	0.0099	-	0.0081	-	0.0082	0.0082	-	0.01	0.0098	0.0085	0.007	-	0.0091	0.01	0.012	0.0084	0.0072	0.0093	0.0059	-		
Arsenic	10	9	9	9	9	13	10	11	18	8	8	13	11	9	16	9	8	8	16	13	12	9	9	10	10	9	10	9	8		
Boron	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Chromium (total)	21	23	18	19	23	24	20	25	24	15	18	17	17	17	25	24	17	18	30	25	27	17	17	22	18	16	21	18	15		
Chromium (III)	21	23	18	19	23	24	20	25	24	15	18	17	17	17	25	24	17	18	30	25	27	17	17	22	18	16	21	18	15		
Chromium (IV)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Copper	14	12	11	12	13	17	15	17	24	10	11	11	12	12	60	16	10	10	21	15	15	10	10	13	11	10	16	10	9		
Lead	13	13	11	12	14	22	21	24	200	11	12	12	12	12	75	22	11	12	42	19	17	12	11	14	11	11	16	11	11		
Mercury	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Nickel	22	22	18	19	20	28	21	27	28	16	17	19	19	19	27	22	17	18	26	23	27	17	17	22	18	18	22	18	16		
Selenium	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		
Zinc	58	56	45	48	53	73	70	79	86	44	50	56	51	55	88	68	42	50	69	66	69	47	49	57	47	49	59	49	44		
Total cyanide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Free cyanide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
Total sulphate	1.1	0.07	0.87	0.85	0.08	0.05	0.61	0.21	0.07	0.82	0.49	1.1	1	0.71	0.09	0.33	0.48	0.78	0.77	0.14	0.53	0.65	1.1	0.66	0.9	0.9	0.08	0.04	0.66		
Phenol	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.21	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Acenaphthene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Acenaphthylene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Anthracene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Benzo(a)anthracene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Benzo(a)pyrene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Benzo(b)fluoranthene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Benzo(ghi)perylene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Benzo(k)fluoranthene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Chrysene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Dibenzo(ah)anthracene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Fluoranthene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	0.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Fluorene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Indeno(1,2,3cd)pyrene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Naphthalene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Phenanthrene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Pyrene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	0.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Polyaromatic Hydrocarbons (Total)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.6	<0.1	2.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
TPH (C8-C10)	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1			<1	<1	<1	<1				
TPH (C10-C12)	<1		1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1			<1	<1	<1	<1				
TPH (C12-C16)	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1			<1	<1	<1	<1				
TPH (C16-C21)	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	5	<1	<1	1	<1	<1		<1	<1	<1			<1	<1	<1	<1				
TPH (C21-C35)	<1		<1	<1	<1	<1	4	<1	<1	<1	<1	4	<1	<1	6	<1	<1		1	7	1			<1	<1	<1	<1				
TPH (C35-C40)	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	1	<1	<1		<1	3	<1			<1	<1	<1	<1				
TPH (C8 - C40)	<1		1	<1	<1	<1	4	<1	<1	<1	<1	10	<1	<1	8	<1	<1		<1	10	<1			<1	<1	<1	<1				
TPH Aliphatics >C5-C6	<0.100																	<0.100				<0.100	<0.100					<0.100	<0.100		
TPH Aliphatics >C6-C8	<0.10																	<0.10				<0.10	<0.10					0.31	<0.10		
TPH Aliphatics >C8-C10	<0.10																	<0.10				<0.10	<0.10					0.58	<0.10		
TPH Aliphatics >C10-C12	<1																	<1				<1	<1					<1	<1		
TPH Aliphatics >C12-C16	<2																	<2				<2	<2					<2	<2		
TPH Aliphatics >C16-C21	<1																	<1				2	2					1	2		
TPH Aliphatics >C21-C35	<4																	<4				<4	<4					<4	<4		
TPH Aliphatics >C16-C35	<5																	<5				<6	<6					<5	<6		
TPH Aliphatics >C35-C44	<1																	<1				2	1					<1	<1		
TPH Total Aliphatics (C5-C44)	**N.D.**																	**N.D.**				4	3					1.9	2		
TPH Aromatics >C6-C7	<0.10																	<0.10				<0.10	<0.10					<0.10	<0.10		
TPH Aromatics >C7-C8	<0.10																	<0.10				<0.10	<0.10					<0.10	<0.10		
TPH Aromatics >C8-C10	<0.10																	0.12				<0.10	<0.10					0.27	<0.10		
TPH Aromatics >C10-C12	<1																	<1				<1	<1					<1	<1		
TPH Aromatics >C12-C16	<1																	<1				<1	<1					<1	<1		
TPH Aromatics >C16-C21	<1																	<1				1	<1					<1	1		
TPH Aromatics >C21-C35	<1																	<1				4	<1					<1	<1		
TPH Aromatics >C35-C44	<1																	<1				<1	<1					<1	<1		
Total Aromatics (C6-C44)	**N.D.**																	0.12				5	**N.D.**					0.27	1		
Total Aromatics and Aliphatics	**N.D.**																	0.12				9	3					2.2	3		
Benzene	<0.010																	<0.010				<0.010	<0.010					<0.010	<0.010		
Toluene	<0.010																	0.073				<0.010	<0.010					0.037	0.026		
Ethylbenzene	<0.010																	<0.010				<0.010	<0.010					0.017	<0.010		
Methyl tert-Butyl Ether	<0.010																	<0.010				<0.010	<0.010					<0.010	<0.010		
Ortho-Xylene	<0.010																	0.028				<0.010	<0.010					0.038	0.021		
Meta/Para-Xylene	<0.010																	0.053				<0.010	<0.010					0.085	<0.010		
PCB 101	<0.00005																														
PCB 118	<0.00005																														
PCB 138	<0.00005																														
PCB 153	<0.00005																														
PCB 180	<0.00005																														
PCB 28	<0.00005																														
PCB 52	<0.00005																														
Sum of PCBs	<0.00035																														
1,1,1,2-Tetrachloroethane	<0.050																	<0.050				<0.050	<0.050								
1,1,1-Trichloroethane	<0.050																	<0.050				<0.050	<0.050								
1,1,2,2-Tetrachloroethane	<0.050																	<0.050				<0.050	<0.050								
1,1,2-Trichloroethane	<0.050																	<0.050				<0.050	<0.050								
1,1-Dichloroethane	<0.050																	<0.050				<0.050	<0.050								
1,1-Dichloroethylene	<0.050																	<0.050				<0.050	<0.050								
1,1-Dichloro-1-propene	<0.050																	<0.050				<0.050	<0.050								
1,2,3-Trichloropropane	<0.050																	<0.050				<0.050	<0.050								
1,2,4-Trimethylbenzene	<0.050																	<0.050				<0.050	<0.050								
1,2-Dibromoethane	<0.050																	<0.050				<0.050	<0.050								

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Date	12-Aug-13	07-Aug-13	07-Aug-13	14-Aug-13	15-Aug-13	16-Aug-13	16-Aug-13	20-Aug-13	20-Aug-13	21-Aug-13	21-Aug-13	21-Aug-13	21-Aug-13	21-Aug-13	22-Aug-13	27-Aug-13	27-Aug-13	27-Aug-13	28-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	29-Aug-13	30-Aug-13				
Sample ID	BH43	BH08	BH08	BH05	BH29	BH10	BH10	WS07	WS06	BH24	BH24	WS07	BH16A	BH16A	WS09	BH25	BH25	BH30	WS12A	WS01	WS02	BH30A	BH30A	BH27	WS03	WS10A	WS24	WS25	WS26
Depth	7	1.5	4	4.2	4	1.5	7.5	1	1	4.8	8	2.0-2.5	3.5	8	2.0-2.2	4	7	7	4.5-5.0	2.5-3.0	4.5-5.0	10	10.7	5.5	4.8-5.0	3.7-4.0	3.05-3.5	3.15-3.77	3.05-3.5
1,2-Dichlorobenzene		<0.050																<0.050				<0.050	<0.050						
1,2-Dichloroethane		<0.050																<0.050				<0.050	<0.050						
1,2-Dichloropropane		<0.050																<0.050				<0.050	<0.050						
1,3,5-Trimethylbenzene		<0.050																<0.050				<0.050	<0.050						
1,3-Dichlorobenzene		<0.050																<0.050				<0.050	<0.050						
1,3-Dichloropropane		<0.050																<0.050				<0.050	<0.050						
1,4-Dichlorobenzene		<0.050																<0.050				<0.050	<0.050						
2,2-Dichloropropane		<0.050																<0.050				<0.050	<0.050						
2-Chlorotoluene		<0.050																<0.050				<0.050	<0.050						
4-Chlorotoluene		<0.050																<0.050				<0.050	<0.050						
Benzene		<0.010																<0.010				<0.010	<0.010						
Bromobenzene		<0.050																<0.050				<0.050	<0.050						
Bromochloromethane		<0.050																<0.050				<0.050	<0.050						
Bromodichloromethane		<0.050																<0.050				<0.050	<0.050						
Bromoform		<0.050																<0.050				<0.050	<0.050						
Bromomethane		<0.050																<0.050				<0.050	<0.050						
Carbon tetrachloride		<0.050																<0.050				<0.050	<0.050						
Chlorobenzene		<0.050																<0.050				<0.050	<0.050						
Chlorodibromomethane		<0.050																<0.050				<0.050	<0.050						
Chloroethane		<0.050																<0.050				<0.050	<0.050						
Chloroform		<0.050																<0.050				<0.050	<0.050						
Chloromethane		<0.050																<0.050				<0.050	<0.050						
cis-1,2-Dichloroethene		<0.050																<0.050				<0.050	<0.050						
cis-1,3-Dichloropropene		<0.050																<0.050				<0.050	<0.050						
Dibromomethane		<0.050																<0.050				<0.050	<0.050						
Dichlorodifluoromethane		<0.050																<0.050				<0.050	<0.050						
Dichloromethane		<0.050																<0.050				<0.050	<0.050						
Ethylbenzene		<0.010																<0.010				<0.010	<0.010						
Isopropylbenzene		<0.050																<0.050				<0.050	<0.050						
M/p-Xylene		<0.010																0.053				<0.010	<0.010						
n-Propylbenzene		<0.050																<0.050				<0.050	<0.050						
o-Xylene		<0.010																0.028				<0.010	<0.010						
p-Isopropyltoluene		<0.050																<0.050				<0.050	<0.050						
Sec-Butylbenzene		<0.050																<0.050				<0.050	<0.050						
Styrene		<0.050																<0.050				<0.050	<0.050						
Tert-Butylbenzene		<0.050																<0.050				<0.050	<0.050						
Tetrachloroethylene		<0.050																<0.050				<0.050	<0.050						
Toluene		<0.010																0.073				<0.010	<0.010						
trans-1,2-Dichloroethylene		<0.050																<0.050				<0.050	<0.050						
trans-1,3-Dichloropropene		<0.050																<0.050				<0.050	<0.050						
Trichloroethylene (TCE)		<0.050																<0.050				<0.050	<0.050						
Trichlorofluoromethane		<0.050																<0.050				<0.050	<0.050						
Vinyl Chloride		<0.050																<0.050				<0.050	<0.050						
1,2,4-Trichlorobenzene		<0.1																<0.1				<0.1	<0.1						
1,2-Dichlorobenzene		<0.1																<0.1				<0.1	<0.1						
1,3-Dichlorobenzene		<0.1																<0.1				<0.1	<0.1						
1,4-Dichlorobenzene		<0.1																<0.1				<0.1	<0.1						
2,4,5-Trichlorophenol		<0.1																<0.1				<0.1	<0.1						
2,4,6-Trichlorophenol		<0.1																<0.1				<0.1	<0.1						
2,4-Dichlorophenol		<0.1																<0.1				<0.1	<0.1						
2,4,-Dimethylphenol		<0.1																<0.1				<0.1	<0.1						
2,4,-Dinitrophenol		<0.1																<0.1				<0.1	<0.1						
2,4-Dinitrotoluene		<0.1																<0.1				<0.1	<0.1						
2,6-Dinitrotoluene		<0.1																<0.1				<0.1	<0.1						
2-Chloronaphthalene		<0.1																<0.1				<0.1	<0.1						
2-Chlorophenol		<0.1																<0.1				<0.1	<0.1						
2-Methylphenol		<0.1																<0.1				<0.1	<0.1						
2-Methyl naphthalene		<0.1																<0.1				<0.1	<0.1						
2-Nitroaniline		<0.1																<0.1				<0.1	<0.1						
2-Nitrophenol		<0.1																<0.1				<0.1	<0.1						
3-Nitroaniline		<0.1																0.3				0.4							
3/4-Methylphenol		<0.1																<0.1				<0.1	<0.1						
4-Bromophenyl phenyl ether		<0.1																<0.1				<0.1	<0.1						
4-Chloro, 3-methylphenol		<0.1																<0.1				<0.1	<0.1						
4-Chloroaniline		<0.1																<0.1				<0.1	<0.1						
4-Chlorophenyl phenylether		<0.1																<0.1				<0.1	<0.1						
4-Nitroaniline		<0.1																0.3				0.4							
4-Nitrophenol		<0.1																<0.1				<0.1	<0.1						
Acenaphthene		<0.1																<0.1				<0.1	<0.1						
Acenaphthylene		<0.1																<0.1				<0.1	<0.1						
Anthracene		<0.1																<0.1				<0.1	<0.1						
Azobenzene		<0.1																<0.1				<0.1	<0.1						
Benzo(a)anthracene		<0.1																<0.1				<0.1	<0.1						
Benzo(a)pyrene		<0.1																<0.1				<0.1	<0.1						
Benzo(b/k)fluoranthene		<0.1																<0.1				<0.1	<0.1						
Benzo(ghi)perylene		<0.1																<0.1				<0.1	<0.1						
Bis(2-chloroethoxy) methane		<0.1																<0.1				<0.1	<0.1						
Bis(2-chloroethyl)ether		<0.1																<0.1				<0.1	<0.1						
Bis(2-chloroisopropyl) ether		<0.1																<0.1				<0.1	<0.1						
Bis(2-ethylhexyl) phthalate		<0.1																0.2				0.5							
Butyl benzyl phthalate		<0.1																<0.1				<0.1	<0.1						
Carbazole		<0.1																<0.1				<0.1	<0.1						
Chrysene		<0.1																<0.1				<0.1	<0.1						
Di-n-butyl phthalate		<0.1																<0.1				<0.1	<0.1						
Di-n-octyl phthalate		<0.1																<0.1				<0.1	<0.1						
Dibenz(ah)anthracene		<0.1																<0.1				<0.1	<0.1						
Dibenzofuran		<0.1																<0.1				<0.1	<0.1						
Diethyl phthalate		<0.1																<0.1				<0.1	<0.1						
Dimethyl phthalate		<0.1																<0.1				<0.1	<0.1						
Fluoranthene		<0.1																<0.1				<0.1	<0.1						
Fluorene		<0.1																<0.1				<0.1	<0.1						
Hexachlorobenzene		<0.1																<0.1				<0.1	<0.1						
Hexachlorobutadiene		<0.1																<0.1				<0.1	<0.1						
Hexachlorocyclopentadiene		<0.1																<0.1				<0.1	<0.1						
Hexachloroethane		<0.1																<0.1				<0.1	<0.1						
Indeno(1,2,3,cd)pyrene		<0.1																<0.1				<0.1	<0.1						
Isophorone		<0.1																<0.1				<0.1	<0.1						
Naphthalene		<0.1																<0.1				<0.1	<0.1						
Nitrobenzene		<0.1																<0.1				<0.1	<0.1						
Pentachlorophenol		<0.1																<0.1				<0.1	<0.1						
Phenanthrene		<0.1																<0.1				<0.1	<0.1						
Phenol		<0.1																<0.1				<0.1	<0.1						
Pyrene		<0.1																<0.1				<0.1	<0.1						

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Strata	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural	Natural
Observed Contamination																					
Sample Description	Sandy Soil	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Sandy Soil	Clay	Clay	Clay	Clay	Sandy Soil	Sandy Soil	Clay	Clay	Clay	Clay	
Date						4-Sep-13	6-Sep-13	9-Sep-13	9-Sep-13	9-Sep-13	10-Sep-13	10-Sep-13	10-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	6-Sep-13	5-Sep-13	12-Sep-13	11-Sep-13	
Sample ID	BH47	BH47	TP18A	BH23	BH14	WS11	WS20	BH44	BH44	WS05	TP11	TP11	BH41A	BH46	WS13	TP16	WS22	WS21	WS14	WS05	
Depth	12	14	3.6-4	6	2.5	4.2	3.2	2.5	4.5	0.5	2.8	4.15	9	2.5	1.7	1.6-1.8	4.5	3.5	2.0-3.0	3.0-4.0	
Substance																					
Moisture Content @ 105C	22	41	22	29	25	30	30	29	26	16	28	28	40	31	21	29	30	27	25	27	
Moisture Content @ 40C	23	43	22	28	23	29	29	33	26	14	29	30	39	31	20	31	28	27	23	23	
Asbestos	-	-	-	-	-	-	-	-	-	N.D.	-	-	-	-	-	N.D.	-	-	-	-	
Asbestos Quantification																					
pH	7.9	7.9	8.1	8.5	7.5	7.9	8.1	7.7	7.8	8.3	7.8	7.7	8.1	7.7	7.8	7.3	7.7	7.8	7.3	8.4	
Fraction Organic Carbon (FOC)	0.0019	0.062	-	0.011	0.01	0.0079	0.009	-	0.016	-	-	-	-	-	-	-	-	-	0.01	0.0096	
Arsenic	7	7	10	9	9	9	14	16	11	10	10	10	50	12	11	26	10	10	9	10	
Boron	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	
Cadmium	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Chromium (total)	6	16	23	20	21	16	21	28	19	20	26	20	130	27	21	17	18	19	24	21	
Chromium (III)	6	16	23	20	21	16	21	28	19	20	26	20	130	27	21	17	18	19	24	22	
Chromium (IV)	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Copper	4	13	14	12	13	11	18	45	18	19	20	17	110	21	19	170	16	17	12	13	
Lead	5	13	15	14	17	15	14	54	14	47	18	13	210	19	18	250	11	12	15	14	
Mercury	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Nickel	7	29	22	22	22	18	23	29	21	21	26	20	60	27	21	29	19	20	23	23	
Selenium	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Zinc	25	100	62	57	64	54	62	85	53	69	66	52	400	73	60	140	53	57	60	59	
Total cyanide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	
Free cyanide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	
Total sulphate	0.25	4.2	0.14	0.7	0.49	0.85	0.2	2	0.89	0.07	0.68	0.86	0.96	0.84	0.12	0.51	0.84	1.1	0.07	0.88	
Phenol	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Acenaphthene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Acenaphthylene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Anthracene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Benzo(a)anthracene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Benzo(a)pyrene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Benzo(b)fluoranthene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Benzo(ghi)perylene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Benzo(k)fluoranthene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Chrysene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Dibenzo(ah)anthracene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Fluoranthene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Fluorene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Indeno(1,2,3cd)pyrene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Naphthalene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Phenanthrene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Pyrene	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Polyaromatic Hydrocarbons (Total)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
TPH (C8-C10)	<1		<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1		<1	<1	<1	<1	
TPH (C10-C12)	<1		<1	<1	<1	<1	<1	<1	<1	<1		<1	1	1	<1		<1	<1	<1	<1	
TPH (C12-C16)	<1		<1	<1	<1	<1	<1	<1	<1	2		<1	3	2	<1		<1	<1	<1	<1	
TPH (C16-C21)	<1		<1	2	<1	<1	<1	<1	<1	11		<1	12	<1	<1		<1	<1	<1	<1	
TPH (C21-C35)	<1		<1	3	<1	<1	<1	<1	<1	45		<1	36	<1	<1		<1	<1	<1	<1	
TPH (C35-C40)	<1		<1	<1	<1	<1	<1	<1	<1	19		<1	6	<1	<1		<1	<1	<1	<1	
TPH (C8 - C40)	<1		<1	5	<1	<1	<1	<1	<1	77		<1	58	3	<1		<1	<1	<1	<1	
TPH Aliphatics >C5-C6		<0.100								<0.100						<0.100					
TPH Aliphatics >C6-C8		<0.10								<0.10						<0.10					
TPH Aliphatics >C8-C10		<0.10								<0.10						<0.10					
TPH Aliphatics >C10-C12		<1								<1						<1					
TPH Aliphatics >C12-C16		<2								<2						4					
TPH Aliphatics >C16-C21		2								<1						8					
TPH Aliphatics >C21-C35		<4								<4						<4					
TPH Aliphatics >C16-C35		<6								<5						<12					
TPH Aliphatics >C35-C44		<1								<1						<1					
TPH Total Aliphatics (C5-C44)		2								**N.D.**						12					
TPH Aromatics >C6-C7		<0.10								<0.10						<0.10					
TPH Aromatics >C7-C8		<0.10								<0.10						<0.10					
TPH Aromatics >C8-C10		<0.10								<0.10						<0.10					
TPH Aromatics >C10-C12		<1								<1						<1					
TPH Aromatics >C12-C16		<1								<1						<1					
TPH Aromatics >C16-C21		<1								<1						3					
TPH Aromatics >C21-C35		5								<1						8					
TPH Aromatics >C35-C44		<1								<1						5					
Total Aromatics (C6-C44)		5								**N.D.**						16					
Total Aromatics and Aliphatics		7								**N.D.**						28					
Benzene		<0.010								<0.010						<0.010					
Toluene		<0.010								<0.010						<0.010					
Ethylbenzene		<0.010								<0.010						<0.010					
Methyl tert-Butyl Ether		<0.010								<0.010						<0.010					
Ortho-Xylene		<0.010								<0.010						<0.010					
Meta/Para-Xylene		<0.010								<0.010						<0.010					
PCB 101				<0.00005				<0.00005								<0.00005				0.00009	
PCB 118				<0.00005				<0.00005								<0.00005				0.00011	
PCB 138				<0.00005				<0.00005								<0.00005				0.00016	
PCB 153				<0.00005				<0.00005								<0.00005				0.00014	
PCB 180				<0.00005				<0.00005								<0.00005				0.00018	
PCB 28				<0.00005				<0.00005								<0.00005				<0.00005	
PCB 52				<0.00005				<0.00005								<0.00005				<0.00005	
Sum of PCBs				<0.00035				<0.00035								<0.00035				<0.00078	
1,1,1,2-Tetrachloroethane										<0.050						<0.050					
1,1,1-Trichloroethane										<0.050						<0.050					
1,1,2,2-Tetrachloroethane										<0.050						<0.050					
1,1,2-Trichloroethane										<0.050						<0.050					
1,1-Dichloroethane										<0.050						<0.050					
1,1-Dichloroethylene										<0.050						<0.050					
1,1-Dichloro-1-propene										<0.050						<0.050					
1,2,3-Trichloropropane										<0.050						<0.050					
1,2,4-Trimethylbenzene										<0.050						<0.050					
1,2-Dibromoethane										<0.050						<0.050					

Grontmij Limited

Date						4-Sep-13	6-Sep-13	9-Sep-13	9-Sep-13	9-Sep-13	10-Sep-13	10-Sep-13	10-Sep-13	5-Sep-13	5-Sep-13	5-Sep-13	6-Sep-13	5-Sep-13	12-Sep-13	11-Sep-13
Sample ID	BH47	BH47	TP18A	BH23	BH14	WS11	WS20	BH44	BH44	WS05	TP11	TP11	BH41A	BH46	WS13	TP16	WS22	WS21	WS14	WS05
Depth	12	14	3.6-4	6	2.5	4.2	3.2	2.5	4.5	0.5	2.8	4.15	9	2.5	1.7	1.6-1.8	4.5	3.5	2.0-3.0	3.0-4.0
1,2-Dichlorobenzene											<0.050					<0.050				
1,2-Dichloroethane											<0.050					<0.050				
1,2-Dichloropropane											<0.050					<0.050				
1,3,5-Trimethylbenzene											<0.050					<0.050				
1,3-Dichlorobenzene											<0.050					<0.050				
1,3-Dichloropropane											<0.050					<0.050				
1,4-Dichlorobenzene											<0.050					<0.050				
2,2-Dichloropropane											<0.050					<0.050				
2-Chlorotoluene											<0.050					<0.050				
4-Chlorotoluene											<0.050					<0.050				
Benzene											<0.010					<0.010				
Bromobenzene											<0.050					<0.050				
Bromochloromethane											<0.050					<0.050				
Bromodichloromethane											<0.050					<0.050				
Bromoform											<0.050					<0.050				
Bromomethane											<0.050					<0.050				
Carbon tetrachloride											<0.050					<0.050				
Chlorobenzene											<0.050					<0.050				
Chlorodibromomethane											<0.050					<0.050				
Chloroethane											<0.050					<0.050				
Chloroform											<0.050					<0.050				
Chloromethane											<0.050					<0.050				
cis-1,2-Dichloroethene											<0.050					<0.050				
cis-1,3-Dichloropropene											<0.050					<0.050				
Dibromomethane											<0.050					<0.050				
Dichlorodifluoromethane											<0.050					<0.050				
Dichloromethane											<0.050					<0.050				
Ethylbenzene											<0.010					<0.010				
Isopropylbenzene											<0.050					<0.050				
M/p-Xylene											<0.010					<0.010				
n-Propylbenzene											<0.050					<0.050				
o-Xylene											<0.010					<0.010				
p-Isopropyltoluene											<0.050					<0.050				
Sec-Butylbenzene											<0.050					<0.050				
Styrene											<0.050					<0.050				
Tert-Butylbenzene											<0.050					<0.050				
Tetrachloroethylene											<0.050					<0.050				
Toluene											<0.010					<0.010				
trans-1,2-Dichloroethylene											<0.050					<0.050				
trans-1,3-Dichloropropene											<0.050					<0.050				
Trichloroethylene (TCE)											<0.050					<0.050				
Trichlorofluoromethane											<0.050					<0.050				
Vinyl Chloride											<0.050					<0.050				
1,2,4-Trichlorobenzene											<0.1					<0.1				
1,2-Dichlorobenzene											<0.1					<0.1				
1,3-Dichlorobenzene											<0.1					<0.1				
1,4-Dichlorobenzene											<0.1					<0.1				
2,4,5-Trichlorophenol											<0.1					<0.1				
2,4,6-Trichlorophenol											<0.1					<0.1				
2,4-Dichlorophenol											<0.1					<0.1				
2,4,-Dimethylphenol											<0.1					<0.1				
2,4,-Dinitrophenol											<0.1					<0.1				
2,4-Dinitrotoluene											<0.1					<0.1				
2,6-Dinitrotoluene											<0.1					<0.1				
2-Chloronaphthalene											<0.1					<0.1				
2-Chlorophenol											<0.1					<0.1				
2-Methylphenol											<0.1					<0.1				
2-Methyl naphthalene											<0.1					<0.1				
2-Nitroaniline											<0.1					<0.1				
2-Nitrophenol											<0.1					<0.1				
3-Nitroaniline											<0.1					<0.1				
3/4-Methylphenol											<0.1					<0.1				
4-Bromophenyl phenyl ether											<0.1					<0.1				
4-Chloro, 3-methylphenol											<0.1					<0.1				
4-Chloroaniline											<0.1					<0.1				
4-Chlorophenyl phenylether											<0.1					<0.1				
4-Nitroaniline											<0.1					<0.1				
4-Nitrophenol											<0.1					<0.1				
Acenaphthene											<0.1					<0.1				
Acenaphthylene											<0.1					<0.1				
Anthracene											<0.1					<0.1				
Azobenzene											<0.1					<0.1				
Benzo(a)anthracene											<0.1					<0.1				
Benzo(a)pyrene											<0.1					<0.1				
Benzo(b/k)fluoranthene											<0.1					<0.1				
Benzo(ghi)perylene											<0.1					<0.1				
Bis(2-chloroethoxy) methane											<0.1					<0.1				
Bis(2-chloroethyl)ether											<0.1					<0.1				
Bis(2-chloroisopropyl) ether											<0.1					<0.1				
Bis(2-ethylhexyl) phthalate											<0.1					<0.1				
Butyl benzyl phthalate											<0.1					<0.1				
Carbazole											<0.1					<0.1				
Chrysene											<0.1					<0.1				
Di-n-butyl phthalate											<0.1					<0.1				
Di-n-octyl phthalate											<0.1					<0.1				
Dibenz(ah)anthracene											<0.1					<0.1				
Dibenzofuran											<0.1					<0.1				
Diethyl phthalate											<0.1					<0.1				
Dimethyl phthalate											<0.1					<0.1				
Fluoranthene											<0.1					<0.1				
Fluorene											<0.1					<0.1				
Hexachlorobenzene											<0.1					<0.1				
Hexachlorobutadiene											<0.1					<0.1				
Hexachlorocyclopentadiene											<0.1					<0.1				
Hexachloroethane											<0.1					<0.1				
Indeno(1,2,3,cd)pyrene											<0.1					<0.1				
Isophorone											<0.1					<0.1				
Naphthalene											<0.1					<0.1				
Nitrobenzene											<0.1					<0.1				
Pentachlorophenol											<0.1					<0.1				
Phenanthrene											<0.1					<0.1				
Phenol											<0.1					<0.1				
Pyrene											<0.1					<0.1				

Substance		Screening Criteria		Number of Analyses	Reported Minimum Value	Reported Maximum Value	Statistical Mean	Standard Deviation	Number of Exceedances
Moisture Content @ 105C		-	-	75	12	53	27.3	5.45	-
Moisture Content @ 40C		-	-	75	11	54	26.9	5.62	-
		-	-						-
Asbestos		-	-						-
Asbestos Quantification	%	0.001	IOM 1988						
pH		-	-	75	7.3	8.8	7.98	0.32	-
Fraction Organic Carbon (FOC)	Unitless	-	-	42	0.0019	0.74	0.031	0.11	-
		-	-						-
Arsenic	mg/kg	640	Commercial SGV/GAC2.5% SOM	75	3	50	11.2	5.66	0
Boron	mg/kg	192000	Commercial SGV/GAC2.5% SOM	75	<1	18	1.45	2.18	0
Cadmium	mg/kg	230	Commercial SGV/GAC2.5% SOM	75	<1	<1	1	0	0
Chromium (total)	mg/kg	-	-	75	6	130	22	13.5	-
Chromium (III)	mg/kg	8840	Commercial SGV/GAC2.5% SOM	75	6	130	22	13.5	0
Chromium (IV)	mg/kg	35	Commercial SGV/GAC2.5% SOM	75	<1	<1	1	0	0
Copper	mg/kg	71700	Commercial SGV/GAC2.5% SOM	75	4	170	18.4	22.3	0
Lead	mg/kg	750	Withdrawn SGV	75	5	250	26	42.1	0
Mercury	mg/kg	11	Commercial SGV/GAC2.5% SOM	75	<1	<1	1	0	0
Nickel	mg/kg	1800	Commercial SGV/GAC2.5% SOM	75	5	60	21.8	6.5	0
Selenium	mg/kg	13000	Commercial SGV/GAC2.5% SOM	75	<3	<3	3	0	0
Zinc	mg/kg	665000	Commercial SGV/GAC2.5% SOM	75	25	400	64.2	42.6	0
		-	-						-
Total cyanide	mg/kg	20	Dutch Intervention Value	75	<1	2	1.01	0.12	0
Free cyanide	mg/kg	20	Dutch Intervention Value	75	<1	<1	1	0	0
Total sulphate	mg/kg	-	-	75	0.04	16	0.88	1.86	-
Phenol	mg/kg	1400	Commercial SGV/GAC2.5% SOM	75	<0.01	0.21	0.013	0.023	0
		-	-						-
Acenaphthene	mg/kg	141	Commercial SGV/GAC2.5% SOM	75	<0.1	<0.1	0.1	1.54E-16	0
Acenaphthylene	mg/kg	212	Commercial SGV/GAC2.5% SOM	75	<0.1	<0.1	0.1	1.54E-16	0
Anthracene	mg/kg	540000	Commercial SGV/GAC2.5% SOM	75	<0.1	0.2	0.1	0.02	0
Benzo(a)anthracene	mg/kg	95	Commercial SGV/GAC2.5% SOM	75	<0.1	0.5	0.11	0.053	0
Benzo(a)pyrene	mg/kg	14	Commercial SGV/GAC2.5% SOM	75	<0.1	0.7	0.11	0.074	0
Benzo(b)fluoranthene	mg/kg	100	Commercial SGV/GAC2.5% SOM	75	<0.1	0.5	0.11	0.06	0
Benzo(ghi)perylene	mg/kg	660	Commercial SGV/GAC2.5% SOM	75	<0.1	0.2	0.1	0.016	0
Benzo(k)fluoranthene	mg/kg	140	Commercial SGV/GAC2.5% SOM	75	<0.1	1	0.12	0.11	0
Chrysene	mg/kg	140	Commercial SGV/GAC2.5% SOM	75	<0.1	0.4	0.11	0.049	0
Dibenzo(ah)anthracene	mg/kg	13	Commercial SGV/GAC2.5% SOM	75	<0.1	<0.1	0.1	1.54E-16	0
Fluoranthene	mg/kg	23000	Commercial SGV/GAC2.5% SOM	75	<0.1	1.1	0.15	0.19	0
Fluorene	mg/kg	69000	Commercial SGV/GAC2.5% SOM	75	<0.1	<0.1	0.1	1.54E-16	0
Indeno(1,2,3cd)pyrene	mg/kg	61	Commercial SGV/GAC2.5% SOM	75	<0.1	0.3	0.1	0.026	0
Naphthalene	mg/kg	183	Commercial SGV/GAC2.5% SOM	75	<0.1	0.4	0.1	0.035	0
Phenanthrene	mg/kg	22000	Commercial SGV/GAC2.5% SOM	75	<0.1	0.7	0.13	0.11	0
Pyrene	mg/kg	54000	Commercial SGV/GAC2.5% SOM	75	<0.1	0.9	0.14	0.15	0
Polyaromatic Hydrocarbons (Total)	mg/kg	-	-	75	<0.1	5.1	0.35	0.94	-
		-	-						-
TPH (C8-C10)	mg/kg	190	Commercial SGV/GAC2.5% SOM	63	<1	<1	1	0	0
TPH (C10-C12)	mg/kg	118	Commercial SGV/GAC2.5% SOM	63	<1	1	1	0	0
TPH (C12-C16)	mg/kg	59	Commercial SGV/GAC2.5% SOM	63	<1	3	1.08	0.33	0
TPH (C16-C21)	mg/kg	28000	Commercial SGV/GAC2.5% SOM	63	<1	12	1.54	2.05	0
TPH (C21-C35)	mg/kg	28000	Commercial SGV/GAC2.5% SOM	63	<1	45	3.4	8.05	0
TPH (C35-C40)	mg/kg	28000	Commercial SGV/GAC2.5% SOM	63	<1	19	1.48	2.38	0
TPH (C8 - C40)	mg/kg	-	-	63	<1	77	4.78	12.7	-
		-	-						-
TPH Aliphatics >C5-C6	mg/kg	558	Commercial SGV/GAC2.5% SOM	12	<0.1	<0.1	0.1	1.45E-17	0
TPH Aliphatics >C6-C8	mg/kg	322	Commercial SGV/GAC2.5% SOM	12	<0.1	0.31	0.12	0.061	0
TPH Aliphatics >C8-C10	mg/kg	190	Commercial SGV/GAC2.5% SOM	12	<0.1	0.58	0.14	0.14	0
TPH Aliphatics >C10-C12	mg/kg	118	Commercial SGV/GAC2.5% SOM	12	<1	<1	1	0	0
TPH Aliphatics >C12-C16	mg/kg	59	Commercial SGV/GAC2.5% SOM	12	<2	4	2.17	0.58	0
TPH Aliphatics >C16-C21	mg/kg	-	-	12	<1	8	1.92	1.98	-
TPH Aliphatics >C21-C35	mg/kg	-	-	12	<4	8	4.33	1.15	-
TPH Aliphatics >C16-C35	mg/kg	1800000	Commercial SGV/GAC2.5% SOM	12	<5	<12	6.25	2.14	0
TPH Aliphatics >C35-C44	mg/kg	1800000	Commercial SGV/GAC2.5% SOM	12	<1	6	1.5	1.45	0
TPH Total Aliphatics (C5-C44)	mg/kg	-	-	7	1.9	14	5.56	5.17	-
		-	-						-
TPH Aromatics >C6-C7	mg/kg	2260	Commercial SGV/GAC2.5% SOM	12	<0.1	<0.1	0.1	1.45E-17	0
TPH Aromatics >C7-C8	mg/kg	1920	Commercial SGV/GAC2.5% SOM	12	<0.1	<0.1	0.1	1.45E-17	0
TPH Aromatics >C8-C10	mg/kg	1500	Commercial SGV/GAC2.5% SOM	12	<0.1	0.27	0.12	0.049	0
TPH Aromatics >C10-C12	mg/kg	899	Commercial SGV/GAC2.5% SOM	12	<1	<1	1	0	0
TPH Aromatics >C12-C16	mg/kg	37000	Commercial SGV/GAC2.5% SOM	12	<1	<1	1	0	0
TPH Aromatics >C16-C21	mg/kg	28000	Commercial SGV/GAC2.5% SOM	12	<1	3	1.17	0.58	0
TPH Aromatics >C21-C35	mg/kg	28000	Commercial SGV/GAC2.5% SOM	12	<1	8	2.33	2.27	0
TPH Aromatics >C35-C44	mg/kg	28000	Commercial SGV/GAC2.5% SOM	12	<1	5	1.33	1.15	0
Total Aromatics (C6-C44)	mg/kg	-	-	8	0.12	16	4.17	5.26	-
Total Aromatics and Aliphatics	mg/kg	-	-	9	0.12	28	8.04	9.47	-
		-	-						-
Benzene	mg/kg	50	Commercial SGV/GAC2.5% SOM	12	<0.01	<0.01	0.01	1.81E-18	0
Toluene	mg/kg	1900	Commercial SGV/GAC2.5% SOM	12	<0.01	0.073	0.019	0.019	0
Ethylbenzene	mg/kg	1200	Commercial SGV/GAC2.5% SOM	12	<0.01	0.017	0.011	0.002	0
Methyl tert-Butyl Ether	mg/kg	13000	Commercial SGV/GAC2.5% SOM	12	<0.01	<0.01	0.01	1.81E-18	0
Ortho-Xylene	mg/kg	1100	Commercial SGV/GAC2.5% SOM	12	<0.01	0.038	0.015	0.0093	0
Meta/Para-Xylene	mg/kg	1400	Commercial SGV/GAC2.5% SOM	12	<0.01	0.085	0.02	0.024	0
		-	-						-
PCB 101	mg/kg	-	-	5	<0.00005	0.00009	0.000058	0.000018	-
PCB 118	mg/kg	-	-	5	<0.00005	0.00011	0.000062	0.000027	-
PCB 138	mg/kg	-	-	5	<0.00005	0.00016	0.000072	0.000049	-
PCB 153	mg/kg	-	-	5	<0.00005	0.00014	0.000068	0.00004	-
PCB 180	mg/kg	-	-	5	<0.00005	0.00018	0.000076	0.000058	-
PCB 28	mg/kg	-	-	5	<0.00005	<0.00005	0.00005	0	-
PCB 52	mg/kg	-	-	5	<0.00005	<0.00005	0.00005	0	-
Sum of PCBs	mg/kg	1	Dutch Intervention Value	5	<0.00035	<0.00078	0.00044	0.00019	0
		-	-						-
1,1,1,2-Tetrachloroethane	mg/kg	260	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
1,1,1-Trichloroethane	mg/kg	1400	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
1,1,2,2-Tetrachloroethane	mg/kg	580	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
1,1,2-Trichloroethane	mg/kg	190	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
1,1-Dichloroethane	mg/kg	450	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
1,1-Dichloroethylene	mg/kg	46	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
1,1-Dichloro-1-propene	mg/kg	-	-	7	<0.05	<0.05	0.05	7.49E-18	-
1,2,3-Trichloropropane	mg/kg	-	-	7	<0.05	<0.05	0.05	7.49E-18	-
1,2,4-Trimethylbenzene	mg/kg	99	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
1,2-Dibromoethane	mg/kg	-	-	7	<0.05	<0.05	0.05	7.49E-18	-
1,2-Dichlorobenzene	mg/kg	1370	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
1,2-Dichloroethane	mg/kg	1	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
1,2-Dichloropropane	mg/kg	5.9	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
1,3,5-Trimethylbenzene	mg/kg	-	-	7	<0.05	<0.05	0.05	7.49E-18	-
1,3-Dichlorobenzene	mg/kg	77	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
1,3-Dichloropropane	mg/kg	-	-	7	<0.05	<0.05	0.05	7.49E-18	-

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Substance		Screening Criteria		Number of Analyses	Reported Minimum Value	Reported Maximum Value	Statistical Mean	Standard Deviation	Number of Exceedances
1,4-Dichlorobenzene	mg/kg	540	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
2,2-Dichloropropane	mg/kg	-	-	7	<0.05	<0.05	0.05	7.49E-18	-
2-Chlorotoluene	mg/kg	-	-	7	<0.05	<0.05	0.05	7.49E-18	-
4-Chlorotoluene	mg/kg	-	-	7	<0.05	<0.05	0.05	7.49E-18	-
Benzene	mg/kg	50	Commercial SGV/GAC2.5% SOM	7	<0.01	<0.01	0.01	0	0
Bromobenzene	mg/kg	220	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
Bromochloromethane	mg/kg	-	-	7	<0.05	<0.05	0.05	7.49E-18	-
Bromodichloromethane	mg/kg	3.7	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
Bromoform	mg/kg	1500	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
Bromomethane	mg/kg	-	-	7	<0.05	<0.05	0.05	7.49E-18	-
Carbon tetrachloride	mg/kg	6.6	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
Chlorobenzene	mg/kg	130	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
Chlorodibromomethane	mg/kg	-	-	7	<0.05	<0.05	0.05	7.49E-18	-
Chloroethane	mg/kg	1300	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
Chloroform	mg/kg	190	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
Chloromethane	mg/kg	1.2	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
cis-1,2-Dichloroethene	mg/kg	24	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
cis-1,3-Dichloropropene	mg/kg	-	-	7	<0.05	<0.05	0.05	7.49E-18	-
Dibromomethane	mg/kg	-	-	7	<0.05	<0.05	0.05	7.49E-18	-
Dichlorodifluoromethane	mg/kg	-	-	7	<0.05	<0.05	0.05	7.49E-18	-
Dichloromethane	mg/kg	360	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
Ethylbenzene	mg/kg	1200	Commercial SGV/GAC2.5% SOM	7	<0.01	<0.01	0.01	0	0
Isopropylbenzene	mg/kg	950	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
M/p-Xylene	mg/kg	1400	Commercial SGV/GAC2.5% SOM	7	<0.01	0.053	0.016	0.016	0
n-Propylbenzene	mg/kg	981	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
o-Xylene	mg/kg	1100	Commercial SGV/GAC2.5% SOM	7	<0.01	0.028	0.013	0.0068	0
p-Isopropyltoluene	mg/kg	-	-	7	<0.05	<0.05	0.05	7.49E-18	-
Sec-Butylbenzene	mg/kg	-	-	7	<0.05	<0.05	0.05	7.49E-18	-
Styrene	mg/kg	1440	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
Tert-Butylbenzene	mg/kg	-	-	7	<0.05	<0.05	0.05	7.49E-18	-
Tetrachloroethylene	mg/kg	290	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
Toluene	mg/kg	1900	Commercial SGV/GAC2.5% SOM	7	<0.01	0.073	0.019	0.024	0
trans-1,2-Dichloroethylene	mg/kg	40	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
trans-1,3-Dichloropropene	mg/kg	-	-	7	<0.05	<0.05	0.05	7.49E-18	-
Trichloroethylene (TCE)	mg/kg	25	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
Trichlorofluoromethane	mg/kg	-	-	7	<0.05	<0.05	0.05	7.49E-18	-
Vinyl Chloride	mg/kg	0.081	Commercial SGV/GAC2.5% SOM	7	<0.05	<0.05	0.05	7.49E-18	0
		-	-						-
1,2,4-Trichlorobenzene	mg/kg	560	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
1,2-Dichlorobenzene	mg/kg	1370	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
1,3-Dichlorobenzene	mg/kg	77	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
1,4-Dichlorobenzene	mg/kg	540	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
2,4,5-Trichlorophenol	mg/kg	4000	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
2,4,6-Trichlorophenol	mg/kg	4000	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
2,4-Dichlorophenol	mg/kg	4000	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
2,4,-Dimethylphenol	mg/kg	3140	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
2,4,-Dinitrophenol	mg/kg	-	-	7	<0.1	<0.1	0.1	1.50E-17	-
2,4-Dinitrotoluene	mg/kg	299	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
2,6-Dinitrotoluene	mg/kg	622	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
2-Chloronaphthalene	mg/kg	280	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
2-Chlorophenol	mg/kg	4000	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
2-Methylphenol	mg/kg	-	-	7	<0.1	<0.1	0.1	1.50E-17	-
2-Methyl naphthalene	mg/kg	-	-	7	<0.1	<0.1	0.1	1.50E-17	-
2-Nitroaniline	mg/kg	-	-	7	<0.1	<0.1	0.1	1.50E-17	-
2-Nitrophenol	mg/kg	-	-	7	<0.1	<0.1	0.1	1.50E-17	-
3-Nitroaniline	mg/kg	-	-	7	<0.1	0.4	0.17	0.13	-
3/4-Methylphenol	mg/kg	-	-	7	<0.1	<0.1	0.1	1.50E-17	-
4-Bromophenyl phenyl ether	mg/kg	-	-	7	<0.1	<0.1	0.1	1.50E-17	-
4-Chloro, 3-methylphenol	mg/kg	4000	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
4-Chloroaniline	mg/kg	-	-	7	<0.1	<0.1	0.1	1.50E-17	-
4-Chlorophenyl phenylether	mg/kg	-	-	7	<0.1	<0.1	0.1	1.50E-17	-
4-Nitroaniline	mg/kg	-	-	7	<0.1	0.4	0.17	0.13	-
4-Nitrophenol	mg/kg	-	-	7	<0.1	<0.1	0.1	1.50E-17	-
Acenaphthene	mg/kg	141	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Acenaphthylene	mg/kg	212	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Anthracene	mg/kg	540000	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Azobenzene	mg/kg	-	-	7	<0.1	<0.1	0.1	1.50E-17	-
Benzo(a)anthracene	mg/kg	95	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Benzo(a)pyrene	mg/kg	14	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Benzo(b/k)fluoranthene	mg/kg	100	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Benzo(ghi)perylene	mg/kg	660	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Bis(2-chloroethoxy) methane	mg/kg	-	-	7	<0.1	<0.1	0.1	1.50E-17	-
Bis(2-chloroethyl)ether	mg/kg	-	-	7	<0.1	<0.1	0.1	1.50E-17	-
Bis(2-chloroisopropyl) ether	mg/kg	-	-	7	<0.1	<0.1	0.1	1.50E-17	-
Bis(2-ethylhexyl) phthalate	mg/kg	21.6	Commercial SGV/GAC2.5% SOM	7	<0.1	0.5	0.17	0.15	0
Butyl benzyl phthalate	mg/kg	64.7	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Carbazole	mg/kg	-	-	7	<0.1	<0.1	0.1	1.50E-17	-
Chrysene	mg/kg	140	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Di-n-butyl phthalate	mg/kg	11.4	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Di-n-octyl phthalate	mg/kg	81.5	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Dibenz(ah)anthracene	mg/kg	13	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Dibenzofuran	mg/kg	-	-	7	<0.1	<0.1	0.1	1.50E-17	-
Diethyl phthalate	mg/kg	29.1	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Dimethyl phthalate	mg/kg	-	-	7	<0.1	<0.1	0.1	1.50E-17	-
Fluoranthene	mg/kg	23000	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Fluorene	mg/kg	69000	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Hexachlorobenzene	mg/kg	53	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Hexachlorobutadiene	mg/kg	69	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Hexachlorocyclopentadiene	mg/kg	-	-	7	<0.1	<0.1	0.1	1.50E-17	-
Hexachloroethane	mg/kg	20.1	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Indeno(1,2,3,cd)pyrene	mg/kg	61	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Isophorone	mg/kg	-	-	7	<0.1	<0.1	0.1	1.50E-17	-
Naphthalene	mg/kg	183	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Nitrobenzene	mg/kg	-	-	7	<0.1	<0.1	0.1	1.50E-17	-
Pentachlorophenol	mg/kg	1300	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Phenanthrene	mg/kg	22000	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Phenol	mg/kg	1400	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
Pyrene	mg/kg	54000	Commercial SGV/GAC2.5% SOM	7	<0.1	<0.1	0.1	1.50E-17	0
									-

Appendix H2a: Leachability results (controlled waters – DWS)

Grontmij Limited

Multiplier:			1 x"<"	Highways Agency | A63 - Castle Street LEACHATE DWS (112630)													
	Strata			Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground
	Observed Contamination																	
	Sample Description			Sandy Soil	Sandy Soil	Sandy Soil	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Sandy Soil	Clay	Clay	Sandy Soil
	Date	-		17-Jul-13	17-Jul-13	17-Jul-13	24-Jul-13	24-Jul-13	30-Jul-13	30-Jul-13	02-Aug-13	02-Aug-13	02-Aug-13	02-Aug-13	06-Aug-13	06-Aug-13	06-Aug-13	06-Aug-13
	Sample ID	-		**BH19A**	**BH39**	**SCPT20**	**BH37**	**BH22**	**BH40A**	**BH03**	**BH07**	**BH03**	**BH38**	**BH38**	**SCPT24**	**BH09**	**BH45**	**BH45**
	Depth	m		**1.05**	**0.5**	**0.5**	**4**	**0.5**	**6.7**	**0.7**	**0.5**	**1.5**	**2**	**8.5**	**0.5**	**1.6**	**2.5**	**0.3**
Screening Level	**Substance**	**Units**																
-																		
-	pH			9.4	9.1	8.8	8.2	7.9	7.9	8.1	8.3	8	8.1	7.9	7.6	8.1	8.2	7.8
-																		
10	Arsenic	ug/l		4.6	3.5	**25**	**56**	3.7	2.1	0.6	**12**	1.2	2.6	7.8	7	1.6	3.6	**11**
1000	Boron	ug/l		150	83	200	**1100**	25	270	40	13	28	180	310	11	22	68	49
5	Cadmium	ug/l		<0.02	<0.02	<0.02	0.07	<0.02	0.03	<0.02	<0.02	0.03	0.07	0.04	<0.02	0.04	0.03	<0.02
50	Chromium (total)	ug/l		2	<1	<1	<1	2	1	<1	2	3	3	5	4	1	<1	1
-	Chromium (III)	ug/l		<3	<3	<3	<3	<3	<3	<3	<3	3	3	5	4	<3	<3	<3
-	Chromium (VI)	ug/l		<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
2000	Copper	ug/l		30	1.2	17	1	16	3.6	2.7	5.8	1.8	1	2.6	13	2	4.8	2.9
10	Lead	ug/l		<0.3	<0.3	7	0.5	2.2	<0.3	0.4	0.6	<0.3	<0.3	0.9	1.7	0.9	<0.3	0.8
1	Mercury	ug/l		<0.05	<0.05	0.09	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
20	Nickel	ug/l		3	<1	3	2	<1	1	<1	1	<1	2	2	2	<1	1	<1
10	Selenium	ug/l		0.6	<0.5	1	0.8	0.7	1.2	<0.5	0.8	1.5	1.2	2.5	1.2	<0.5	0.7	<0.5
5000	Zinc	ug/l		<2	4	5	<2	<2	<2	<2	4	2	<2	3	5	3	2	<2
-																		
250	Sulphate	mg/l		24	1.2	69	65	6.7	78	7.4	0.7	9.8	39	19	9.7	6	24	23
-	Sulphide	mg/l		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
-	Sulphur (total	mg/l		9.4	0.41	24	22	2.1	26	1.8	0.65	3.6	13	6.1	4	1.7	6.8	8.5
-																		
0.5	Phenols (total)	ug/l		**<5.0**	**<5.0**	**<5.0**	<0.5	<0.5	<0.5	**0.8**	<0.5	<0.5	**<0.6**	**2.2**	<0.5	**<0.9**	**<0.9**	**<0.9**
50	Cyanide (total)	ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
50	Cyanide (free)	ug/l		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
-																		
-	Acenaphthene	ug/l		<0.02	<0.02	0.34	<0.01	0.02	0.05	0.05	0.02	0.03	0.02	0.07	0.04	<0.02	0.03	<0.02
-	Acenaphthylene	ug/l		<0.02	<0.02	0.07	<0.01	<0.01	<0.02	0.02	0.08	0.2	0.01	0.07	0.07	<0.02	<0.02	0.11
-	Anthracene	ug/l		<0.02	<0.02	0.11	<0.01	0.02	0.05	<0.02	0.02	<0.01	<0.02	0.05	0.68	<0.02	<0.02	0.14
-	Benzo(a)anthracene	ug/l		<0.02	<0.02	0.17	0.04	0.09	0.03	<0.02	<0.01	<0.01	<0.02	0.06	1.6	0.09	0.15	1.3
0.01	Benzo(a)pyrene	ug/l		**<0.02**	**<0.02**	**0.19**	**0.06**	**0.12**	**0.05**	**0.02**	<0.01	<0.01	**<0.02**	**0.07**	**2.5**	**0.13**	**0.18**	**1.2**
-	Benzo(b)fluoranthene	ug/l		<0.02	<0.02	0.24	0.06	0.15	0.07	0.02	0.01	<0.01	<0.02	0.06	2.2	0.15	0.19	1.4
-	Benzo(ghi)perylene	ug/l		<0.02	<0.02	0.22	0.05	0.15	0.05	0.02	0.01	<0.01	<0.02	0.04	1.6	0.11	0.15	0.81
-	Benzo(k)fluoranthene	ug/l		<0.02	<0.02	1.2	0.03	0.11	0.03	<0.02	<0.01	<0.01	<0.02	0.05	1.9	0.1	0.15	0.8
-	Chrysene	ug/l		<0.02	<0.02	0.15	0.06	0.1	0.05	<0.02	<0.01	<0.01	<0.02	0.05	1.3	0.11	0.16	1.3
-	Dibenzo(ah)anthracene	ug/l		<0.02	<0.02	0.09	0.03	0.11	0.02	<0.02	0.01	<0.01	<0.02	0.04	0.41	<0.10	<0.10	0.24
-	Fluoranthene	ug/l		<0.02	<0.02	0.26	0.03	0.06	0.08	<0.02	0.02	<0.01	<0.02	0.06	8	<0.02	0.06	2.4
-	Fluorene	ug/l		<0.02	<0.02	0.06	<0.01	0.02	0.08	0.03	0.05	0.06	0.02	0.1	0.04	<0.02	0.02	<0.02
-	Indeno(1,2,3cd)pyrene	ug/l		<0.02	<0.02	0.19	0.05	0.13	0.02	<0.02	<0.01	<0.01	<0.02	0.02	1.6	0.1	0.15	1.1
-	Naphthalene	ug/l		0.38	0.31	0.31	<0.01	0.06	0.1	0.11	0.04	0.03	0.05	0.13	0.06	0.08	0.28	<0.02
-	Phenanthrene	ug/l		<0.02	<0.02	0.09	0.03	0.04	0.21	0.05	0.05	0.01	0.02	0.15	1.2	<0.02	0.06	0.29
-	Pyrene	ug/l		<0.02	<0.02	0.22	0.02	0.06	0.08	0.02	0.01	<0.01	<0.02	0.08	7.4	<0.02	0.04	2.3
-	romatic Hydrocarbons (Total)	ug/l		0.38	0.31	2.5	0.55	1.5	0.9	0.32	0.32	0.33	0.12	1.1	31	0.87	1.6	13
0.1	Sum of 4No. PAHs	ug/l		<0.02	<0.02	**0.77**	**0.19**	**0.54**	**0.17**	0.04	0.02	**N.D.**	<0.02	**0.17**	**7.3**	**0.46**	**0.64**	**4.1**
-	(b) and benzo(k)fluoranthene	ug/l		<0.02	<0.02	1.4	0.09	0.26	0.1	0.02	0.01	<0.01	<0.02	0.11	4.1	0.25	0.34	2.2
-	rene and benzo(ghi)perylene	ug/l		<0.02	<0.02	0.41	0.1	0.28	0.07	0.02	0.01	**N.D.**	<0.02	0.06	3.2	0.21	0.3	1.9
-		ug/l																
10	TPH (C8-C10)	ug/l		<10	<10	<10	**<30**	**<20**	**<20**	**<30**	**<50**	**<40**	**<20**	**<40**	**<30**	<0.01	<0.01	<0.01
10	TPH (C10-C12)	ug/l		<10	<10	<10	**<30**	**<20**	**<20**	**<30**	**<50**	**<40**	**<20**	**<40**	**<30**	<0.01	<0.01	<0.01
10	TPH (C12-C16)	ug/l		<10	<10	**42**	**<30**	**<20**	**<20**	**<30**	**<50**	**<40**	**<20**	**<40**	**<30**	<0.01	<0.01	<0.01
10	TPH (C16-C21)	ug/l		<10	<10	**170**	**<30**	**<20**	**<20**	**<30**	**<50**	**<40**	**<20**	**<40**	**86**	<0.01	<0.01	0.03
10	TPH (C21-C35)	ug/l		<10	<10	**630**	**<30**	**<20**	**<20**	**<30**	**<50**	**<40**	**<20**	**<40**	**79**	<0.01	<0.01	0.07
10	TPH (C35-C40)	ug/l		<10	<10	**160**	**<30**	**<20**	**<20**	**<30**	**<50**	**<40**	**<20**	**<40**	**<30**	<0.01	<0.01	0.01
10	Total TPH (C8-C40)	ug/l		<10	<10	**1000**	**<30**	**<20**	**<20**	**<30**	**<50**	**<40**	**<20**	**<40**	**170**	<0.01	<0.01	0.11

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1																
Strata	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground
Observed Contamination																
Sample Description	Clay	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Clay	Clay	Sandy Soil	Clay	Clay
Date	09-Aug-13	14-Aug-13	16-Aug-13	20-Aug-13	20-Aug-13	19/08/2013	21-Aug-13	21-Aug-13	28-Aug-13	29-Aug-13	03-Sep-13	03-Sep-13	03-Sep-13	03-Sep-13	10-Sep-13	30-Jul-13
Sample ID	**BH17**	**BH29**	**WS24**	**WS11**	**WS06**	**SCPT13**	**WS12A**	**BH16A**	**TP05**	**SCPT18**	**WS25**	**WS26**	**WS26**	**TP18**	**TP11**	**SCPT01**
Depth	**2.25**	**1.5**	**0.2**	**0.5**	**0.5**	**0.5**	**0.4-0.6**	**1.5**	**0.5-0.6**	**0.6-1.0**	**1.83-2.0**	**1.2-1.5**	**2.0-2.5**	**0.25-0.4**	**1.6**	**1**
Substance																
pH	8.7	8.1	8.4	8.1	7.9	7.9	8	8.1	8.1	7.8	8.5	8.1	8.2	8.4	8.2	8
Arsenic	0.5	0.4	8.3	3.6	9.6	2.4	**11**	**19**	0.8	8.2	**13**	3.2	6.1	**19**	2.3	0.6
Boron	28	22	280	89	39	34	990	55	<10	<10	440	110	150	25	81	70
Cadmium	<0.02	<0.02	0.02	0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	0.02	<0.02	<0.02	0.07	<0.02
Chromium (total)	<1	<1	2	1	2	2	<1	<1	3	6	3	6	3	16	4	<1
Chromium (III)	<3	<3	<3	<3	<3	<3	<3	<3	3	6	3	6	3	16	4	<3
Chromium (VI)	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	7	<3	<3	10	<3	<3
Copper	1.2	2	8.1	2.8	8.1	4.1	3.7	1.1	3.3	7.5	0.8	4.5	1.3	9.1	1	2.6
Lead	<0.3	<0.3	0.5	<0.3	4	1	0.3	<0.3	<0.3	3.5	0.4	<0.3	<0.3	0.7	<0.3	<0.3
Mercury	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05	<0.05	<0.05	0.17	0.17	0.16	0.17	<0.05	<0.05
Nickel	<1	<1	1	<1	1	<1	<1	<1	<1	3	<1	1	<1	<1	2	<1
Selenium	0.8	1.2	1.3	1.2	0.9	0.9	0.8	0.7	0.7	2.3	1.1	1.1	0.9	1.2	0.6	1.1
Zinc	2	<2	5	5	7	5	<2	<2	3	8	2	4	2	4	<2	<2
Sulphate	12	24	3.4	7.9	2.5	7.7	12	7.2	1	24	70	14	<0.5	<0.5	7.7	65
Sulphide	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total	4.2	26	2	2.5	1.6	1.9	3.6	2.2	<0.01	<0.01	24	4.7	1.6	0.71	<0.01	22
Phenols (total)	**<0.9**	**<0.7**	<0.5	<0.5	<0.5	<0.5	**0.9**	<0.5	<0.5	<0.5	<0.5	**0.9**	**12**	<0.5	<0.5	**0.7**
Cyanide (total)	<10	<10	<10	<10	<10	<10	<10	<10	**4100**	<10	<10	<10	<10	<10	<10	<10
Cyanide (free)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acenaphthene	<0.02	1	0.11	0.13	0.1	0.1	1.3	0.01	0.05	0.1	<0.02	<0.02	0.03	0.1	0.36	0.02
Acenaphthylene	<0.02	0.81	0.2	0.08	0.04	0.22	0.67	0.03	0.04	0.12	<0.02	<0.02	<0.02	<0.02	0.16	<0.02
Anthracene	<0.02	0.04	<0.02	<0.01	0.05	0.03	4.9	<0.01	<0.04	0.07	<0.02	<0.02	<0.02	0.12	0.58	<0.02
Benzo(a)anthracene	<0.02	0.04	<0.02	<0.01	0.28	0.06	18	0.05	0.07	0.27	<0.02	<0.02	<0.02	0.87	0.21	0.02
Benzo(a)pyrene	**<0.10**	**0.08**	**<0.20**	<0.01	**0.47**	<0.01	**20**	<0.01	**0.08**	**0.34**	**<0.10**	**<0.10**	**<0.10**	**0.97**	**0.17**	**<0.02**
Benzo(b)fluoranthene	<0.10	0.11	<0.20	<0.01	0.43	<0.01	20	0.06	0.1	0.41	<0.10	<0.10	<0.10	0.94	0.21	<0.02
Benzo(ghi)perylene	<0.10	<0.10	<0.20	<0.10	0.45	<0.10	11	0.01	0.1	0.39	<0.10	<0.10	<0.10	0.85	0.18	<0.02
Benzo(k)fluoranthene	<0.10	0.07	<0.20	<0.01	0.41	<0.01	14	0.05	0.09	0.32	<0.10	<0.10	<0.10	0.96	0.18	<0.02
Chrysene	<0.02	0.05	<0.02	<0.01	0.31	0.06	15	0.07	0.08	0.28	<0.02	<0.02	<0.02	0.78	0.31	<0.02
Dibenzo(ah)anthracene	<0.10	<0.10	<0.20	<0.10	0.19	<0.10	4.8	<0.01	<0.10	0.24	<0.10	<0.10	<0.10	0.4	0.2	<0.02
Fluoranthene	<0.02	0.06	0.04	<0.01	0.35	0.09	31	0.1	0.06	0.25	<0.02	<0.02	<0.02	0.65	0.43	0.02
Fluorene	<0.02	0.39	0.07	0.04	0.03	0.08	0.92	0.03	0.04	0.1	<0.02	<0.02	<0.02	0.09	0.54	0.02
Indeno(1,2,3cd)pyrene	<0.10	0.1	<0.20	<0.10	0.53	<0.10	13	<0.01	0.1	0.39	<0.10	<0.10	<0.10	0.72	0.18	<0.02
Naphthalene	<0.02	0.76	0.52	1.1	0.03	0.19	0.35	0.03	0.07	0.14	<0.02	0.02	0.26	0.24	0.5	0.03
Phenanthrene	<0.02	0.11	0.05	0.03	0.13	0.1	8.9	0.03	0.07	0.17	<0.02	<0.02	0.05	0.28	0.76	0.03
Pyrene	<0.02	0.04	0.04	<0.01	0.35	0.08	29	0.09	0.05	0.26	<0.02	<0.02	<0.02	0.62	0.66	0.03
romatic Hydrocarbons (Total)	<0.10	3.7	1	1.4	4.2	1	190	0.56	1	3.9	<0.10	<0.10	0.34	8.6	5.9	0.17
Sum of 4No. PAHs	<0.10	**0.28**	**<0.20**	<0.10	**1.8**	<0.10	**58**	**0.12**	**0.29**	**1.5**	<0.10	<0.10	<0.10	**3.5**	**0.75**	<0.02
(b) and benzo(k)fluoranthene	<0.10	0.18	<0.20	<0.01	0.93	<0.01	34	0.11	0.19	0.73	<0.10	<0.10	<0.10	1.9	0.39	<0.02
rene and benzo(ghi)perylene	<0.10	0.1	<0.20	<0.10	0.98	<0.10	24	0.01	0.1	0.78	<0.10	<0.10	<0.10	1.6	0.36	<0.02
TPH (C8-C10)	**<20**	<10	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	<10	<10
TPH (C10-C12)	**<20**	**14**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**150**	<10
TPH (C12-C16)	**<20**	**40**	**<20**	**<20**	**<20**	**<20**	**53**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**110**	<10
TPH (C16-C21)	**<20**	**12**	**<20**	**<20**	**<20**	**37**	**280**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**50**	**120**	<10
TPH (C21-C35)	**<20**	<10	**<20**	**<20**	**48**	**54**	**1200**	**120**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**75**	<10
TPH (C35-C40)	**<20**	<10	**<20**	**<20**	**<20**	**<20**	**430**	**160**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	<10	<10
Total TPH (C8-C40)	**<20**	**60**	**<20**	**<20**	**50**	**90**	**1960**	**280**	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**	**450**	<10

Substance		Screening Criteria		Number of Analyses	Reported Minimum Value	Reported Maximum Value	Statistical Mean	Standard Deviation	Number of Exceedances
		-	-						-
pH		-	-	31	7.6	9.4	8.19	0.38	-
		-	-						-
Arsenic	ug/l	10	UK DWS	31	0.4	56	8.07	10.8	8
Boron	ug/l	1000	UK DWS	31	<10	1100	161	259	1
Cadmium	ug/l	5	UK DWS	31	<0.02	0.07	0.028	0.015	0
Chromium (total)	ug/l	50	UK DWS	31	<1	16	2.65	2.89	0
Chromium (III)	ug/l	-	-	31	<3	16	3.74	2.42	-
Chromium (VI)	ug/l	-	-	31	<3	10	3.35	1.43	-
Copper	ug/l	2000	UK DWS	31	0.8	30	5.37	6.27	0
Lead	ug/l	10	UK DWS	31	<0.3	7	0.96	1.44	0
Mercury	ug/l	1	UK DWS	31	<0.05	0.17	0.067	0.04	0
Nickel	ug/l	20	UK DWS	31	<1	3	1.35	0.66	0
Selenium	ug/l	10	UK DWS	31	<0.5	2.5	1	0.46	0
Zinc	ug/l	5000	UK DWS	31	<2	8	3.19	1.64	0
		-	-						-
Sulphate	mg/l	250	UK DWS	31	<0.5	78	20.7	23.6	0
Sulphide	mg/l	-	-	31	<0.05	<0.05	0.05	2.12E-17	-
Sulphur (total	mg/l	-	-	31	<0.01	26	7.33	8.83	-
		-	-						-
Phenols (total)	ug/l	0.5	UK DWS	31	<0.5	12	1.46	2.37	15
Cyanide (total)	ug/l	50	UK DWS	31	<10	4100	142	735	1
Cyanide (free)	ug/l	50	UK DWS	31	<10	<10	10	0	0
		-	-						-
Acenaphthene	ug/l	-	-	31	<0.01	1.3	0.14	0.29	-
Acenaphthylene	ug/l	-	-	31	<0.01	0.81	0.1	0.18	-
Anthracene	ug/l	-	-	31	<0.01	4.9	0.23	0.88	-
Benzo(a)anthracene	ug/l	-	-	31	<0.01	18	0.76	3.22	-
Benzo(a)pyrene	ug/l	0.01	UK DWS	31	<0.01	20	0.88	3.58	26
Benzo(b)fluoranthene	ug/l	-	-	31	<0.01	20	0.89	3.58	-
Benzo(ghi)perylene	ug/l	-	-	31	<0.01	11	0.55	1.97	-
Benzo(k)fluoranthene	ug/l	-	-	31	<0.01	14	0.68	2.51	-
Chrysene	ug/l	-	-	31	<0.01	15	0.66	2.68	-
Dibenzo(ah)anthracene	ug/l	-	-	31	<0.01	4.8	0.26	0.85	-
Fluoranthene	ug/l	-	-	31	<0.01	31	1.43	5.68	-
Fluorene	ug/l	-	-	31	<0.01	0.92	0.097	0.19	-
Indeno(1,2,3cd)pyrene	ug/l	-	-	31	<0.01	13	0.62	2.32	-
Naphthalene	ug/l	-	-	31	<0.01	1.1	0.2	0.25	-
Phenanthrene	ug/l	-	-	31	0.01	8.9	0.42	1.59	-
Pyrene	ug/l	-	-	31	<0.01	29	1.34	5.31	-
Polyaromatic Hydrocarbons (Total)	ug/l	-	-	31	<0.1	190	8.93	34.1	-
Sum of 4No. PAHs	ug/l	0.1	UK DWS	30	<0.02	58	2.72	10.6	18
Sum of benzo(b) and benzo(k)fluoranthene	ug/l	-	-	31	<0.01	34	1.55	6.09	-
Sum of indeno(123-cd)pyrene and benzo(ghi)perylene	ug/l	-	-	30	0.01	24	1.18	4.37	-
	ug/l	-	-						-
TPH (C8-C10)	ug/l	10	UK DWS	31	<0.01	<50	19.4	11.2	22
TPH (C10-C12)	ug/l	10	UK DWS	31	<0.01	150	24	25.8	24
TPH (C12-C16)	ug/l	10	UK DWS	31	<0.01	110	25.6	20.5	25
TPH (C16-C21)	ug/l	10	UK DWS	31	<0.01	280	39.8	56.8	25
TPH (C21-C35)	ug/l	10	UK DWS	31	<0.01	1200	86.3	235	24
TPH (C35-C40)	ug/l	10	UK DWS	31	<0.01	430	41.9	80.8	23
Total TPH (C8-C40)	ug/l	10	UK DWS	31	<0.01	1960	146	388	25
		-	-						-
Benzene	ug/l	1	UK DWS						
Ethylbenzene	ug/l	300	WHO DWS 2011						
Toluene	ug/l	700	WHO DWS 2011						
Meta/Para-Xylene	ug/l	-	-						-
Ortho-Xylene	ug/l	-	-						-
Methyl tert-Butyl Ether	ug/l	-	-						-
Sum of Xylenes	ug/l	500	WHO DWS 2011						
		-	-						-

Grontmij Limited

Multiplier:		1 x"<"	Highways Agency | A63 - Castle Street LEACHATE DWS (112630)					
	Strata		Natural	Natural	Natural	Natural	Natural	Natural
	Observed Contamination							
	Sample Description		Clay	Clay	Clay	Clay	Clay	Clay
	Date	-	18-Jul-13	26-Jul-13	02-Aug-13	12-Aug-13	07-Aug-13	29-Aug-13
	Sample ID	-	**BH33**	**BH02**	**BH03**	**BH43**	**BH08**	**WS01**
	Depth	m	**2**	**2.8**	**4.5**	**7**	**4**	**2.5-3.0**
Screening Level	**Substance**	**Units**						
-								
-	pH		8.3	7.7	7.7	8.4	8.2	8.1
-								
10	Arsenic	ug/l	2.9	1	3.9	0.6	0.9	3.2
1000	Boron	ug/l	260	62	240	70	60	10
5	Cadmium	ug/l	0.02	<0.02	0.05	<0.02	<0.02	<0.02
50	Chromium (total)	ug/l	<1	1	4	<1	<1	5
-	Chromium (III)	ug/l	<3	<3	4	<3	<3	5
-	Chromium (VI)	ug/l	<3	<3	<3	<3	<3	<3
2000	Copper	ug/l	1.4	2.4	1.1	<0.5	<0.5	1.4
10	Lead	ug/l	<0.3	7.9	<0.3	<0.3	<0.3	<0.3
1	Mercury	ug/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
20	Nickel	ug/l	2	3	1	<1	<1	<1
10	Selenium	ug/l	<0.5	<0.5	1.3	<0.5	<0.5	1.1
5000	Zinc	ug/l	<2	7	3	<2	<2	3
-								
250	Sulphate	mg/l	59	66	72	51	53	64
-	Sulphide	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
-	Sulphur (total	mg/l	21	23	26	19	20	<0.01
-								
0.5	Phenols (total)	ug/l	**<0.8**	<0.5	**<0.6**	**<0.7**	**<0.7**	<0.5
50	Cyanide (total)	ug/l	<10	<10	<10	<10	<10	<10
50	Cyanide (free)	ug/l	<10	<10	<10	<10	<10	<10
-								
-	Acenaphthene	ug/l	<0.02	<0.02	0.02	<0.02	<0.02	<0.02
-	Acenaphthylene	ug/l	<0.02	<0.02	0.14	<0.02	0.03	<0.02
-	Anthracene	ug/l	<0.02	<0.02	0.02	<0.02	<0.02	0.19
-	Benzo(a)anthracene	ug/l	<0.02	<0.02	<0.02	<0.02	<0.02	0.62
0.01	Benzo(a)pyrene	ug/l	**<0.02**	**<0.02**	**<0.02**	**<0.10**	**<0.10**	**0.41**
-	Benzo(b)fluoranthene	ug/l	<0.02	<0.02	<0.02	<0.10	<0.10	0.49
-	Benzo(ghi)perylene	ug/l	<0.02	<0.02	<0.02	<0.10	<0.10	0.63
-	Benzo(k)fluoranthene	ug/l	<0.02	<0.02	<0.02	<0.10	<0.10	0.6
-	Chrysene	ug/l	<0.02	<0.02	<0.02	<0.02	<0.02	0.59
-	Dibenzo(ah)anthracene	ug/l	<0.02	<0.02	<0.02	<0.10	<0.10	0.69
-	Fluoranthene	ug/l	<0.02	<0.02	0.04	<0.02	<0.02	0.44
-	Fluorene	ug/l	<0.02	<0.02	0.04	<0.02	<0.02	0.03
-	Indeno(1,2,3cd)pyrene	ug/l	<0.02	<0.02	<0.02	<0.10	<0.10	0.65
-	Naphthalene	ug/l	<0.02	<0.02	0.02	<0.02	<0.02	<0.02
-	Phenanthrene	ug/l	<0.02	<0.02	0.06	<0.02	<0.02	0.21
-	Pyrene	ug/l	<0.02	<0.02	0.03	<0.02	<0.02	0.43
-	omatic Hydrocarbons (Total)	ug/l	<0.02	<0.02	0.37	<0.10	<0.10	6
0.1	Sum of 4No. PAHs	ug/l	**N.D.**	**N.D.**	<0.02	<0.10	<0.10	**2.4**
-	b) and benzo(k)fluoranthene	ug/l	<0.02	<0.02	<0.02	<0.10	<0.10	1.1
-	rene and benzo(ghi)perylene	ug/l	**N.D.**	**N.D.**	<0.02	<0.10	<0.10	1.3
-		ug/l						
10	TPH (C8-C10)	ug/l	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**
10	TPH (C10-C12)	ug/l	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**
10	TPH (C12-C16)	ug/l	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**
10	TPH (C16-C21)	ug/l	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**
10	TPH (C21-C35)	ug/l	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**
10	TPH (C35-C40)	ug/l	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**
10	Total TPH (C8-C40)	ug/l	**<20**	**<20**	**<20**	**<20**	**<20**	**<20**

Substance		Screening Criteria		Number of Analyses	Reported Minimum Value	Reported Maximum Value	Statistical Mean	Standard Deviation	Number of Exceedances
		-	-						-
pH		-	-	6	7.7	8.4	8.07	0.3	-
		-	-						-
Arsenic	ug/l	10	UK DWS	6	0.6	3.9	2.08	1.41	0
Boron	ug/l	1000	UK DWS	6	10	260	117	105	0
Cadmium	ug/l	5	UK DWS	6	<0.02	0.05	0.025	0.012	0
Chromium (total)	ug/l	50	UK DWS	6	<1	5	2.17	1.83	0
Chromium (III)	ug/l	-	-	6	<3	5	3.5	0.84	-
Chromium (VI)	ug/l	-	-	6	<3	<3	3	0	-
Copper	ug/l	2000	UK DWS	6	<0.5	2.4	1.22	0.71	0
Lead	ug/l	10	UK DWS	6	<0.3	7.9	1.57	3.1	0
Mercury	ug/l	1	UK DWS	6	<0.05	<0.05	0.05	7.60E-18	0
Nickel	ug/l	20	UK DWS	6	<1	3	1.5	0.84	0
Selenium	ug/l	10	UK DWS	6	<0.5	1.3	0.73	0.37	0
Zinc	ug/l	5000	UK DWS	6	<2	7	3.17	1.94	0
		-	-						-
Sulphate	mg/l	250	UK DWS	6	51	72	60.8	8.04	0
Sulphide	mg/l	-	-	6	<0.05	<0.05	0.05	7.60E-18	-
Sulphur (total	mg/l	-	-	6	<0.01	26	18.2	9.24	-
		-	-						-
Phenols (total)	ug/l	0.5	UK DWS	6	<0.5	<0.8	0.63	0.12	4
Cyanide (total)	ug/l	50	UK DWS	6	<10	<10	10	0	0
Cyanide (free)	ug/l	50	UK DWS	6	<10	<10	10	0	0
		-	-						-
Acenaphthene	ug/l	-	-	6	<0.02	0.02	0.02	0	-
Acenaphthylene	ug/l	-	-	6	<0.02	0.14	0.042	0.048	-
Anthracene	ug/l	-	-	6	<0.02	0.19	0.048	0.069	-
Benzo(a)anthracene	ug/l	-	-	6	<0.02	0.62	0.12	0.24	-
Benzo(a)pyrene	ug/l	0.01	UK DWS	6	<0.02	0.41	0.11	0.15	6
Benzo(b)fluoranthene	ug/l	-	-	6	<0.02	0.49	0.13	0.18	-
Benzo(ghi)perylene	ug/l	-	-	6	<0.02	0.63	0.15	0.24	-
Benzo(k)fluoranthene	ug/l	-	-	6	<0.02	0.6	0.14	0.23	-
Chrysene	ug/l	-	-	6	<0.02	0.59	0.12	0.23	-
Dibenzo(ah)anthracene	ug/l	-	-	6	<0.02	0.69	0.16	0.26	-
Fluoranthene	ug/l	-	-	6	<0.02	0.44	0.093	0.17	-
Fluorene	ug/l	-	-	6	<0.02	0.04	0.025	0.0084	-
Indeno(1,2,3cd)pyrene	ug/l	-	-	6	<0.02	0.65	0.15	0.25	-
Naphthalene	ug/l	-	-	6	<0.02	0.02	0.02	0	-
Phenanthrene	ug/l	-	-	6	<0.02	0.21	0.058	0.076	-
Pyrene	ug/l	-	-	6	<0.02	0.43	0.09	0.17	-
Polyaromatic Hydrocarbons (Total)	ug/l	-	-	6	<0.02	6	1.1	2.4	-
Sum of 4No. PAHs	ug/l	0.1	UK DWS	4	<0.02	2.4	0.66	1.16	1
Sum of benzo(b) and benzo(k)fluoranthene	ug/l	-	-	6	<0.02	1.1	0.23	0.43	-
Sum of indeno(123-cd)pyrene and benzo(ghi)perylene	ug/l	-	-	4	<0.02	1.3	0.38	0.61	-
	ug/l	-	-						-
TPH (C8-C10)	ug/l	10	UK DWS	6	<20	<20	20	0	6
TPH (C10-C12)	ug/l	10	UK DWS	6	<20	<20	20	0	6
TPH (C12-C16)	ug/l	10	UK DWS	6	<20	<20	20	0	6
TPH (C16-C21)	ug/l	10	UK DWS	6	<20	<20	20	0	6
TPH (C21-C35)	ug/l	10	UK DWS	6	<20	<20	20	0	6
TPH (C35-C40)	ug/l	10	UK DWS	6	<20	<20	20	0	6
Total TPH (C8-C40)	ug/l	10	UK DWS	6	<20	<20	20	0	6
		-	-						-
Benzene	ug/l	1	UK DWS						
Ethylbenzene	ug/l	300	WHO DWS 2011						
Toluene	ug/l	700	WHO DWS 2011						
Meta/Para-Xylene	ug/l	-	-						-
Ortho-Xylene	ug/l	-	-						-
Methyl tert-Butyl Ether	ug/l	-	-						-
Sum of Xylenes	ug/l	500	WHO DWS 2011						
		-	-						-

Appendix H2b: Leachability results (controlled waters – EQS)

Grontmij Limited

Multiplier:			1 x"<"	Highways Agency | A63 Castle Street - LEACHATE EQS (112630)															
	Strata			Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground
	Observed Contamination																		
	Sample Description			Sandy Soil	Sandy Soil	Sandy Soil	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Sandy Soil	Clay	Clay	Sandy Soil	Clay
	Date	-		17-Jul-13	17-Jul-13	17-Jul-13	24-Jul-13	24-Jul-13	30-Jul-13	30-Jul-13	02-Aug-13	02-Aug-13	02-Aug-13	02-Aug-13	06-Aug-13	06-Aug-13	06-Aug-13	06-Aug-13	09-Aug-13
	Sample ID	-		**BH19A**	**BH39**	**SCPT20**	**BH37**	**BH22**	**BH40A**	**BH03**	**BH07**	**BH03**	**BH38**	**BH38**	**SCPT24**	**BH09**	**BH45**	**BH45**	**BH17**
	Depth	m		**1.05**	**0.5**	**0.5**	**4**	**0.5**	**6.7**	**0.7**	**0.5**	**1.5**	**2**	**8.5**	**0.5**	**1.6**	**2.5**	**0.3**	**2.25**
Screening Level	**Substance**	**Units**																	
-																			
-	pH			9.4	9.1	8.8	8.2	7.9	7.9	8.1	8.3	8	8.1	7.9	7.6	8.1	8.2	7.8	8.7
-																			
25	Arsenic	ug/l		4.6	3.5	25	**56**	3.7	2.1	0.6	12	1.2	2.6	7.8	7	1.6	3.6	11	0.5
7000	Boron	ug/l		150	83	200	1100	25	270	40	13	28	180	310	11	22	68	49	28
0.2	Cadmium	ug/l		<0.02	<0.02	<0.02	0.07	<0.02	0.03	<0.02	<0.02	0.03	0.07	0.04	<0.02	0.04	0.03	<0.02	<0.02
-	Chromium (total)	ug/l		2	<1	<1	<1	2	1	<1	2	3	3	5	4	1	<1	1	<1
4.7	Chromium (III)	ug/l		<3	<3	<3	<3	<3	<3	<3	<3	3	3	**5**	4	<3	<3	<3	<3
0.6	Chromium (VI)	ug/l		**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**
5	Copper	ug/l		**30**	1.2	**17**	1	**16**	3.6	2.7	**5.8**	1.8	1	2.6	**13**	2	4.8	2.9	1.2
7.2	Lead	ug/l		<0.3	<0.3	7	0.5	2.2	<0.3	0.4	0.6	<0.3	<0.3	0.9	1.7	0.9	<0.3	0.8	<0.3
0.05	Mercury	ug/l		<0.05	<0.05	**0.09**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
20	Nickel	ug/l		3	<1	3	2	<1	1	<1	1	<1	2	2	2	<1	1	<1	<1
-	Selenium	ug/l		0.6	<0.5	1	0.8	0.7	1.2	<0.5	0.8	1.5	1.2	2.5	1.2	<0.5	0.7	<0.5	0.8
40	Zinc	ug/l		<2	4	5	<2	<2	<2	<2	4	2	<2	3	5	3	2	<2	2
-																			
-	Sulphate	mg/l		24	1.2	69	65	6.7	78	7.4	0.7	9.8	39	19	9.7	6	24	23	12
-	Sulphide	mg/l		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
-	Sulphur (total)	mg/l		9.4	0.41	24	22	2.1	26	1.8	0.65	3.6	13	6.1	4	1.7	6.8	8.5	4.2
-																			
7.7	Phenols (total)	ug/l		<5.0	<5.0	<5.0	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.6	2.2	<0.5	<0.9	<0.9	<0.9	<0.9
1	Cyanide (total)	ug/l		**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**
1	Cyanide (free)	ug/l		**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**
-																			
-	Acenaphthene	ug/l		<0.02	<0.02	0.34	<0.01	0.02	0.05	0.05	0.02	0.03	0.02	0.07	0.04	<0.02	0.03	<0.02	<0.02
-	Acenaphthylene	ug/l		<0.02	<0.02	0.07	<0.01	<0.01	<0.02	0.02	0.08	0.2	0.01	0.07	0.07	<0.02	<0.02	0.11	<0.02
0.1	Anthracene	ug/l		<0.02	<0.02	**0.11**	<0.01	0.02	0.05	<0.02	0.02	<0.01	<0.02	0.05	**0.68**	<0.02	<0.02	**0.14**	<0.02
-	Benzo(a)anthracene	ug/l		<0.02	<0.02	0.17	0.04	0.09	0.03	<0.02	<0.01	<0.01	<0.02	0.06	1.6	0.09	0.15	1.3	<0.02
0.05	Benzo(a)pyrene	ug/l		<0.02	<0.02	**0.19**	**0.06**	**0.12**	0.05	0.02	<0.01	<0.01	<0.02	**0.07**	**2.5**	**0.13**	**0.18**	**1.2**	**<0.10**
-	Benzo(b)fluoranthene	ug/l		<0.02	<0.02	0.24	0.06	0.15	0.07	0.02	0.01	<0.01	<0.02	0.06	2.2	0.15	0.19	1.4	<0.10
-	Benzo(ghi)perylene	ug/l		<0.02	<0.02	0.22	0.05	0.15	0.05	0.02	0.01	<0.01	<0.02	0.04	1.6	0.11	0.15	0.81	<0.10
-	Benzo(k)fluoranthene	ug/l		<0.02	<0.02	1.2	0.03	0.11	0.03	<0.02	<0.01	<0.01	<0.02	0.05	1.9	0.1	0.15	0.8	<0.10
-	Chrysene	ug/l		<0.02	<0.02	0.15	0.06	0.1	0.05	<0.02	<0.01	<0.01	<0.02	0.05	1.3	0.11	0.16	1.3	<0.02
-	Dibenzo(ah)anthracene	ug/l		<0.02	<0.02	0.09	0.03	0.11	0.02	<0.02	0.01	<0.01	<0.02	0.04	0.41	<0.10	<0.10	0.24	<0.10
0.1	Fluoranthene	ug/l		<0.02	<0.02	**0.26**	0.03	0.06	0.08	<0.02	0.02	<0.01	<0.02	0.06	**8**	<0.02	0.06	**2.4**	<0.02
-	Fluorene	ug/l		<0.02	<0.02	0.06	<0.01	0.02	0.08	0.03	0.05	0.06	0.02	0.1	0.04	<0.02	0.02	<0.02	<0.02
-	Indeno(1,2,3cd)pyrene	ug/l		<0.02	<0.02	0.19	0.05	0.13	0.02	<0.02	<0.01	<0.01	<0.02	0.02	1.6	0.1	0.15	1.1	<0.10
1.2	Naphthalene	ug/l		0.38	0.31	0.31	<0.01	0.06	0.1	0.11	0.04	0.03	0.05	0.13	0.06	0.08	0.28	<0.02	<0.02
-	Phenanthrene	ug/l		<0.02	<0.02	0.09	0.03	0.04	0.21	0.05	0.05	0.01	0.02	0.15	1.2	<0.02	0.06	0.29	<0.02
-	Pyrene	ug/l		<0.02	<0.02	0.22	0.02	0.06	0.08	0.02	0.01	<0.01	<0.02	0.08	7.4	<0.02	0.04	2.3	<0.02
-	Polyaromatic Hydrocarbons (Total)	ug/l		0.38	0.31	2.5	0.55	1.5	0.9	0.32	0.32	0.33	0.12	1.1	31	0.87	1.6	13	<0.10
-	Sum of 4No. PAHs	ug/l		<0.02	<0.02	0.77	0.19	0.54	0.17	0.04	0.02	**N.D.**	<0.02	0.17	7.3	0.46	0.64	4.1	<0.10
0.03	Sum of benzo(b) and benzo(k)fluoranthene	ug/l		<0.02	<0.02	**1.4**	**0.09**	**0.26**	**0.1**	0.02	0.01	<0.01	<0.02	**0.11**	**4.1**	**0.25**	**0.34**	**2.2**	**<0.10**
0.002	Sum of indeno(123-cd)pyrene and benzo(ghi)perylene	ug/l		**<0.02**	**<0.02**	**0.41**	**0.1**	**0.28**	**0.07**	**0.02**	**0.01**	**N.D.**	**<0.02**	**0.06**	**3.2**	**0.21**	**0.3**	**1.9**	**<0.10**
-																			
-	TPH (C8-C10)	ug/l		<10	<10	<10	<30	<20	<20	<30	<50	<40	<20	<40	<30	<0.01	<0.01	<0.01	<20
-	TPH (C10-C12)	ug/l		<10	<10	<10	<30	<20	<20	<30	<50	<40	<20	<40	<30	<0.01	<0.01	<0.01	<20
-	TPH (C12-C16)	ug/l		<10	<10	42	<30	<20	<20	<30	<50	<40	<20	<40	<30	<0.01	<0.01	<0.01	<20
-	TPH (C16-C21)	ug/l		<10	<10	170	<30	<20	<20	<30	<50	<40	<20	<40	86	<0.01	<0.01	0.03	<20
-	TPH (C21-C35)	ug/l		<10	<10	630	<30	<20	<20	<30	<50	<40	<20	<40	79	<0.01	<0.01	0.07	<20
-	TPH (C35-C40)	ug/l		<10	<10	160	<30	<20	<20	<30	<50	<40	<20	<40	<30	<0.01	<0.01	0.01	<20
-	Total TPH (C8-C40)	ug/l		<10	<10	1000	<30	<20	<20	<30	<50	<40	<20	<40	170	<0.01	<0.01	0.11	<20

1															
Strata	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground	Made Ground
Observed Contamination															
Sample Description	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Clay	Clay	Sandy Soil	Clay	Clay
Date	14-Aug-13	16-Aug-13	20-Aug-13	20-Aug-13	19/08/2013	21-Aug-13	21-Aug-13	28-Aug-13	29-Aug-13	03-Sep-13	03-Sep-13	03-Sep-13	03-Sep-13	10-Sep-13	30-Jul-13
Sample ID	**BH29**	**WS24**	**WS11**	**WS06**	**SCPT13**	**WS12A**	**BH16A**	**TP05**	**SCPT18**	**WS25**	**WS26**	**WS26**	**TP18**	**TP11**	**SCPT01**
Depth	**1.5**	**0.2**	**0.5**	**0.5**	**0.5**	**0.4-0.6**	**1.5**	**0.5-0.6**	**0.6-1.0**	**1.83-2.0**	**1.2-1.5**	**2.0-2.5**	**0.25-0.4**	**1.6**	**1**
Substance															
pH	8.1	8.4	8.1	7.9	7.9	8	8.1	8.1	7.8	8.5	8.1	8.2	8.4	8.2	8
Arsenic	0.4	8.3	3.6	9.6	2.4	11	19	0.8	8.2	13	3.2	6.1	19	2.3	0.6
Boron	22	280	89	39	34	990	55	<10	<10	440	110	150	25	81	70
Cadmium	<0.02	0.02	0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	0.02	<0.02	<0.02	0.07	<0.02
Chromium (total)	<1	2	1	2	2	<1	<1	3	6	3	6	3	16	4	<1
Chromium (III)	<3	<3	<3	<3	<3	<3	<3	3	**6**	3	**6**	3	**16**	4	<3
Chromium (VI)	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**7**	**<3**	**<3**	**10**	**<3**	**<3**
Copper	2	**8.1**	2.8	**8.1**	4.1	3.7	1.1	3.3	**7.5**	0.8	4.5	1.3	**9.1**	1	2.6
Lead	<0.3	0.5	<0.3	4	1	0.3	<0.3	<0.3	3.5	0.4	<0.3	<0.3	0.7	<0.3	<0.3
Mercury	<0.05	<0.05	<0.05	**0.06**	<0.05	<0.05	<0.05	<0.05	<0.05	**0.17**	**0.17**	**0.16**	**0.17**	<0.05	<0.05
Nickel	<1	1	<1	1	<1	<1	<1	<1	3	<1	1	<1	<1	2	<1
Selenium	1.2	1.3	1.2	0.9	0.9	0.8	0.7	0.7	2.3	1.1	1.1	0.9	1.2	0.6	1.1
Zinc	<2	5	5	7	5	<2	<2	3	8	2	4	2	4	<2	<2
Sulphate	24	3.4	7.9	2.5	7.7	12	7.2	1	24	70	14	<0.5	<0.5	7.7	65
Sulphide	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur (total)	26	2	2.5	1.6	1.9	3.6	2.2	<0.01	<0.01	24	4.7	1.6	0.71	<0.01	22
Phenols (total)	<0.7	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	0.9	**12**	<0.5	<0.5	0.7
Cyanide (total)	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**4100**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**
Cyanide (free)	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**
Acenaphthene	1	0.11	0.13	0.1	0.1	1.3	0.01	0.05	0.1	<0.02	<0.02	0.03	0.1	0.36	0.02
Acenaphthylene	0.81	0.2	0.08	0.04	0.22	0.67	0.03	0.04	0.12	<0.02	<0.02	<0.02	<0.02	0.16	<0.02
Anthracene	0.04	<0.02	<0.01	0.05	0.03	**4.9**	<0.01	<0.04	0.07	<0.02	<0.02	<0.02	**0.12**	**0.58**	<0.02
Benzo(a)anthracene	0.04	<0.02	<0.01	0.28	0.06	18	0.05	0.07	0.27	<0.02	<0.02	<0.02	0.87	0.21	0.02
Benzo(a)pyrene	**0.08**	**<0.20**	<0.01	**0.47**	<0.01	**20**	<0.01	**0.08**	**0.34**	**<0.10**	**<0.10**	**<0.10**	**0.97**	**0.17**	<0.02
Benzo(b)fluoranthene	0.11	<0.20	<0.01	0.43	<0.01	20	0.06	0.1	0.41	<0.10	<0.10	<0.10	0.94	0.21	<0.02
Benzo(ghi)perylene	<0.10	<0.20	<0.10	0.45	<0.10	11	0.01	0.1	0.39	<0.10	<0.10	<0.10	0.85	0.18	<0.02
Benzo(k)fluoranthene	0.07	<0.20	<0.01	0.41	<0.01	14	0.05	0.09	0.32	<0.10	<0.10	<0.10	0.96	0.18	<0.02
Chrysene	0.05	<0.02	<0.01	0.31	0.06	15	0.07	0.08	0.28	<0.02	<0.02	<0.02	0.78	0.31	<0.02
Dibenzo(ah)anthracene	<0.10	<0.20	<0.10	0.19	<0.10	4.8	<0.01	<0.10	0.24	<0.10	<0.10	<0.10	0.4	0.2	<0.02
Fluoranthene	0.06	0.04	<0.01	**0.35**	0.09	**31**	0.1	0.06	**0.25**	<0.02	<0.02	<0.02	**0.65**	**0.43**	0.02
Fluorene	0.39	0.07	0.04	0.03	0.08	0.92	0.03	0.04	0.1	<0.02	<0.02	<0.02	0.09	0.54	0.02
Indeno(1,2,3cd)pyrene	0.1	<0.20	<0.10	0.53	<0.10	13	<0.01	0.1	0.39	<0.10	<0.10	<0.10	0.72	0.18	<0.02
Naphthalene	0.76	0.52	1.1	0.03	0.19	0.35	0.03	0.07	0.14	<0.02	0.02	0.26	0.24	0.5	0.03
Phenanthrene	0.11	0.05	0.03	0.13	0.1	8.9	0.03	0.07	0.17	<0.02	<0.02	0.05	0.28	0.76	0.03
Pyrene	0.04	0.04	<0.01	0.35	0.08	29	0.09	0.05	0.26	<0.02	<0.02	<0.02	0.62	0.66	0.03
Polyaromatic Hydrocarbons (Total)	3.7	1	1.4	4.2	1	190	0.56	1	3.9	<0.10	<0.10	0.34	8.6	5.9	0.17
Sum of 4No. PAHs	0.28	<0.20	<0.10	1.8	<0.10	58	0.12	0.29	1.5	<0.10	<0.10	<0.10	3.5	0.75	<0.02
Sum of benzo(b) and benzo(k)fluoranthene	**0.18**	**<0.20**	<0.01	**0.93**	<0.01	**34**	**0.11**	**0.19**	**0.73**	**<0.10**	**<0.10**	**<0.10**	**1.9**	**0.39**	<0.02
Sum of indeno(123-cd)pyrene and benzo(ghi)perylene	**0.1**	**<0.20**	**<0.10**	**0.98**	**<0.10**	**24**	**0.01**	**0.1**	**0.78**	**<0.10**	**<0.10**	**<0.10**	**1.6**	**0.36**	**<0.02**
TPH (C8-C10)	<10	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<10	<10
TPH (C10-C12)	14	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	150	<10
TPH (C12-C16)	40	<20	<20	<20	<20	53	<20	<20	<20	<20	<20	<20	<20	110	<10
TPH (C16-C21)	12	<20	<20	<20	37	280	<20	<20	<20	<20	<20	<20	50	120	<10
TPH (C21-C35)	<10	<20	<20	48	54	1200	120	<20	<20	<20	<20	<20	<20	75	<10
TPH (C35-C40)	<10	<20	<20	<20	<20	430	160	<20	<20	<20	<20	<20	<20	<10	<10
Total TPH (C8-C40)	60	<20	<20	50	90	1960	280	<20	<20	<20	<20	<20	<20	450	<10

Substance		Screening Criteria		Number of Analyses	Reported Minimum Value	Reported Maximum Value	Statistical Mean	Standard Deviation	Number of Exceedances
		-	-						-
pH		-	-	31	7.6	9.4	8.19	0.38	-
		-	-						-
Arsenic	ug/l	25	WFD 2010 Part 4 (Coastal Waters)	31	0.4	56	8.07	10.8	1
Boron	ug/l	7000	UK Estuary & Coastal EQS 2004	31	<10	1100	161	259	0
Cadmium	ug/l	0.2	WFD 2010 Part 5 (Coastal Waters)	31	<0.02	0.07	0.028	0.015	0
Chromium (total)	ug/l	-	-	31	<1	16	2.65	2.89	-
Chromium (III)	ug/l	4.7	WFD 2010 Part 4 (Freshwater)	31	<3	16	3.74	2.42	4
Chromium (VI)	ug/l	0.6	WFD 2010 Part 4 (Coastal Waters)	31	<3	10	3.35	1.43	31
Copper	ug/l	5	WFD 2010 Part 4 (Coastal Waters)	31	0.8	30	5.37	6.27	9
Lead	ug/l	7.2	WFD 2010 Part 5 (Coastal Waters)	31	<0.3	7	0.96	1.44	0
Mercury	ug/l	0.05	WFD 2010 Part 5 (Coastal Waters)	31	<0.05	0.17	0.067	0.04	6
Nickel	ug/l	20	WFD 2010 Part 5 (Coastal Waters)	31	<1	3	1.35	0.66	0
Selenium	ug/l	-	-	31	<0.5	2.5	1	0.46	-
Zinc	ug/l	40	WFD 2010 Part 4 (Coastal Waters)	31	<2	8	3.19	1.64	0
		-	-						-
Sulphate	mg/l	-	-	31	<0.5	78	20.7	23.6	-
Sulphide	mg/l	-	-	31	<0.05	<0.05	0.05	2.12E-17	-
Sulphur (total)	mg/l	-	-	31	<0.01	26	7.33	8.83	-
		-	-						-
Phenols (total)	ug/l	7.7	WFD 2010 Part 4 (Coastal Waters)	31	<0.5	12	1.46	2.37	1
Cyanide (total)	ug/l	1	WFD 2010 Part 4 (Coastal Waters)	31	<10	4100	142	735	31
Cyanide (free)	ug/l	1	WFD 2010 Part 4 (Coastal Waters)	31	<10	<10	10	0	31
		-	-						-
Acenaphthene	ug/l	-	-	31	<0.01	1.3	0.14	0.29	-
Acenaphthylene	ug/l	-	-	31	<0.01	0.81	0.1	0.18	-
Anthracene	ug/l	0.1	WFD 2010 Part 5 (Coastal Waters)	31	<0.01	4.9	0.23	0.88	6
Benzo(a)anthracene	ug/l	-	-	31	<0.01	18	0.76	3.22	-
Benzo(a)pyrene	ug/l	0.05	WFD 2010 Part 5 (Coastal Waters)	31	<0.01	20	0.88	3.58	20
Benzo(b)fluoranthene	ug/l	-	-	31	<0.01	20	0.89	3.58	-
Benzo(ghi)perylene	ug/l	-	-	31	<0.01	11	0.55	1.97	-
Benzo(k)fluoranthene	ug/l	-	-	31	<0.01	14	0.68	2.51	-
Chrysene	ug/l	-	-	31	<0.01	15	0.66	2.68	-
Dibenzo(ah)anthracene	ug/l	-	-	31	<0.01	4.8	0.26	0.85	-
Fluoranthene	ug/l	0.1	WFD 2010 Part 5 (Coastal Waters)	31	<0.01	31	1.43	5.68	8
Fluorene	ug/l	-	-	31	<0.01	0.92	0.097	0.19	-
Indeno(1,2,3cd)pyrene	ug/l	-	-	31	<0.01	13	0.62	2.32	-
Naphthalene	ug/l	1.2	WFD 2010 Part 5 (Coastal Waters)	31	<0.01	1.1	0.2	0.25	0
Phenanthrene	ug/l	-	-	31	0.01	8.9	0.42	1.59	-
Pyrene	ug/l	-	-	31	<0.01	29	1.34	5.31	-
Polyaromatic Hydrocarbons (Total)	ug/l	-	-	31	<0.1	190	8.93	34.1	-
Sum of 4No. PAHs	ug/l	-	-	30	<0.02	58	2.72	10.6	-
Sum of benzo(b) and benzo(k)fluoranthene	ug/l	0.03	WFD 2010 Part 5 (Coastal Waters)	31	<0.01	34	1.55	6.09	22
Sum of indeno(123-cd)pyrene and benzo(ghi)perylene	ug/l	0.002	WFD 2010 Part 5 (Coastal Waters)	30	0.01	24	1.18	4.37	30
		-	-						-
TPH (C8-C10)	ug/l	-	-	31	<0.01	<50	19.4	11.2	-
TPH (C10-C12)	ug/l	-	-	31	<0.01	150	24	25.8	-
TPH (C12-C16)	ug/l	-	-	31	<0.01	110	25.6	20.5	-
TPH (C16-C21)	ug/l	-	-	31	<0.01	280	39.8	56.8	-
TPH (C21-C35)	ug/l	-	-	31	<0.01	1200	86.3	235	-
TPH (C35-C40)	ug/l	-	-	31	<0.01	430	41.9	80.8	-
Total TPH (C8-C40)	ug/l	-	-	31	<0.01	1960	146	388	-
		-	-						-
Benzene	ug/l	8	WFD 2010 Part 5 (Coastal Waters)						
Ethylbenzene	ug/l	20	UK Estuary & Coastal EQS 2004						
Toluene	ug/l	40	WFD 2010 Part 4 (Coastal Waters)						
Meta/Para-Xylene	ug/l	-	-						-
Ortho-Xylene	ug/l	-	-						-
Methyl tert-Butyl Ether	ug/l	-	-						-
Sum of Xylenes	ug/l	30	WFD 2010 Part 6 (Coastal Waters)						
		-	-						-

Grontmij Limited

Multiplier:		1 x"<"	Highways Agency | A63 Castle Street - LEACHATE EQS (112630)					
	Strata		Natural	Natural	Natural	Natural	Natural	Natural
	Observed Contamination							
	Sample Description		Clay	Clay	Clay	Clay	Clay	Clay
	Date	-	18-Jul-13	26-Jul-13	02-Aug-13	12-Aug-13	07-Aug-13	29-Aug-13
	Sample ID	-	**BH33**	**BH02**	**BH03**	**BH43**	**BH08**	**WS01**
	Depth	m	**2**	**2.8**	**4.5**	**7**	**4**	**2.5-3.0**
Screening Level	**Substance**	**Units**						
-								
-	pH		8.3	7.7	7.7	8.4	8.2	8.1
-								
25	Arsenic	ug/l	2.9	1	3.9	0.6	0.9	3.2
7000	Boron	ug/l	260	62	240	70	60	10
0.2	Cadmium	ug/l	0.02	<0.02	0.05	<0.02	<0.02	<0.02
-	Chromium (total)	ug/l	<1	1	4	<1	<1	5
4.7	Chromium (III)	ug/l	<3	<3	4	<3	<3	**5**
0.6	Chromium (VI)	ug/l	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**
5	Copper	ug/l	1.4	2.4	1.1	<0.5	<0.5	1.4
7.2	Lead	ug/l	<0.3	**7.9**	<0.3	<0.3	<0.3	<0.3
0.05	Mercury	ug/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
20	Nickel	ug/l	2	3	1	<1	<1	<1
-	Selenium	ug/l	<0.5	<0.5	1.3	<0.5	<0.5	1.1
40	Zinc	ug/l	<2	7	3	<2	<2	3
-								
-	Sulphate	mg/l	59	66	72	51	53	64
-	Sulphide	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
-	Sulphur (total)	mg/l	21	23	26	19	20	<0.01
-								
7.7	Phenols (total)	ug/l	<0.8	<0.5	<0.6	<0.7	<0.7	<0.5
1	Cyanide (total)	ug/l	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**
1	Cyanide (free)	ug/l	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**
-								
-	Acenaphthene	ug/l	<0.02	<0.02	0.02	<0.02	<0.02	<0.02
-	Acenaphthylene	ug/l	<0.02	<0.02	0.14	<0.02	0.03	<0.02
0.1	Anthracene	ug/l	<0.02	<0.02	0.02	<0.02	<0.02	**0.19**
-	Benzo(a)anthracene	ug/l	<0.02	<0.02	<0.02	<0.02	<0.02	0.62
0.05	Benzo(a)pyrene	ug/l	<0.02	<0.02	<0.02	**<0.10**	**<0.10**	**0.41**
-	Benzo(b)fluoranthene	ug/l	<0.02	<0.02	<0.02	<0.10	<0.10	0.49
-	Benzo(ghi)perylene	ug/l	<0.02	<0.02	<0.02	<0.10	<0.10	0.63
-	Benzo(k)fluoranthene	ug/l	<0.02	<0.02	<0.02	<0.10	<0.10	0.6
-	Chrysene	ug/l	<0.02	<0.02	<0.02	<0.02	<0.02	0.59
-	Dibenzo(ah)anthracene	ug/l	<0.02	<0.02	<0.02	<0.10	<0.10	0.69
0.1	Fluoranthene	ug/l	<0.02	<0.02	0.04	<0.02	<0.02	**0.44**
-	Fluorene	ug/l	<0.02	<0.02	0.04	<0.02	<0.02	0.03
-	Indeno(1,2,3cd)pyrene	ug/l	<0.02	<0.02	<0.02	<0.10	<0.10	0.65
1.2	Naphthalene	ug/l	<0.02	<0.02	0.02	<0.02	<0.02	<0.02
-	Phenanthrene	ug/l	<0.02	<0.02	0.06	<0.02	<0.02	0.21
-	Pyrene	ug/l	<0.02	<0.02	0.03	<0.02	<0.02	0.43
-	Polyaromatic Hydrocarbons (Total)	ug/l	<0.02	<0.02	0.37	<0.10	<0.10	6
-	Sum of 4No. PAHs	ug/l	**N.D.**	**N.D.**	<0.02	<0.10	<0.10	2.4
0.03	benzo(b) and benzo(k)fluoranthene	ug/l	<0.02	<0.02	<0.02	**<0.10**	**<0.10**	**1.1**
0.002	ʒ-cd)pyrene and benzo(ghi)perylene	ug/l	**N.D.**	**N.D.**	**<0.02**	**<0.10**	**<0.10**	**1.3**
-								
-	TPH (C8-C10)	ug/l	<20	<20	<20	<20	<20	<20
-	TPH (C10-C12)	ug/l	<20	<20	<20	<20	<20	<20
-	TPH (C12-C16)	ug/l	<20	<20	<20	<20	<20	<20
-	TPH (C16-C21)	ug/l	<20	<20	<20	<20	<20	<20
-	TPH (C21-C35)	ug/l	<20	<20	<20	<20	<20	<20
-	TPH (C35-C40)	ug/l	<20	<20	<20	<20	<20	<20
-	Total TPH (C8-C40)	ug/l	<20	<20	<20	<20	<20	<20

Substance		Screening Criteria		Number of Analyses	Reported Minimum Value	Reported Maximum Value	Statistical Mean	Standard Deviation	Number of Exceedances
		-	-						-
pH		-	-	6	7.7	8.4	8.07	0.3	-
		-	-						-
Arsenic	ug/l	25	WFD 2010 Part 4 (Coastal Waters)	6	0.6	3.9	2.08	1.41	0
Boron	ug/l	7000	UK Estuary & Coastal EQS 2004	6	10	260	117	105	0
Cadmium	ug/l	0.2	WFD 2010 Part 5 (Coastal Waters)	6	<0.02	0.05	0.025	0.012	0
Chromium (total)	ug/l	-	-	6	<1	5	2.17	1.83	-
Chromium (III)	ug/l	4.7	WFD 2010 Part 4 (Freshwater)	6	<3	5	3.5	0.84	1
Chromium (VI)	ug/l	0.6	WFD 2010 Part 4 (Coastal Waters)	6	<3	<3	3	0	6
Copper	ug/l	5	WFD 2010 Part 4 (Coastal Waters)	6	<0.5	2.4	1.22	0.71	0
Lead	ug/l	7.2	WFD 2010 Part 5 (Coastal Waters)	6	<0.3	7.9	1.57	3.1	1
Mercury	ug/l	0.05	WFD 2010 Part 5 (Coastal Waters)	6	<0.05	<0.05	0.05	7.60E-18	0
Nickel	ug/l	20	WFD 2010 Part 5 (Coastal Waters)	6	<1	3	1.5	0.84	0
Selenium	ug/l	-	-	6	<0.5	1.3	0.73	0.37	-
Zinc	ug/l	40	WFD 2010 Part 4 (Coastal Waters)	6	<2	7	3.17	1.94	0
		-	-						-
Sulphate	mg/l	-	-	6	51	72	60.8	8.04	-
Sulphide	mg/l	-	-	6	<0.05	<0.05	0.05	7.60E-18	-
Sulphur (total)	mg/l	-	-	6	<0.01	26	18.2	9.24	-
		-	-						-
Phenols (total)	ug/l	7.7	WFD 2010 Part 4 (Coastal Waters)	6	<0.5	<0.8	0.63	0.12	0
Cyanide (total)	ug/l	1	WFD 2010 Part 4 (Coastal Waters)	6	<10	<10	10	0	6
Cyanide (free)	ug/l	1	WFD 2010 Part 4 (Coastal Waters)	6	<10	<10	10	0	6
		-	-						-
Acenaphthene	ug/l	-	-	6	<0.02	0.02	0.02	0	-
Acenaphthylene	ug/l	-	-	6	<0.02	0.14	0.042	0.048	-
Anthracene	ug/l	0.1	WFD 2010 Part 5 (Coastal Waters)	6	<0.02	0.19	0.048	0.069	1
Benzo(a)anthracene	ug/l	-	-	6	<0.02	0.62	0.12	0.24	-
Benzo(a)pyrene	ug/l	0.05	WFD 2010 Part 5 (Coastal Waters)	6	<0.02	0.41	0.11	0.15	3
Benzo(b)fluoranthene	ug/l	-	-	6	<0.02	0.49	0.13	0.18	-
Benzo(ghi)perylene	ug/l	-	-	6	<0.02	0.63	0.15	0.24	-
Benzo(k)fluoranthene	ug/l	-	-	6	<0.02	0.6	0.14	0.23	-
Chrysene	ug/l	-	-	6	<0.02	0.59	0.12	0.23	-
Dibenzo(ah)anthracene	ug/l	-	-	6	<0.02	0.69	0.16	0.26	-
Fluoranthene	ug/l	0.1	WFD 2010 Part 5 (Coastal Waters)	6	<0.02	0.44	0.093	0.17	1
Fluorene	ug/l	-	-	6	<0.02	0.04	0.025	0.0084	-
Indeno(1,2,3cd)pyrene	ug/l	-	-	6	<0.02	0.65	0.15	0.25	-
Naphthalene	ug/l	1.2	WFD 2010 Part 5 (Coastal Waters)	6	<0.02	0.02	0.02	0	0
Phenanthrene	ug/l	-	-	6	<0.02	0.21	0.058	0.076	-
Pyrene	ug/l	-	-	6	<0.02	0.43	0.09	0.17	-
Polyaromatic Hydrocarbons (Total)	ug/l	-	-	6	<0.02	6	1.1	2.4	-
Sum of 4No. PAHs	ug/l	-	-	4	<0.02	2.4	0.66	1.16	-
Sum of benzo(b) and benzo(k)fluoranthene	ug/l	0.03	WFD 2010 Part 5 (Coastal Waters)	6	<0.02	1.1	0.23	0.43	3
Sum of indeno(123-cd)pyrene and benzo(ghi)perylene	ug/l	0.002	WFD 2010 Part 5 (Coastal Waters)	4	<0.02	1.3	0.38	0.61	4
		-	-						-
TPH (C8-C10)	ug/l	-	-	6	<20	<20	20	0	-
TPH (C10-C12)	ug/l	-	-	6	<20	<20	20	0	-
TPH (C12-C16)	ug/l	-	-	6	<20	<20	20	0	-
TPH (C16-C21)	ug/l	-	-	6	<20	<20	20	0	-
TPH (C21-C35)	ug/l	-	-	6	<20	<20	20	0	-
TPH (C35-C40)	ug/l	-	-	6	<20	<20	20	0	-
Total TPH (C8-C40)	ug/l	-	-	6	<20	<20	20	0	-
		-	-						-
Benzene	ug/l	8	WFD 2010 Part 5 (Coastal Waters)						
Ethylbenzene	ug/l	20	UK Estuary & Coastal EQS 2004						
Toluene	ug/l	40	WFD 2010 Part 4 (Coastal Waters)						
Meta/Para-Xylene	ug/l	-	-						-
Ortho-Xylene	ug/l	-	-						-
Methyl tert-Butyl Ether	ug/l	-	-						-
Sum of Xylenes	ug/l	30	WFD 2010 Part 6 (Coastal Waters)						
		-	-						-

Appendix H3a: Groundwater (controlled waters – DWS)

Multiplier:	1	x"<"	A63 Castle Street - GROUNDWATER SUPERFICIAL DWS																												
	Strata			Till	Till	Clay	Clay	Clay	Till	Till	Till	Alluvium	Alluvium	Alluvium	Clay	Clay	Alluvium	Alluvium	Alluvium	Alluvium	Alluvium	Alluvium	Clay	Clay	Clay	Clay	Clay	Clay	Till	Till	Till	Alluvium
	Observed Contamination																														
	Sample Description			ROUND 1	ROUND 2	ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 2	ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 2	ROUND 3	ROUND 1
	Date			03/10/2013	24/10/2013	03/10/2013	24/10/2013	17/12/2013	01/10/2013	21/10/2013	16/12/2013	03/10/2013	24/10/2013	17/12/2013	03/10/2013	24/10/2013	01/10/2013	21/10/2013	17/12/2013	01/10/2013	21/10/2013	16/12/2013	01/10/2013	21/10/2013	16/12/2013	03/10/2013	25/10/2013	18/12/2013	03/10/2013	25/10/2013	18/12/2013	01/10/2013
	Sample ID			BH01	BH01	BH03	BH03	BH03	BH04	BH04	BH04	BH05	BH05	BH05	BH06	BH06	BH07	BH07	BH07	BH12	BH12	BH12	BH13	BH13	BH13	BH14	BH14	BH14	BH15	BH15	BH15	BH19A
	Depth	m																													
Screening Level	Substance	Units																													
-																															
6.5-10	pH		7.1	7.1	7.1	6.9	7.1	7.4	7.2	6.8	7.2	7.2	7.4	7.2	6.8	7.6	7.5	7.4	7.9	8	7.7	7.4	7	6.7	6.9	7	6.9	7.3	7	6.8	8
-																															
10	Arsenic	ug/l	**52**	**160**	**69**	**200**	**40**	**48**	**66**	**58**	**66**	**140**	**43**	**70**	**170**	**79**	**30**	**18**	**68**	**18**	**31**	**42**	**52**	**64**	**55**	1.1	**30**	**66**	1.2	**36**	**53**
1000	Boron	ug/l	**1400**	**1600**	**1900**	**1600**	**1800**	460	530	480	**1300**	**1400**	**1500**	**1500**	**1100**	**1800**	**1600**	820	**1900**	**1300**	**1300**	330	250	250	390	51	700	**1100**	48	680	**1600**
5	Cadmium	ug/l	0.05	0.03	0.06	0.07	0.02	0.03	<0.02	<0.02	0.04	0.04	<0.02	0.04	0.04	0.03	<0.02	<0.02	0.02	<0.02	<0.02	0.18	<0.02	<0.02	0.04	0.03	0.41	0.03	0.02	0.19	<0.02
50	Chromium (total)	ug/l	47	19	15	12	2	29	6	23	**56**	19	16	23	14	**61**	7	27	17	5	38	**54**	7	37	44	6	2	**63**	3	3	**91**
-	Chromium (III)	ug/l	47	19	15	12	<3	29	6	23	56	19	16	19	14	61	7	27	17	5	38	51	7	37	44	6	<3	63	3	3	91
-	Chromium (VI)	ug/l	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	4	<3	<3	<3	<3	<3	<3	<3	3	<3	<3	<3	<3	<3	<3	<3	<3	<3
2000	Copper	ug/l	93	300	290	700	370	**3900**	680	200	200	220	100	390	390	120	17	4	**6500**	4.4	18	**2600**	55	160	320	<0.5	290	180	0.8	290	68
10	Lead	ug/l	0.7	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.5	<0.3	<0.3	<0.3	0.4	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
1	Mercury	ug/l	0.07	<0.05	<0.05	<0.05	0.2	<0.05	<0.05	<0.05	<0.05	<0.05	0.41	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	0.05	0.07	<0.05
20	Nickel	ug/l	**22**	20	**36**	**32**	15	**27**	17	**21**	13	13	14	**43**	**35**	8	9	12	**55**	9	10	**24**	13	18	**41**	20	**26**	**27**	**49**	**23**	4
10	Selenium	ug/l	<0.5	**15**	<0.5	<0.5	<0.5	<0.5	**86**	<0.5	<0.5	**37**	**36**	<0.5	<0.5	**23**	**25**	6.3	<0.5	5.4	7.2	<0.5	**80**	<0.5	1.3	3.7	<0.5	**34**	3.7	<0.5	**25**
5000	Zinc	ug/l	4	6	7	10	3	<2	3	5	4	20	4	6	7	<2	<2	3	3	<2	8	35	3	10	10	17	15	7	20	7	<2
-																															
250000	Calcium	ug/l	160000	110000	**300000**	**350000**	**340000**	**290000**	250000	**260000**	100000	84000	70000	**340000**	**540000**	56000	70000	130000	**330000**	55000	56000	240000	230000	210000	**370000**	140000	**300000**	**260000**	130000	**420000**	57000
-	Magnesium	ug/l	310000	280000	510000	540000	520000	270000	330000	350000	270000	240000	170000	460000	480000	120000	120000	140000	570000	68000	74000	230000	270000	270000	250000	7700	290000	220000	7900	300000	120000
-	Potassium	ug/l	90000	93000	200000	180000	180000	110000	86000	80000	97000	88000	79000	140000	92000	89000	96000	79000	230000	93000	120000	74000	75000	51000	110000	3600	90000	72000	3900	99000	91000
-	Sodium	ug/l	2700000	2800000	3600000	4000000	3700000	2600000	3500000	4000000	2500000	2600000	1900000	3300000	3200000	1200000	1100000	350000	4000000	310000	410000	2700000	3200000	3700000	2400000	30000	2700000	2200000	34000	2700000	1100000
200	Iron (dissolved)	ug/l	**260**	**300**	**240**	**210**	**300**	**1400**	**11000**	81	**3300**	**390**	**390**	**970**	200	**2000**	59	63	**280**	<10	56	**230**	<10	83	**720**	<10	**270**	**430**	<10	**280**	**650**
200	Iron (total)	ug/l	**48000**	**22000**	**47000**	**63000**	**45000**	**8500**	**130000**	**84000**	**140000**	**88000**	**180000**	**250000**	**160000**	**140000**	**50000**	**160000**	**4600**	**99000**	**17000**	**13000**	**13000**	**14000**	**560000**	**1500**	**190000**	**67000**	**2200**	**110000**	**120000**
50	Manganese (dissolved)	ug/l	**1800**	**1400**	**1300**	**1200**	**920**	**3000**	**2000**	**2900**	**790**	**860**	**320**	**920**	**2600**	**900**	**1100**	**730**	**420**	**460**	**570**	**1700**	**890**	**1600**	**1600**	18	**1200**	**820**	20	**670**	**320**
50	Manganese (total)	ug/l	**5200**	**2000**	**2800**	**3900**	**1600**	**3000**	**20000**	**16000**	**3400**	**2500**	**3700**	**9300**	**17000**	**10000**	**30000**	**17000**	**480**	**6100**	**1200**	**1800**	**970**	**2000**	**22000**	**55**	**33000**	**2400**	**90**	**2700**	**8500**
-																															
50	Nitrate	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	30	<0.5	<0.5	37	<0.5	<0.5
0.5	Nitrite	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.2	<0.1	<0.1	0.2	<0.1	<0.1	0.2	<0.1	<0.1	0.1	0.4	<0.1	<0.1	0.2	<0.1	0.2
-	TON	mg/l	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.3	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	6.9	<0.1	<0.1	8.4	<0.1	<0.1
250	Sulphate	mg/l	99	45	**1200**	**850**	**1100**	100	35	100	4.8	23	<0.5	**1000**	**550**	<0.5	2	**340**	**1500**	170	**260**	100	6.9	110	190	51	110	76	67	57	35
-	Sulphide	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
-	Sulphur	mg/l	25	14	410	380	410	47	120	76	4.1	5.5	<0.01	350	280	2.1	9.1	130	440	84	110	44	19	51	80	22	<0.01	23	22	<0.01	15
250	Chloride	mg/l	**6900**	**3700**	**9200**	**6500**	**8600**	**6800**	**5300**	**6900**	**6200**	**3300**	**3200**	**8100**	**5000**	**2300**	**1700**	**720**	**9800**	170	**290**	**6500**	**4600**	**6700**	**6600**	45	**5900**	**5200**	51	**6500**	**1300**
0.39	Ammoniacal Nitrogen as N	mg/l	**19**	**13**	**2.8**	**1.5**	**3.3**	**13**	**7.4**	**15**	**33**	**15**	**19**	**3.8**	**3.3**	**18**	**15**	**8.8**	**2**	**9.6**	**14**	**8.7**	**6.5**	**9**	**22**	0.12	**27**	**22**	0.028	**19**	**16**
0.5	Ammoniacal Nitrogen as NH4	mg/l	**25**	**16**	**3.6**	**1.9**	**4.2**	**16**	**9.6**	**19**	**42**	**20**	**24**	**4.8**	**4.3**	**23**	**19**	**11**	**2.5**	**12**	**18**	**11**	**8.3**	**12**	**29**	0.16	**35**	**29**	0.04	**25**	**21**
-	Total Suspended Solids	mg/l	87	2200	<10	5600	280	160	61000	7000	730	3300	2700	150	12000	2200	80000	14000	150	4700	330	300	77	470	14000	35	7900	36	53	6400	430
2500	Electrical Conductivity	uS/cm	**20000**	**17000**	**25000**	**25000**	**22000**	**20000**	**18000**	**22000**	**19000**	**16000**	**11000**	**23000**	**22000**	**8500**	**6900**	**3900**	**27000**	2300	**2900**	**19000**	**17000**	**20000**	**19000**	850	**16000**	**16000**	870	**17000**	**8700**
-	Total Alkalinity as CaCO3	mg/l																													
-																															
0.5	Phenols (total)	ug/l	<0.5	**0.9**	<0.5	**0.7**	<0.5	<0.5	**2.9**	<0.5	**0.8**	**0.8**	<0.5	<0.5	**0.6**	<0.5	**1.5**	<0.5	<0.5	<0.5	<0.5	<0.5	**0.7**	<0.5	<0.5	**3**	<0.5	<0.5	**9.4**	<0.5	<0.5
50	Cyanide (total)	ug/l	14	<10	26	<10	<10	<10	<10	13	35	<10	<10	22	<10	<10	<10	<10	<10	<10	<10	15	<10	14	15	<10	<10	10	<10	<10	<10
50	Cyanide (free)	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
-																															
-	Acenaphthene	ug/l	0.03	<0.01	0.02	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	0.09	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.07	<0.01	0.01	0.02	<0.01	<0.01	<0.01
-	Acenaphthylene	ug/l	0.11	<0.01	0.08	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01
-	Anthracene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.04	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.15	0.15	<0.01	<0.01	<0.01	0.03	<0.01	<0.01
-	Benzo(a)anthracene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.08	0.18	<0.01	<0.01	<0.01	0.03	<0.01	<0.01
0.01	Benzo(a)pyrene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**<0.10**	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**<0.10**	<0.01	<0.01	**<0.10**	0.01	<0.01	**<0.10**	**0.06**	**0.18**	<0.01	<0.01	<0.01	**0.02**	<0.01	<0.01
-	Benzo(b)fluoranthene	ug/l	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	0.01	<0.01	0.02	<0.01	<0.10	0.01	<0.01	<0.10	<0.01	<0.01	<0.10	0.11	0.25	<0.01	<0.01	<0.01	0.01	<0.01	<0.01
-	Benzo(ghi)perylene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.10	<0.01	<0.01	<0.10	<0.01	<0.01	<0.10	0.02	0.16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
-	Benzo(k)fluoranthene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	0.01	<0.01	<0.10	<0.01	<0.01	<0.10	0.11	0.13	<0.01	<0.01	<0.01	0.01	<0.01	<0.01
-	Chrysene	ug/l	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.04	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	0.32	<0.01	<0.01	<0.01	0.03	<0.01	<0.01
-	Dibenzo(ah)anthracene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.10	<0.01	<0.01	<0.10	<0.01	<0.01	<0.10	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
-	Fluoranthene	ug/l	<0.01	0.02	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.08	<0.01	0.03	0.09	0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.19	0.36	<0.01	0.02	<0.01	0.1	<0.01	<0.01
-	Fluorene	ug/l	0.03	<0.01	0.02	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	0.02	0.01	<0.01	0.04	0.09	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.12	0.15	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
-	Indeno(1,2,3cd)pyrene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.10	0.01	<0.01	<0.10	<0.01	<0.01	<0.10	0.03	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
-	Naphthalene	ug/l	4.7	0.07	3.6	<0.01	<0.01	0.25	0.04	0.02	0.48	0.34	<0.01	0.63	0.04	0.51	0.09	0.04	0.28	0.03	0.03	0.23	0.11	0.2	0.45	0.03	<0.01	0.49	0.03	<0.01	0.14
-	Phenanthrene	ug/l	0.02	0.02	0.02	<0.01	0.02	<0.01	0.02	<0.01	<0.01	0.01	0.06	0.03	0.07	0.11	0.08	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.52	0.63	<0.01	0.03	0.01	0.06	<0.01	<0.01
-	Pyrene	ug/l	<0.01	0.02	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	0.05	0.07	0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.13	0.33	<0.01	0.02	<0.01	0.07	<0.01	<0.01
-	Polyaromatic Hydrocarbons (Total)	ug/l	4.9	0.15	3.7	<0.01	0.04	0.25	0.21	0.06	0.48	0.35	0.29	0.69	0.25	0.97	0.52	0.14	0.28	<0.10	0.04	0.23	0.11	1.9	3.5	0.03	0.08	0.57	0.39	<0.01	0.14
0.1	Sum of 4No. PAHs	ug/l	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	**<0.4**	<0.06	<0.04	<0.04	<0.04	<0.04	<0.05	**<0.22**	**<0.4**	<0.04	<0.04	**<0.4**	<0.04	<0.04	**<0.4**	**0.27**	**0.59**	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
-	Sum of benzo(b) and benzo(k)fluoranthene	ug/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.2	0.02	<0.02	<0.2	<0.02	<0.02	<0.2	0.22	0.38	<0.02	<0.02	<0.02	0.02	<0.02	<0.02
-	Sum of indeno(123cd)pyrene and benzo(ghi)perylene	ug/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.2	<0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.2	<0.2	<0.02	<0.02	<0.2	<0.02	<0.02	<0.2	0.05	0.21	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
-		ug/l																													
10	TPH (C8-C10)	ug/l	<10		<10	<10	<10	<10	<10	<10	<10			<10	**20**	<10			<10	<10	<10	<10	<10	<10	**<20**		<10	<10			<10
10	TPH (C10-C12)	ug/l	<10		<10	<10	<10	<10	<10	<10	<10			<10	**47**	<10			<10	<10	<10	<10	<10	<10	**<20**		<10	<10			<10
10	TPH (C12-C16)	ug/l	**280**		<10	**49**	<10	<10	<10	**77**	<10			<10	<10	**15**			<10	**11**	<10	<10	<10	<10	**<20**		<10	<10			<10
10	TPH (C16-C21)	ug/l	**36**		<10	**130**	<10	<10	**25**	**230**	<10			<10	<10	**45**			<10	**42**	<10	<10	**15**	<10	**26**		<10	<10			10
10	TPH (C21-C35)	ug/l	**46**		<10	**90**	<10	<10	**34**	**14**	<10			<10	<10	**20**			<10	**51**	<10	<10	10	<10	**230**		<10	**150**			**23**
10	TPH (C35-C40)	ug/l	<10		<10	**13**	<10	<10	<10	<10	<10			<10	<10	<10			<10	<10	<10	<10	<10	<10	**27**		<10	**12**			<10
-	Total TPH (C8-C40)	ug/l	370		<10	280	<10	<10	50	320	<10			<10	70	90			<10	100	<10	<10	30	<10	290		<10	160			30
-																															
10	TPH Aliphatics >C5-C6	ug/l		<10								<10	<10				<10	<10											<10	<10	
10	TPH Aliphatics >C6-C8	ug/l		<10								<10	<10				<10	<10											<10	<10	
10	TPH Aliphatics >C8-C10	ug/l		<10								<10	<10				<10	<10											<10	<10	
10	TPH Aliphatics >C10-C12	ug/l		<10								<10	<10				10	<10								**<20**			**<20**	<10	
10	TPH Aliphatics >C12-C16	ug/l		<10								10	<10				**30**	<10								**<20**			**46**	<10	
10	TPH Aliphatics >C16-C21	ug/l		<10								**68**	<10				**60**	<10								**<20**			**140**	<10	
10	TPH Aliphatics >C21-C35	ug/l		**14**								**400**	<10				**110**	<10								**45**			**100**	<10	
10	TPH Aliphatics >C35-C44	ug/l		<10								**70**	<10				<10	<10								**<20**			**<20**	<10	
-	TPH Total Aliphatics (C5-C44)	ug/l		10								550	**ND**				210	**ND**								40			290	**ND**	
-																															
10	TPH Aromatics >C6-C7	ug/l		<10								<10	<10				<10	<10								<10			<10	<10	
10	TPH Aromatics >C7-C8	ug/l		<10								<10	<10				<10	<10								<10			<10	<10	
10	TPH Aromatics >C8-C10	ug/l		<10								<10	<10				<10	<10								<10			<10	<10	
10	TPH Aromatics >C10-C12	ug/l		<10								<10	<10				<10	<10								**66**			**<20**	<10	
10	TPH Aromatics >C12-C16	ug/l		<10								**47**	<10				**30**	<10								**<20**			**120**	<10	
10	TPH Aromatics >C16-C21	ug/l		<10								**230**	<10				**40**	**19**								**<20**			**450**	<10	
10	TPH Aromatics >C21-C35	ug/l		**13**								**1200**	<10				**20**	**11**								**<20**			**3300**	<10	
10	TPH Aromatics >C35-C44	ug/l		<10								**170**	<10				<10	<10								**<20**			**240**	<10	
-	TPH Total Aromatics (C6-C44)	ug/l		10								1700	**ND**				90	30								70			4100	**ND**	
-																															
-	TPH Total (Aliphatics and Aromatics)	ug/l		20								2200	**ND**				300	30								110			4400	**ND**	
-																															
1	Benzene	ug/l		<1			<1			<1	<1	<1					<1	<1			<1			<1		<1			<1	<1	
300	Ethylbenzene	ug/l		<1			<1			<1	<1	<1					<1	<1			<1			<1		<1			<1	<1	

	Date		03/10/2013	24/10/2013	03/10/2013	24/10/2013	17/12/2013	01/10/2013	21/10/2013	16/12/2013	03/10/2013	24/10/2013	17/12/2013	03/10/2013	24/10/2013	01/10/2013	21/10/2013	17/12/2013	01/10/2013	21/10/2013	16/12/2013	01/10/2013	21/10/2013	16/12/2013	03/10/2013	25/10/2013	18/12/2013	03/10/2013	25/10/2013	18/12/2013	01/10/2013
	Sample ID		BH01	BH01	BH03	BH03	BH03	BH04	BH04	BH04	BH05	BH05	BH05	BH06	BH06	BH07	BH07	BH07	BH12	BH12	BH12	BH13	BH13	BH13	BH14	BH14	BH14	BH15	BH15	BH15	BH19A
	Depth	m																													
700	Toluene	ug/l		<1			<1			<1		<1	<1				<1	<1			<1			<1		<1			<1	<1	
-	Meta/Para-Xylene	ug/l		<1			<1			<1		<1	<1				<1	<1			<1			<1		<1			<1	<1	
-	Ortho-Xylene	ug/l		<1			<1			<1		<1	<1				<1	<1			<1			<1		<1			<1	<1	
-	Methyl tert-Butyl Ether	ug/l		<1			<1			<1		<1	<1				<1	<1			<1			<1		40			120	<1	
-	Sum of Xylenes	ug/l		<2			<2			<2		<2	<2				<2	<2			<2			<2		<2			<2	<2	
-		ug/l																													
-	1,1,1,2-Tetrachloroethane	ug/l		<1								<1					<1									<1			<1		
-	1,1,1-Trichloroethane	ug/l		<1								<1					<1									<1			<1		
-	1,1,2,2-Tetrachloroethane	ug/l		<1								<1					<1									<1			<1		
-	1,1,2-Trichloroethane	ug/l		<1								<1					<1									<1			<1		
-	1,1,2-Trichloroethylene (TCE)	ug/l		<1								<1					<1									<1			<1		
-	1,1-Dichloroethane	ug/l		<1								<1					<1									<1			<1		
-	1,1-Dichloroethylene	ug/l		<1								<1					<1									<1			<1		
-	1,1-Dichloro-1-propene	ug/l		<1								<1					<1									<1			<1		
-	1,2,3-Trichloropropane	ug/l		<1								<1					<1									<1			<1		
-	1,2,4-Trimethylbenzene	ug/l		<1								<1					<1									<1			<1		
0.4	1,2-Dibromoethane	ug/l		**<1**								**<1**					**<1**									**<1**			**<1**		
1000	1,2-Dichlorobenzene	ug/l		<1								<1					<1									<1			<1		
3	1,2-Dichloroethane	ug/l		<1								<1					<1									<1			<1		
0.1	1,2-Dichloropropane	ug/l		**<1**								**<1**					**<1**									**<1**			**<1**		
-	1,3,5-Trimethylbenzene	ug/l		<1								<1					<1									<1			<1		
-	1,3-Dichlorobenzene	ug/l		<1								<1					<1									<1			<1		
-	1,3-Dichloropropane	ug/l		<1								<1					<1									<1			<1		
80	1,4-Dichlorobenzene	ug/l		<1								<1					<1									<1			<1		
-	2,2-Dichloropropane	ug/l		<1								<1					<1									<1			<1		
-	2-Chlorotoluene	ug/l		<1								<1					<1									<1			<1		
-	4-Chlorotoluene	ug/l		<1								<1					<1									<1			<1		
1	Benzene	ug/l		<1								<1					<1									<1			<1		
-	Bromobenzene	ug/l		<1								<1					<1									<1			<1		
-	Bromochloromethane	ug/l		<1								<1					<1									<1			<1		
60	Bromodichloromethane	ug/l		<1								<1					<1									<1			<1		
100	Bromoform	ug/l		<1								<1					<1									5			4		
-	Bromomethane	ug/l		<1								<1					<1									<1			<1		
3	Carbon tetrachloride	ug/l		<1								<1					<1									<1			<1		
100	Chlorobenzene	ug/l		<1								<1					<1									<1			<1		
-	Chlorodibromomethane	ug/l		<1								<1					<1									3			3		
-	Chloroethane	ug/l		<1								<1					<1									<1			<1		
300	Chloroform	ug/l		<1								<1					<1									<1			<1		
-	Chloromethane	ug/l		<1								<1					<1									<1			<1		
-	cis-1,2-Dichloroethylene	ug/l		<1								<1					<1									<1			<1		
0.1	cis-1,3-Dichloropropene	ug/l		**<1**								**<1**					**<1**									**<1**			**<1**		
-	Dibromomethane	ug/l		<1								<1					<1									<1			<1		
-	Dichlorodifluoromethane	ug/l		<1								<1					<1									<1			<1		
20	Dichloromethane	ug/l		**<50**								**<50**					**<50**									**<50**			**<50**		
300	Ethylbenzene	ug/l		<1								<1					<1									<1			<1		
-	Isopropylbenzene	ug/l		<1								<1					<1									<1			<1		
-	M/p-Xylene	ug/l		<1								<1					<1									<1			<1		
-	n-Propylbenzene	ug/l		<1								<1					<1									<1			<1		
-	o-Xylene	ug/l		<1								<1					<1									<1			<1		
-	p-Isopropyltoluene	ug/l		<1								<1					<1									<1			<1		
-	Sec-Butylbenzene	ug/l		<1								<1					<1									<1			<1		
20	Styrene	ug/l		<1								<1					<1									<1			<1		
-	Tert-Butylbenzene	ug/l		<1								<1					<1									<1			<1		
-	Tetrachloroethylene (PCE)	ug/l		<1								<1					<1									<1			<1		
700	Toluene	ug/l		<1								<1					<1									<1			<1		
-	trans-1,2-Dichloroethylene	ug/l		<1								<1					<1									<1			<1		
-	trans-1,3-Dichloropropene	ug/l		<1								<1					<1									<1			<1		
-	Trichlorofluoromethane	ug/l		<1								<1					<1									<1			<1		
0.5	Vinyl Chloride	ug/l		<0.5								<0.5					<0.5									<0.5			<0.5		
10	Sum of TCE and PCE	ug/l		<2								<2					<2									<2			<2		
-																															
-	1,2,4-Trichlorobenzene	ug/l		<1								<1					<1									<1			<1		
1000	1,2-Dichlorobenzene	ug/l		<1								<1					<1									<1			<1		
-	1,3-Dichlorobenzene	ug/l		<1								<1					<1									<1			<1		
300	1,4-Dichlorobenzene	ug/l		<1								<1					<1									<1			<1		
-	2,4,5-Trichlorophenol	ug/l		<1								<1					<1									<1			<1		
200	2,4,6-Trichlorophenol	ug/l		<1								<1					<1									<1			<1		
-	2,4-Dichlorophenol	ug/l		<1								<1					<1									<1			<1		
-	2,4,-Dimethylphenol	ug/l		<1								<1					<1									<1			<1		
-	2,4,-Dinitrophenol	ug/l		<5								<5					<5									<5			<5		
-	2,4-Dinitrotoluene	ug/l		<1								<1					<1									<1			<1		
-	2,6-Dinitrotoluene	ug/l		<1								<1					<1									<1			<1		
-	2-Chloronaphthalene	ug/l		<1								<1					<1									<1			<1		
-	2-Chlorophenol	ug/l		<1								<1					<1									<1			<1		
-	2-Methylphenol	ug/l		<1								<1					<1									<1			<1		
-	2-Methyl naphthalene	ug/l		<1								<1					<1									<1			<1		
-	2-Nitroaniline	ug/l		<1								<1					<1									<1			<1		
-	2-Nitrophenol	ug/l		<1								<1					<1									<1			<1		
-	3-Nitroaniline	ug/l		<1								<1					<1									<1			<1		
-	3/4-Methylphenol	ug/l		<1								<1					<1									<1			<1		
-	4-Bromophenyl phenyl ether	ug/l		<1								<1					<1									<1			<1		
-	4-Chloro, 3-methylphenol	ug/l		<1								<1					<1									<1			<1		
-	4-Chloroaniline	ug/l		<1								<1					<1									<1			<1		
-	4-Chlorophenyl phenylether	ug/l		<1								<1					<1									<1			<1		
-	4-Nitroaniline	ug/l		<1								<1					<1									<1			<1		
-	4-Nitrophenol	ug/l		<1								<1					<5									<1			<1		
-	Acenaphthene	ug/l		<1								<1					<1									<1			<1		
-	Acenaphthylene	ug/l		<1								<1					<1									<1			<1		
-	Anthracene	ug/l		<1								<1					<1									<1			<1		
-	Azobenzene	ug/l		<1								<1					<1									<1			<1		
-	Benzo(a)anthracene	ug/l		<1								<1					<1									<1			<1		
0.01	Benzo(a)pyrene	ug/l		**<1**								**<1**					**<1**									**<1**			**<1**		
-	Benzo(b/k)fluoranthene	ug/l		<1								<1					<1									<1			<1		
-	Benzo(ghi)perylene	ug/l		<1								<1					<1									<1			<1		
-	Bis(2-chloroethoxy) methane	ug/l		<1								<1					<1									<1			<1		
-	Bis(2-chloroethyl)ether	ug/l		<1								<1					<1									<1			<1		
-	Bis(2-chloroisopropyl) ether	ug/l		<1								<1					<1									<1			<1		
-	Bis(2-ethylhexyl) phthalate	ug/l		<1								<1					<1									<1			<1		
-	Butyl benzyl phthalate	ug/l		<1								<1					<1									<1			<1		
-	Carbazole	ug/l		<1								<1					<1									<1			<1		
-	Chrysene	ug/l		<1								<1					<1									<1			<1		
-	Di-n-butyl phthalate	ug/l		<1								<1					<1									<1			<1		
-	Di-n-octyl phthalate	ug/l		<1								<1					<1									<1			<1		
-	Dibenz(ah)anthracene	ug/l		<1								<1					<1									<1			<1		
-	Dibenzofuran	ug/l		<1								<1					<1									<1			<1		
-	Diethyl phthalate	ug/l		<1								<1					<1									<1			<1		
-	Dimethyl phthalate	ug/l		<1								<1					<5									<1			<1		
-	Fluoranthene	ug/l		<1								<1					<1									<1			<1		
-	Fluorene	ug/l		<1								<1					<1									<1			<1		
0.1	Hexachlorobenzene	ug/l		**<1**								**<1**					**<1**									**<1**			**<1**		
0.6	Hexachlorobutadiene	ug/l		**<1**								**<1**					**<5**									**<1**			**<1**		

Grontmij Limited

	Date		03/10/2013	24/10/2013	03/10/2013	24/10/2013	17/12/2013	01/10/2013	21/10/2013	16/12/2013	03/10/2013	24/10/2013	17/12/2013	03/10/2013	24/10/2013	01/10/2013	21/10/2013	17/12/2013	01/10/2013	21/10/2013	16/12/2013	01/10/2013	21/10/2013	16/12/2013	03/10/2013	25/10/2013	18/12/2013	03/10/2013	25/10/2013	18/12/2013	01/10/2013
	Sample ID		BH01	BH01	BH03	BH03	BH03	BH04	BH04	BH04	BH05	BH05	BH05	BH06	BH06	BH07	BH07	BH07	BH12	BH12	BH12	BH13	BH13	BH13	BH14	BH14	BH14	BH15	BH15	BH15	BH19A
	Depth	m																													
-	Hexachlorocyclopentadiene	ug/l		<5								<5					<5									<5			<5		
-	Hexachloroethane	ug/l		<5								<5					<5									<5			<5		
-	Indeno(1,2,3,cd)pyrene	ug/l		<1								<1					<1									<1			<1		
-	Isophorone	ug/l		<1								<1					<1									<1			<1		
-	Naphthalene	ug/l		<1								<1					<1									<1			<1		
-	Nitrobenzene	ug/l		<1								<1					<1									<1			<1		
0.1	Pentachlorophenol	ug/l		**<1**								**<1**					**<5**									**<1**			**<1**		
-	Phenanthrene	ug/l		<1								<1					<1									<1			<1		
0.5	Phenol	ug/l		**<5**								**<5**					**<5**									**<5**			**<5**		
-	Pyrene	ug/l		<1								<1					<1									<1			<1		
-																															
-	PCB 101	ug/l													<0.005		<0.005														
-	PCB 118	ug/l													<0.005		<0.005														
-	PCB 138	ug/l													<0.005		<0.005														
-	PCB 153	ug/l													<0.005		<0.005														
-	PCB 180	ug/l													<0.005		<0.005														
-	PCB 28	ug/l													<0.005		<0.005														
-	PCB 52	ug/l													<0.005		<0.005														
0.5	Sum of PCBs	ug/l													<0.035		<0.035														

1																														
Strata																														
Observed Contamination																														
Sample Description	Alluvium	Clay	Clay	Clay	Alluvium	Alluvium	Alluvium	Till	Till	Till	Till	Alluvium	Alluvium	Alluvium	Alluvium	Alluvium	Alluvium	Alluvium	Till	Till	Alluvium/Peat	Alluvium/Peat	Alluvium	Alluvium	Till	Till	Alluvium	Alluvium	Alluvium	Alluvium	Alluvium
	ROUND 2	ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 2	ROUND 3	PRELIM RD 1	ROUND 1	ROUND 2	ROUND 3	PRELIM RD 1	ROUND 1	ROUND 2	ROUND 3	PRELIM RD 1	ROUND 1	ROUND 2	ROUND 1	ROUND 3	ROUND 1	ROUND 3	ROUND 1	ROUND 1	ROUND 2	ROUND 1	ROUND 2	ROUND 2	ROUND 1	ROUND 2	ROUND 3	ROUND 1
Date	21/10/2013	01/10/2013	21/10/2013	17/12/2013	03/10/2013	21/10/2013	17/12/2013	05/09/2013	02/10/2013	24/10/2013	17/12/2013	05/09/2013	03/10/2013	24/10/2013	18/12/2013	05/09/2013	02/10/2013	24/10/2013	02/10/2013	17/12/2013	04/10/2013	01/01/1900	01/10/2013	21/10/2013	01/10/2013	21/10/2013	04/10/2013	22/10/2013	04/10/2013	22/10/2013	17/12/2013	02/10/2013
Sample ID	BH19A	BH20	BH20	BH20	BH21	BH21	BH21	BH25	BH25	BH25	BH25	BH26	BH26	BH26	BH26	BH27	BH27	BH27	BH28	BH28	BH30	BH30	BH32	BH32	BH34	BH34	)H35 SHALLOW	H35 SHALLOW	BH35 DEEP	BH35 DEEP	BH35 DEEP	BH37
Depth																																
Substance																																
pH	7.8	7.3	7.3	6.9	7	7.8	7.5	6.9	6.9	6.9	7	7.3	6.8	6.6	7.1	7.7	7.5	7.5	6.8	6.8	6.9	6.8	7.9	7.8	7.7	7.3	7.7	7.7	7.8	7.3	7.2	7.7
Arsenic	**24**	**43**	**44**	**67**	**65**	**41**	**39**	**200**	**93**	**63**	**23**	**110**	**65**	**130**	**30**	**62**	**62**	**38**	**47**	**55**	**48**	**60**	**60**	**32**	**34**	**73**	**68**	**22**	**58**	**43**	**56**	**62**
Boron	**1600**	710	750	670	**1900**	1000	**1200**	400	620	550	590	540	300	370	380	700	**1100**	740	470	330	**1400**	**1300**	**1200**	1000	410	**1900**	**1800**	800	860	**1300**	**1300**	**1300**
Cadmium	0.05	0.02	0.07	<0.02	0.05	0.03	<0.02	<0.02	0.04	<0.02	0.04	0.05	0.05	0.07	0.02	<0.02	<0.02	<0.02	0.04	0.04	0.05	<0.02	<0.02	<0.02	0.03	<0.02	0.04	<0.02	0.05	0.09	<0.02	0.04
Chromium (total)	11	42	6	34	16	7	**82**	36	**60**	22	3	34	**67**	35	4	35	41	15	47	42	44	**80**	44	5	35	6	49	4	**66**	9	**56**	**51**
Chromium (III)	11	39	6	34	16	7	82	36	60	22	3	30	67	35	4	35	41	15	47	42	44	80	44	5	35	6	49	4	66	9	56	51
Chromium (VI)	<3	3	<3	<3	<3	<3	<3	<3	<3	<3	<3	4	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Copper	16	1400	110	99	580	17	16	59	**5100**	80	120	16	1500	430	560	15	31	19	120	130	**2900**	490	36	8.6	74	72	64	18	130	82	100	17
Lead	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.4	0.7	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.4	0.8	<0.3	<0.3	0.3	0.4	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.6	0.5	<0.3	0.7
Mercury	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.15	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.14	<0.05	<0.05	<0.05
Nickel	10	19	10	13	**32**	5	8	11	**24**	15	15	10	**36**	**40**	**31**	7	8	13	**38**	**31**	16	13	6	5	20	**56**	9	8	**42**	**22**	18	5
Selenium	**25**	<0.5	**68**	<0.5	<0.5	**12**	**19**	**110**	<0.5	**32**	**24**	**90**	<0.5	<0.5	<0.5	**52**	**14**	7.2	**38**	<0.5	<0.5	<0.5	**13**	**11**	**24**	**120**	**32**	**25**	**60**	**79**	<0.5	**17**
Zinc	5	4	19	7	5	3	5	22	4	3	<2	6	7	6	3	11	<2	3	3	6	7	6	<2	<2	4	3	7	<2	10	30	6	<2
Calcium	47000	**260000**	210000	230000	190000	94000	88000	180000	**270000**	170000	**270000**	170000	**330000**	**360000**	**310000**	91000	87000	81000	**380000**	**300000**	**300000**	250000	100000	90000	150000	220000	61000	62000	84000	160000	160000	87000
Magnesium	110000	260000	290000	300000	490000	83000	99000	260000	320000	130000	190000	120000	290000	350000	340000	76000	99000	93000	320000	340000	240000	320000	110000	100000	110000	550000	110000	100000	150000	310000	360000	110000
Potassium	89000	83000	95000	90000	190000	77000	80000	82000	110000	65000	88000	74000	87000	94000	100000	68000	95000	84000	83000	79000	150000	170000	88000	85000	58000	230000	100000	67000	89000	99000	120000	79000
Sodium	1200000	2200000	2800000	3400000	3500000	610000	940000	2300000	2700000	840000	1700000	1100000	2300000	2900000	2900000	330000	390000	220000	2500000	3200000	2200000	3400000	550000	580000	890000	4200000	1200000	940000	1700000	2800000	3200000	670000
Iron (dissolved)	160	**240**	12	93	**350**	38	150		**24000**	**1200**	**240**		**7300**	**280**	**310**		**940**	**280**	**270**	140	**26000**	**21000**	**300**	33	190	19	**480**	79	**860**	17	180	170
Iron (total)	**35000**	**130000**	**36000**	**59000**	**11000**	**25000**	**24000**		**80000**	**28000**	**160000**		**200000**	**10000**	**260000**		**92000**	**12000**	**58000**	**80000**	**51000**	**45000**	**86000**	**160000**	**27000**	**6400**	**9500**	**210000**	**8900**	**93000**	**27000**	**64000**
Manganese (dissolved)	**360**	**2400**	**1700**	**2600**	**360**	**610**	**750**		**1600**	**2700**	**1900**		**5400**	**5800**	**8500**		**810**	**860**	**2600**	**3500**	**1100**	**2000**	**960**	**610**	**460**	**350**	**420**	**260**	**250**	**560**	**620**	**560**
Manganese (total)	**1800**	**9800**	**2300**	**5400**	**370**	**1300**	**1400**		**2900**	**3100**	**3400**		**11000**	**5800**	**16000**		**4700**	**1200**	**4300**	**5200**	**1600**	**2500**	**4800**	**6600**	**1100**	**360**	**610**	**6000**	**430**	**4100**	**1200**	**3200**
Nitrate	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	17	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrite	<0.1	0.2	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	0.2	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	**0.6**
TON	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2
Sulphate	1.8	**260**	**340**	**490**	**1200**	2.2	25	59	45	210	**400**	100	30	52	<0.5	65	53	<0.5	71	43	<0.5	15	**350**	**300**	**3300**	**1000**	46	<0.5	9.6	<0.5	72	250
Sulphide	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur	31	120	170	200	400	17	11	15	8.5	79	130	36	14	18	<0.01	21	8.9	1.9	22	13	3.7	8.4	140	130	23	450	18	9.6	50	2.9	29	89
Chloride	**1300**	**4000**	**4200**	**5900**	**8800**	**800**	**1300**	**5700**	**6600**	**1300**	**3400**	**2000**	**6600**	**5600**	**6700**	**490**	**990**	170	**6900**	**6500**	**6100**	**6200**	**2200**	**550**	**3300**	**7300**	**2100**	44	**7400**	160	**6200**	**900**
Ammoniacal Nitrogen as N	**12**	**5.9**	**4.9**	**8.7**	**1.9**	**7.4**	**12**	**37**	**34**	**7.7**	**18**	**19**	**50**	**31**	**50**	**7.7**	**14**	**5.5**	**30**	**31**	**31**	**30**	**14**	**8.2**	**9.8**	**1.4**	**18**	**6.7**	**28**	**13**	**17**	**6.9**
Ammoniacal Nitrogen as NH4	**15**	**7.6**	**6.3**	**11**	**2.5**	**9.6**	**16**	**48**	**44**	**9.9**	**23**	**25**	**64**	**40**	**65**	**9.9**	**18**	**7.1**	**39**	**39**	**39**	**39**	**19**	**10**	**13**	**1.8**	**24**	**8.7**	**35**	**17**	**22**	**8.9**
Total Suspended Solids	340	2400	360	3300	24	170	470	14000	19	3500	2100	3900	1400	31	3400	490	97	360	14	4800	14	670	2100	4100	220	35	<10	3600	130	3700	2900	25
Electrical Conductivity	**6900**	**18000**	**11000**	**19000**	**24000**	**4000**	**6500**	**18000**	**19000**	**6500**	**10000**	**8000**	**19000**	**19000**	**17000**	**3200**	**3500**	2200	**19000**	**20000**	**18000**	**20000**	**4900**	**4000**	**7200**	**23000**	**8700**	**5800**	**11000**	**13000**	**19000**	**5300**
Total Alkalinity as CaCO3																																
Phenols (total)	**5.8**	<0.5	<0.5	<0.5	<0.5	**0.8**	**6.8**	<0.5	<0.5	**0.7**	<0.5	<0.5	**2.4**	**0.7**	<0.5	<0.5	<0.5	**0.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2.6**	<0.5
Cyanide (total)	<10	<10	<10	<10	17	<10	<10	<10	<10	<10	<10	<10	48	<10	<10	<10	<10	<10	<10	<10	24	<10	<10	<10	<10	<10	27	<10	**54**	<10	<10	<10
Cyanide (free)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acenaphthene	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	0.03	<0.01	<0.01	0.07	<0.01	<0.01	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.08	<0.01	<0.01	0.02	<0.01	0.02	<0.01	0.03	0.02	<0.01	0.03	<0.01
Acenaphthylene	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.07	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.01
Anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.03	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01
Benzo(a)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.01	<0.01	0.04	<0.01	0.02	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.05**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.05**	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	0.04	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.06	<0.01	0.02	0.01
Benzo(ghi)perylene	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	0.03	0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.06	<0.01	0.01	0.01
Chrysene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.02	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.02	<0.01	0.05	<0.01	0.02	0.01
Dibenzo(ah)anthracene	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01
Fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	0.01	<0.01	0.08	<0.01	<0.01	0.01	0.02	<0.01	<0.01	0.18	<0.01	<0.01	0.02	<0.01	0.03	<0.01	<0.01	<0.01	0.02	<0.01	0.05	<0.01	<0.01	0.01
Fluorene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.02	0.03	<0.01	0.01	<0.01
Indeno(1,2,3cd)pyrene	<0.01	<0.10	<0.01	0.02	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	0.04	<0.01
Naphthalene	0.23	0.31	<0.01	0.04	0.44	0.13	0.14	0.04	0.31	0.04	0.02	0.04	0.48	0.02	0.18	<0.01	0.19	0.01	0.15	0.01	0.32	<0.01	0.2	0.06	0.19	0.07	0.4	0.04	0.03	0.02	0.06	0.35
Phenanthrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	0.02	<0.01	0.1	<0.01	0.01	0.01	0.02	<0.01	0.01	0.02	<0.01	<0.01	0.04	<0.01	0.05	<0.01	<0.01	<0.01	0.02	<0.01	0.04	<0.01	<0.01	0.02
Pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	0.01	<0.01	0.06	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.01	<0.01	<0.01	0.02	<0.01	0.03	<0.01	<0.01	<0.01	0.02	<0.01	0.05	<0.01	<0.01	0.01
Polyaromatic Hydrocarbons (Total)	0.23	0.31	<0.01	0.07	0.49	0.13	0.5	0.04	0.42	0.11	0.39	0.11	0.66	0.04	0.24	<0.01	0.21	0.22	0.15	0.06	0.69	<0.01	0.35	0.08	0.19	0.09	0.56	0.09	0.66	0.02	0.24	0.43
Sum of 4No. PAHs	<0.04	**<0.22**	<0.04	<0.05	<0.04	<0.04	**0.11**	<0.04	<0.05	<0.04	<0.04	**<0.22**	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.06	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.06	<0.04	**0.2**	<0.04	0.1	<0.04
Sum of benzo(b) and benzo(k)fluoranthene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	<0.02	0.12	<0.02	0.03	0.02
Sum of indeno(123cd)pyrene and benzo(ghi)perylene	<0.02	<0.2	<0.02	<0.03	<0.02	<0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.08	<0.02	0.07	<0.02
TPH (C8-C10)		<10		<10	<10		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10		<10			<10
TPH (C10-C12)		**15**		<10	<10		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	**26**		<10	<10	<10	<10	<10		<10			<10
TPH (C12-C16)		**76**		<10	**120**		<10	<10	<10	**20**	<10	<10	<10		**35**	<10	<10	<10	<10	<10	**95**		<10	<10	<10	**58**	<10		**400**			<10
TPH (C16-C21)		**43**		<10	**34**		<10	<10	<10	**38**	<10	<10	**17**		**27**	<10	<10	**22**	<10	<10	**63**		<10	**18**	<10	**11**	**17**		**120**			<10
TPH (C21-C35)		**42**		<10	**13**		<10	<10	<10	**33**	<10	<10	**44**		<10	<10	<10	**27**	<10	<10	**47**		<10	**31**	<10	<10	**76**		**410**			<10
TPH (C35-C40)		<10		<10	<10		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10		**52**			<10
Total TPH (C8-C40)		180		<10	160		<10	<10	<10	90	<10	<10	60		60	<10	<10	50	<10	<10	230		<10	50	<10	70	100		980			<10
TPH Aliphatics >C5-C6	<10		<10		<10								<10								<10						<10		<10	<10		
TPH Aliphatics >C6-C8	<10		<10		<10								<10								<10						<10		<10	<10		
TPH Aliphatics >C8-C10	<10		<10		<10								<10								<10						<10		<10	<10		
TPH Aliphatics >C10-C12	<10		<10		<10								**<50**								<10						<10		<10	<10		
TPH Aliphatics >C12-C16	10		10		10								**<50**								<10						**20**		**50**	**26**		
TPH Aliphatics >C16-C21	10		10		10								**50**								<10						10		**20**	**13**		
TPH Aliphatics >C21-C35	**20**		10		**30**								**110**								**41**						**30**		**20**	**57**		
TPH Aliphatics >C35-C44	<10		<10		<10								**<50**								<10						<10		<10	<10		
TPH Total Aliphatics (C5-C44)	40		30		50								160								40						60		90	100		
TPH Aromatics >C6-C7	<10		<10		<10								<10								<10						<10		<10	<10		
TPH Aromatics >C7-C8	<10		<10		<10								<10								<10						<10		<10	<10		
TPH Aromatics >C8-C10	<10		<10		<10								<10								<10						<10		<10	<10		
TPH Aromatics >C10-C12	<10		<10		<10								**<50**								<10						<10		<10	<10		
TPH Aromatics >C12-C16	<10		10		<10								**100**								<10						**20**		<10	**73**		
TPH Aromatics >C16-C21	10		10		<10								**210**								**25**						**20**		<10	**44**		
TPH Aromatics >C21-C35	<10		<10		<10								**80**								**17**						<10		<10	**18**		
TPH Aromatics >C35-C44	<10		<10		<10								**<50**								<10						<10		<10	<10		
TPH Total Aromatics (C6-C44)	10		20		**N.D.**								390								50						40		**N.D.**	130		
TPH Total (Aliphatics and Aromatics)	50		50		50								550								90						100		90	230		
Benzene	<1		<1		<1						<1		<1							<1	<1						<1		<1	<1		
Ethylbenzene	<1		<1		<1						<1		<1							<1	<1						<1		<1	<1		

Grontmij Limited

Date	21/10/2013	01/10/2013	21/10/2013	17/12/2013	03/10/2013	21/10/2013	17/12/2013	05/09/2013	02/10/2013	24/10/2013	17/12/2013	05/09/2013	03/10/2013	24/10/2013	18/12/2013	05/09/2013	02/10/2013	24/10/2013	02/10/2013	17/12/2013	04/10/2013	01/01/1900	01/10/2013	21/10/2013	01/10/2013	21/10/2013	04/10/2013	22/10/2013	04/10/2013	22/10/2013	17/12/2013	02/10/2013
Sample ID	BH19A	BH20	BH20	BH20	BH21	BH21	BH21	BH25	BH25	BH25	BH25	BH26	BH26	BH26	BH26	BH27	BH27	BH27	BH28	BH28	BH30	BH30	BH32	BH32	BH34	BH34	H35 SHALLOW	H35 SHALLOW	BH35 DEEP	BH35 DEEP	BH35 DEEP	BH37
Depth																																
Toluene	<1		<1			<1					<1			<1						<1		<1						<1		<1	<1	
Meta/Para-Xylene	<1		<1			<1					<1			<1						<1		<1						<1		<1	<1	
Ortho-Xylene	<1		<1			<1					<1			<1						<1		<1						<1		<1	<1	
Methyl tert-Butyl Ether	<1		<1			<1					<1			<1						<1		<1						<1		<1	<1	
Sum of Xylenes	<2		<2			<2					<2			<2						<2		<2						<2		<2	<2	
1,1,1,2-Tetrachloroethane	<1		<1			<1								<1														<1		<1		
1,1,1-Trichloroethane	<1		<1			<1								<1														<1		<1		
1,1,2,2-Tetrachloroethane	<1		<1			<1								<1														<1		<1		
1,1,2-Trichloroethane	<1		<1			<1								<1														<1		<1		
1,1,2-Trichloroethylene (TCE)	<1		<1			<1								<1														<1		<1		
1,1-Dichloroethane	<1		<1			<1								<1														<1		<1		
1,1-Dichloroethylene	<1		<1			<1								<1														<1		<1		
1,1-Dichloro-1-propene	<1		<1			<1								<1														<1		<1		
1,2,3-Trichloropropane	<1		<1			<1								<1														<1		<1		
1,2,4-Trimethylbenzene	<1		<1			<1								<1														<1		<1		
1,2-Dibromoethane	**<1**		**<1**			**<1**								**<1**														**<1**		**<1**		
1,2-Dichlorobenzene	<1		<1			<1								<1														<1		<1		
1,2-Dichloroethane	<1		<1			<1								<1														<1		<1		
1,2-Dichloropropane	**<1**		**<1**			**<1**								**<1**														**<1**		**<1**		
1,3,5-Trimethylbenzene	<1		<1			<1								<1														<1		<1		
1,3-Dichlorobenzene	<1		<1			<1								<1														<1		<1		
1,3-Dichloropropane	<1		<1			<1								<1														<1		<1		
1,4-Dichlorobenzene	<1		<1			<1								<1														<1		<1		
2,2-Dichloropropane	<1		<1			<1								<1														<1		<1		
2-Chlorotoluene	<1		<1			<1								<1														<1		<1		
4-Chlorotoluene	<1		<1			<1								<1														<1		<1		
Benzene	<1		<1			<1								<1														<1		<1		
Bromobenzene	<1		<1			<1								<1														<1		<1		
Bromochloromethane	<1		<1			<1								<1														<1		<1		
Bromodichloromethane	<1		<1			<1								<1														<1		<1		
Bromoform	<1		<1			<1								<1														<1		<1		
Bromomethane	<1		<1			<1								<1														<1		<1		
Carbon tetrachloride	<1		<1			<1								<1														<1		<1		
Chlorobenzene	<1		<1			<1								<1														<1		<1		
Chlorodibromomethane	<1		<1			<1								<1														<1		<1		
Chloroethane	<1		<1			<1								<1														<1		<1		
Chloroform	<1		<1			<1								<1														<1		<1		
Chloromethane	<1		<1			<1								<1														<1		<1		
cis-1,2-Dichloroethylene	<1		<1			<1								<1														<1		<1		
cis-1,3-Dichloropropene	**<1**		**<1**			**<1**								**<1**														**<1**		**<1**		
Dibromomethane	<1		<1			<1								<1														<1		<1		
Dichlorodifluoromethane	<1		<1			<1								<1														<1		<1		
Dichloromethane	**<50**		**<50**			**<50**								**<50**														**<50**		**<50**		
Ethylbenzene	<1		<1			<1								<1														<1		<1		
Isopropylbenzene	<1		<1			<1								<1														<1		<1		
M/p-Xylene	<1		<1			<1								<1														<1		<1		
n-Propylbenzene	<1		<1			<1								<1														<1		<1		
o-Xylene	<1		<1			<1								<1														<1		<1		
p-Isopropyltoluene	<1		<1			<1								<1														<1		<1		
Sec-Butylbenzene	<1		<1			<1								<1														<1		<1		
Styrene	<1		<1			<1								<1														<1		<1		
Tert-Butylbenzene	<1		<1			<1								<1														<1		<1		
Tetrachloroethylene (PCE)	<1		<1			<1								<1														<1		<1		
Toluene	<1		<1			<1								<1														<1		<1		
trans-1,2-Dichloroethylene	<1		<1			<1								<1														<1		<1		
trans-1,3-Dichloropropene	<1		<1			<1								<1														<1		<1		
Trichlorofluoromethane	<1		<1			<1								<1														<1		<1		
Vinyl Chloride	<0.5		<0.5			<0.5								<0.5														<0.5		<0.5		
Sum of TCE and PCE	<2		<2			<2								<2														<2		<2		
1,2,4-Trichlorobenzene	<1		<1			<1								<1														<1		<1		
1,2-Dichlorobenzene	<1		<1			<1								<1														<1		<1		
1,3-Dichlorobenzene	<1		<1			<1								<1														<1		<1		
1,4-Dichlorobenzene	<1		<1			<1								<1														<1		<1		
2,4,5-Trichlorophenol	<1		<1			<1								<1														<1		<1		
2,4,6-Trichlorophenol	<1		<1			<1								<1														<1		<1		
2,4-Dichlorophenol	<1		<1			<1								<1														<1		<1		
2,4,-Dimethylphenol	<1		<1			<1								<1														<1		<1		
2,4,-Dinitrophenol	<5		<5			<5								<5														<5		<5		
2,4-Dinitrotoluene	<1		<1			<1								<1														<1		<1		
2,6-Dinitrotoluene	<1		<1			<1								<1														<1		<1		
2-Chloronaphthalene	<1		<1			<1								<1														<1		<1		
2-Chlorophenol	<1		<1			<1								<1														<1		<1		
2-Methylphenol	<1		<1			<1								<1														<1		<1		
2-Methyl naphthalene	<1		<1			<1								<1														<1		<1		
2-Nitroaniline	<1		<1			<1								<1														<1		<1		
2-Nitrophenol	<1		<1			<1								<1														<1		<1		
3-Nitroaniline	<1		<1			<1								<1														<1		<1		
3/4-Methylphenol	<1		<1			<1								<1														<1		<1		
4-Bromophenyl phenyl ether	<1		<1			<1								<1														<1		<1		
4-Chloro, 3-methylphenol	<1		<1			<1								<1														<1		<1		
4-Chloroaniline	<1		<1			<1								<1														<1		<1		
4-Chlorophenyl phenylether	<1		<1			<1								<1														<1		<1		
4-Nitroaniline	<1		<1			<1								<1														<1		<1		
4-Nitrophenol	<5		<5			<5								<5														<5		<5		
Acenaphthene	<1		<1			<1								<1														<1		<1		
Acenaphthylene	<1		<1			<1								<1														<1		<1		
Anthracene	<1		<1			<1								<1														<1		<1		
Azobenzene	<1		<1			<1								<1														<1		<1		
Benzo(a)anthracene	<1		<1			<1								<1														<1		<1		
Benzo(a)pyrene	**<1**		**<1**			**<1**								**<1**														**<1**		**<1**		
Benzo(b/k)fluoranthene	<1		<1			<1								<1														<1		<1		
Benzo(ghi)perylene	<1		<1			<1								<1														<1		<1		
Bis(2-chloroethoxy) methane	<1		<1			<1								<1														<1		<1		
Bis(2-chloroethyl)ether	<1		<1			<1								<1														<1		<1		
Bis(2-chloroisopropyl) ether	<1		<1			<1								<1														<1		<1		
Bis(2-ethylhexyl) phthalate	<1		<1			<1								<1														<1		<1		
Butyl benzyl phthalate	<1		<1			<1								<1														<1		<1		
Carbazole	<1		<1			<1								<1														<1		<1		
Chrysene	<1		<1			<1								<1														<1		<1		
Di-n-butyl phthalate	<1		<1			<1								<1														<1		<1		
Di-n-octyl phthalate	<1		<1			<1								<1														<1		<1		
Dibenz(ah)anthracene	<1		<1			<1								<1														<1		<1		
Dibenzofuran	<1		<1			<1								<1														<1		<1		
Diethyl phthalate	<1		<1			<1								<1														<1		<1		
Dimethyl phthalate	<5		<5			<5								<5														<5		<5		
Fluoranthene	<1		<1			<1								<1														<1		<1		
Fluorene	<1		<1			<1								<1														<1		<1		
Hexachlorobenzene	**<1**		**<1**			**<1**								**<1**														**<1**		**<1**		
Hexachlorobutadiene	**<5**		**<5**			**<5**								**<1**														**<5**		**<5**		

Date	21/10/2013	01/10/2013	21/10/2013	17/12/2013	03/10/2013	21/10/2013	17/12/2013	05/09/2013	02/10/2013	24/10/2013	17/12/2013	05/09/2013	03/10/2013	24/10/2013	18/12/2013	05/09/2013	02/10/2013	24/10/2013	02/10/2013	17/12/2013	04/10/2013	01/01/1900	01/10/2013	21/10/2013	01/10/2013	21/10/2013	04/10/2013	22/10/2013	04/10/2013	22/10/2013	17/12/2013	02/10/2013
Sample ID	BH19A	BH20	BH20	BH20	BH21	BH21	BH21	BH25	BH25	BH25	BH25	BH26	BH26	BH26	BH26	BH27	BH27	BH27	BH28	BH28	BH30	BH30	BH32	BH32	BH34	BH34	H35 SHALLOW	H35 SHALLOV	BH35 DEEP	BH35 DEEP	BH35 DEEP	BH37
Depth																																
Hexachlorocyclopentadiene	<5		<5			<5								<5														<5		<5		
Hexachloroethane	<5		<5			<5								<1														<5		<5		
Indeno(1,2,3,cd)pyrene	<1		<1			<1								<1														<1		<1		
Isophorone	<1		<1			<1								<1														<1		<1		
Naphthalene	<1		<1			<1								<1														<1		<1		
Nitrobenzene	<1		<1			<1								<1														<1		<1		
Pentachlorophenol	**<5**		**<5**			**<5**								**<1**														**<5**		**<5**		
Phenanthrene	<1		<1			<1								<1														<1		<1		
Phenol	**<5**		**<5**			**<5**								**<5**														**<5**		**<5**		
Pyrene	<1		<1			<1								<1														<1		<1		
PCB 101	<0.005		<0.005			<0.005				<0.005																						
PCB 118	<0.005		<0.005			<0.005				<0.005																						
PCB 138	<0.005		<0.005			<0.005				<0.005																						
PCB 153	<0.005		<0.005			<0.005				<0.005																						
PCB 180	<0.005		<0.005			<0.005				<0.005																						
PCB 28	<0.005		<0.005			<0.005				<0.005																						
PCB 52	<0.005		<0.005			<0.005				<0.005																						
Sum of PCBs	<0.035		<0.035			<0.035				<0.035																						

1																														
Strata																														
Observed Contamination																														
Sample Description	Alluvium	Alluvium	Alluvium	Alluvium	Alluvium	MG	MG	MG	Sand and gravel	Sand and gravel	Sand	Sand	Alluvium	Alluvium	Sand and gravel	Sand and gravel	Sand	Sand	Peat	Peat	Alluvium	Alluvium	Alluvium	Alluvium	Alluvium	Alluvium	Alluvium	MG	MG
	ROUND 2	ROUND 1	ROUND 2	ROUND 1	ROUND 2	ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 2	ROUND 1	ROUND 2	ROUND 1	ROUND 2	ROUND 1	ROUND 2	ROUND 1	ROUND 2	ROUND 1	ROUND 2	ROUND 2	ROUND 3	ROUND 2	ROUND 2	ROUND 3	ROUND 2	ROUND 2	ROUND 2	ROUND 3
Date	22/10/2013	02/10/2013	22/10/2013	02/10/2013	22/10/2013	02/10/2013	24/10/2013	17/12/2013	03/10/2013	23/10/2013	02/10/2013	23/10/2013	02/10/2013	22/10/2013	02/10/2013	24/10/2013	02/10/2013	22/10/2013	03/10/2013	24/10/2013	25/10/2013	18/12/2013	25/10/2013	21/10/2013	17/12/2013	22/10/2013	24/10/2013	24/10/2013	17/12/2013
Sample ID	BH37	BH38	BH38	BH40A	BH40A	BH41A	BH41A	BH41A	BH42	BH42	BH43	BH43	BH44	BH44	BH45	BH45	BH46	BH46	BH47	BH47	WS01	WS01	WS03	WS10A	WS10A	WS13	WS20	SBP02	SBP02
Depth																													
Substance																													
pH	8	7.7	7.9	7.1	7.5	7.5	8.1	7.6	7.1	7.1	7.2	7.7	7.3	7.4	7	6.8	7.4	7.7	7.2	6.9	7.2	7.4	7.4	7.5	7.6	7.6	7.3	7.3	7.5
Arsenic	**18**	**55**	**38**	**18**	**11**	**53**	**130**	**46**	**37**	**17**	**11**	**17**	9.9	**14**	**34**	**64**	**23**	**18**	**130**	**150**	8.7	**45**	**15**	8.7	7.1	**64**	**27**	**13**	**37**
Boron	800	**1400**	**1300**	940	750	**1900**	**1400**	**1400**	**1400**	410	910	760	1000	800	**1400**	**1100**	**1200**	**1100**	**1400**	970	760	680	650	920	**1800**	**1600**	510	520	**1900**
Cadmium	0.04	0.03	<0.02	<0.02	<0.02	0.24	0.18	0.11	0.03	<0.02	<0.02	0.03	<0.02	<0.02	0.03	0.03	<0.02	0.09	0.03	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.03	<0.02
Chromium (total)	4	**57**	5	31	3	11	11	8	33	27	23	30	29	4	34	14	**55**	8	**67**	37	15	9	15	6	23	6	6	4	16
Chromium (III)	4	57	5	31	3	11	11	8	33	27	23	30	29	4	34	14	55	8	67	37	15	9	15	6	23	6	6	4	16
Chromium (VI)	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Copper	14	11	9.9	13	10	150	**4700**	170	170	3.7	7.5	12	7.3	21	45	110	15	22	240	500	0.9	7.1	<0.5	1.5	4.2	9.7	17	12	990
Lead	<0.3	0.7	<0.3	0.6	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.4	<0.3	0.6	<0.3	0.3	<0.3	0.4	<0.3	0.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	1
Mercury	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	**7.2**	**1.4**	<0.05	<0.05	<0.05	<0.05
Nickel	5	7	4	13	7	**25**	18	9	**21**	4	9	9	4	4	14	11	7	12	**23**	18	5	8	6	7	8	6	5	11	17
Selenium	**12**	**17**	**12**	**22**	**18**	<0.5	<0.5	<0.5	**51**	3.1	**12**	**11**	**12**	**13**	**48**	**28**	**29**	**29**	<0.5	<0.5	3.7	2.5	4.1	1.9	3.6	8.2	2.9	10	<0.5
Zinc	10	<2	<2	<2	<2	6	8	9	4	2	<2	6	<2	<2	3	6	<2	8	8	4	<2	<2	<2	<2	6	<2	2	3	24
Calcium	76000	82000	95000	**450000**	**360000**	200000	160000	170000	150000	77000	210000	180000	120000	180000	250000	170000	170000	160000	200000	**290000**	85000	200000	72000	140000	200000	110000	78000	110000	190000
Magnesium	73000	110000	110000	140000	130000	440000	450000	440000	280000	28000	100000	95000	97000	150000	260000	250000	160000	150000	380000	410000	79000	120000	56000	100000	83000	140000	30000	36000	540000
Potassium	88000	110000	130000	170000	140000	200000	180000	180000	120000	48000	120000	120000	88000	120000	160000	130000	130000	120000	130000	120000	91000	85000	69000	96000	110000	100000	79000	50000	220000
Sodium	570000	550000	500000	410000	380000	3000000	3400000	3800000	2000000	140000	290000	280000	300000	310000	1600000	1700000	870000	850000	2900000	3300000	160000	260000	120000	95000	140000	410000	660000	270000	3700000
Iron (dissolved)	13	**220**	88	**9600**	12	**250**	200	97	**240**	42	130	120	190	**6900**	**220**	190	**1100**	34	**4300**	**360**	140	180	130	**2400**	81	**1200**	110	51	48
Iron (total)	**37000**	**28000**	**8000**	**32000**	**38000**	**8600**	**7000**	**26000**	**11000**	**5800**	**78000**	**8700**	**14000**	**21000**	**21000**	**6200**	**52000**	**210000**	**15000**	**16000**	**59000**	**200000**	**420000**	**1200000**	**290000**	**120000**	**32000**	**620000**	**25000**
Manganese (dissolved)	**530**	**930**	**350**	**720**	**600**	**140**	**110**	16	**470**	**440**	**960**	**1400**	**410**	**790**	**670**	**630**	**500**	**390**	**610**	**1100**	**650**	**1100**	**270**	**650**	**540**	**930**	**580**	**930**	**1200**
Manganese (total)	**1700**	**1300**	**440**	**1400**	**740**	**640**	**490**	**1000**	**540**	**460**	**6000**	**1400**	**660**	**920**	**1100**	**620**	**2000**	**6700**	**680**	**1200**	**2300**	**14000**	**14000**	**46000**	**11000**	**4600**	**1600**	**38000**	**2200**
Nitrate	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	6.2	<0.5	1.4	<0.5	<0.5	<0.5	14	<0.5	<0.5	<0.5	0.6	8	<0.5	4.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrite	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	**0.8**	<0.1	0.5	<0.1	**2**	<0.1	<0.1	<0.1	**5.1**	<0.1	**2.4**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TON	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.8	<0.1	1.4	<0.1	0.3	0.2	<0.1	<0.1	3.1	0.7	<0.1	<0.1	0.1	3.3	<0.1	1.6	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
Sulphate	6.7	91	<0.5	**410**	11	**1100**	**1000**	**920**	**510**	64	220	180	93	4.1	**480**	**300**	17	<0.5	<0.5	19	100	**280**	30	18	**750**	<0.5	160	180	**290**
Sulphide	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur	52	29	31	150	120	370	330	360	190	21	83	65	38	43	170	140	5.7	11	2.1	1.5	40	120	13	31	310	8.4	86	92	420
Chloride	40	**900**	33	**1600**	53	**7900**	**7400**	**7000**	**4900**	71	**840**	**680**	**760**	36	**3000**	**2600**	**1900**	63	**7400**	**5100**	220	**700**	130	140	45	33	**550**	230	**550**
Ammoniacal Nitrogen as N	**3.2**	**19**	**13**	**6.7**	**4**	**0.63**	**0.5**	**0.55**	**8.8**	**1.1**	**5.1**	**4.9**	**14**	**8.8**	**10**	**4.7**	**27**	**15**	**44**	**39**	**5.5**	**5.1**	**3.6**	**1.9**	**2**	**11**	**0.4**	**0.67**	**3.1**
Ammoniacal Nitrogen as NH4	**4.1**	**25**	**16**	**8.6**	**5.2**	**0.81**	**0.64**	**0.7**	**11**	**1.4**	**6.6**	**6.4**	**18**	**11**	**13**	**6**	**35**	**19**	**57**	**51**	**7.1**	**6.5**	**4.6**	**2.5**	**2.5**	**14**	**0.51**	**0.86**	**3.9**
Total Suspended Solids	2500	36	34	64	160	24	520	160	130	35	130	85	35	290	26	50	14	750	40	130	2900	26000	17000	37000	2600	8800	1700	11000	41000
Electrical Conductivity	**4000**	**4700**	**4000**	**6600**	**5300**	**21000**	**21000**	**21000**	**15000**	1300	**3500**	**3600**	**3800**	**4000**	**13000**	**12000**	**7500**	**6400**	**21000**	**21000**	2000	**23000**	1500	1700	2100	**3800**	**4100**	2200	**3500**
Total Alkalinity as CaCO3																													
Phenols (total)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.7**	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	**3.1**	<0.5	**0.6**	<0.5	0.5	<0.5	**0.7**	<0.5	<0.5	**<0.7**	**1.2**	<0.5	**1.6**	**0.6**	**0.9**	<0.5
Cyanide (total)	<10	<10	<10	<10	<10	<10	<10	<10	24	<10	<10	<10	<10	<10	<10	<10	<10	<10	29	<10	<10	<10	<10	<10	18	<10	<10	<10	<10
Cyanide (free)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acenaphthene	<0.01	0.01	<0.01	0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.02	0.04	0.04	0.03	0.02	0.08	0.08
Acenaphthylene	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	0.02	<0.01	<0.01	<0.01	0.03	<0.01
Anthracene	<0.01	<0.01	0.01	0.01	<0.01	0.02	0.16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.02	0.04	0.02	0.07	<0.01	0.09	0.04
Benzo(a)anthracene	<0.01	0.01	<0.01	0.01	<0.01	0.05	0.34	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.02	<0.01	0.03	0.08	0.02	0.19	0.1
Benzo(a)pyrene	<0.01	0.01	<0.01	**0.02**	<0.01	**0.04**	**0.33**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.02**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**<0.02**	<0.01	**0.02**	**<0.10**	**0.02**	**0.16**	**0.1**
Benzo(b)fluoranthene	<0.01	0.02	<0.01	0.02	<0.01	0.04	0.3	0.02	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.02	<0.01	0.02	<0.10	0.03	0.21	0.07
Benzo(ghi)perylene	<0.01	0.02	<0.01	0.03	<0.01	0.04	0.18	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	0.03	<0.10	0.02	0.19	<0.01
Benzo(k)fluoranthene	<0.01	0.01	<0.01	0.02	<0.01	0.04	0.27	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	0.02	<0.10	0.02	0.16	0.03
Chrysene	<0.01	0.02	<0.01	0.02	<0.01	0.05	0.32	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	0.03	0.05	0.04	0.21	0.07
Dibenzo(ah)anthracene	<0.01	<0.01	<0.01	0.03	<0.01	0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.10	0.01	0.24	<0.01
Fluoranthene	<0.01	0.01	0.06	0.01	<0.01	0.08	0.71	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.03	0.04	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.02	<0.01	0.06	0.2	0.03	0.18	0.19
Fluorene	<0.01	0.01	<0.01	0.01	<0.01	0.01	0.07	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.02	0.02	<0.01	0.04	<0.01	0.07	0.04
Indeno(1,2,3cd)pyrene	<0.01	0.02	<0.01	0.03	<0.01	0.04	0.19	0.02	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	0.05	<0.10	0.01	0.21	<0.01
Naphthalene	<0.01	0.21	0.07	0.14	<0.01	0.02	0.13	<0.01	0.22	<0.01	0.09	<0.01	0.1	0.1	0.3	<0.01	0.03	0.16	0.34	0.04	0.06	0.02	0.83	0.05	0.04	0.39	0.04	0.08	0.04
Phenanthrene	<0.01	0.03	0.06	0.02	<0.01	0.05	0.47	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	0.03	0.03	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.02	<0.01	0.04	0.14	0.06	0.14	0.15
Pyrene	<0.01	0.02	0.06	0.02	<0.01	0.07	0.61	0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.03	0.03	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.02	<0.01	0.08	0.17	0.05	0.2	0.2
Polyaromatic Hydrocarbons (Total)	<0.01	0.4	0.26	0.41	<0.01	0.56	4.2	0.05	0.22	<0.01	0.26	<0.01	0.1	0.1	0.52	0.1	0.03	0.16	0.34	0.16	0.06	0.02	0.83	0.17	0.48	1.2	0.37	2.4	1.1
Sum of 4No. PAHs	<0.04	0.07	<0.04	0.1	<0.04	**0.16**	**0.94**	<0.06	<0.04	<0.04	0.07	<0.04	<0.04	<0.04	0.07	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.08	<0.04	**0.12**	**<0.4**	0.08	**0.77**	**<0.12**
Sum of benzo(b) and benzo(k)fluoranthene	<0.02	0.03	<0.02	0.04	<0.02	0.08	0.57	<0.03	<0.02	<0.02	0.03	<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.04	<0.02	0.04	<0.2	0.05	0.37	0.1
Sum of indeno(123cd)pyrene and benzo(ghi)perylene	<0.02	0.04	<0.02	0.06	<0.02	0.08	0.37	<0.03	<0.02	<0.02	0.04	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.04	<0.02	0.08	<0.2	0.03	0.4	<0.02
TPH (C8-C10)	<10	<10	<10	<10		<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10			<10	**18**	<10
TPH (C10-C12)	<10	<10	<10	<10		<10	<10		<10	<10	<10	**51**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10			<10	**28**	<10
TPH (C12-C16)	**15**	<10	<10	<10		<10	**36**		<10	**11**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	**39**			<10	**20**	**29**
TPH (C16-C21)	**54**	<10	**31**	<10		<10	**59**		<10	**39**	<10	<10	<10	<10	<10	10	<10	**23**	<10	**16**	**33**	**30**	**20**	**110**			**53**	**270**	**420**
TPH (C21-C35)	**50**	<10	**51**	<10		<10	**58**		<10	**35**	<10	<10	<10	<10	<10	<10	<10	**67**	<10	**11**	**120**	<10	**39**	**170**			**240**	**2500**	**5800**
TPH (C35-C40)	<10	<10	<10	<10		<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10			**11**	**170**	**440**
Total TPH (C8-C40)	110	<10	80	<10		<10	160		<10	90	<10	50	<10	<10	<10	10	<10	90	<10	30	150	30	60	320			300	3010	6690
TPH Aliphatics >C5-C6					<10			<10																	<10	<10			<10
TPH Aliphatics >C6-C8					<10			<10																	<10	<10			<10
TPH Aliphatics >C8-C10					<10			<10																	<10	<10			<10
TPH Aliphatics >C10-C12					<10			<10																	<10	<10			<10
TPH Aliphatics >C12-C16					10			<10																	<10	10			<10
TPH Aliphatics >C16-C21					**20**			<10																	**12**	**30**			**67**
TPH Aliphatics >C21-C35					**30**			<10																	**52**	10			**1500**
TPH Aliphatics >C35-C44					<10			<10																	<10	<10			**61**
TPH Total Aliphatics (C5-C44)					60			**ND**																	60	50			1600
TPH Aromatics >C6-C7					<10			<10																	<10	<10			<10
TPH Aromatics >C7-C8					<10			<10																	<10	<10			<10
TPH Aromatics >C8-C10					<10			<10																	<10	<10			<10
TPH Aromatics >C10-C12					<10			<10																	<10	<10			<10
TPH Aromatics >C12-C16					10			<10																	**11**	<10			<10
TPH Aromatics >C16-C21					<10			<10																	**28**	10			**46**
TPH Aromatics >C21-C35					<10			**16**																	**63**	<10			**150**
TPH Aromatics >C35-C44					<10			<10																	<10	<10			**15**
TPH Total Aromatics (C6-C44)					10			20																	100	10			210
TPH Total (Aliphatics and Aromatics)					70			20																	160	60			1800
Benzene	<1				<1		<1	<1		<1		<1										<1			<1	<1			<1
Ethylbenzene	<1				<1		<1	<1		<1		<1										<1			<1	<1			<1

Date	22/10/2013	02/10/2013	22/10/2013	02/10/2013	22/10/2013	02/10/2013	24/10/2013	17/12/2013	03/10/2013	23/10/2013	02/10/2013	23/10/2013	02/10/2013	22/10/2013	02/10/2013	24/10/2013	02/10/2013	22/10/2013	03/10/2013	24/10/2013	25/10/2013	18/12/2013	25/10/2013	21/10/2013	17/12/2013	22/10/2013	24/10/2013	24/10/2013	17/12/2013
Sample ID	BH37	BH38	BH38	BH40A	BH40A	BH41A	BH41A	BH41A	BH42	BH42	BH43	BH43	BH44	BH44	BH45	BH45	BH46	BH46	BH47	BH47	WS01	WS01	WS03	WS10A	WS10A	WS13	WS20	SBP02	SBP02
Depth																													
Toluene	<1				<1		<1	<1		<1		<1										<1			<1	<1			<1
Meta/Para-Xylene	<1				<1		<1	<1		<1		<1										<1			<1	<1			<1
Ortho-Xylene	<1				<1		<1	<1		<1		<1										<1			<1	<1			<1
Methyl tert-Butyl Ether	<1				<1		<1	<1		<1		<1										<1			<1	<1			<1
Sum of Xylenes	<2				<2		<2	<2		<2		<2										<2			<2	<2			<2
1,1,1,2-Tetrachloroethane	<1						<1																			<1			<1
1,1,1-Trichloroethane	<1						<1																			<1			<1
1,1,2,2-Tetrachloroethane	<1						<1																			<1			<1
1,1,2-Trichloroethane	<1						<1																			<1			<1
1,1,2-Trichloroethylene (TCE)	<1						<1																			<1			<1
1,1-Dichloroethane	<1						<1																			<1			<1
1,1-Dichloroethylene	<1						<1																			<1			<1
1,1-Dichloro-1-propene	<1						<1																			<1			<1
1,2,3-Trichloropropane	<1						<1																			<1			<1
1,2,4-Trimethylbenzene	<1						<1																			<1			<1
1,2-Dibromoethane	**<1**						**<1**																			**<1**			**<1**
1,2-Dichlorobenzene	<1						<1																			<1			<1
1,2-Dichloroethane	<1						<1																			<1			<1
1,2-Dichloropropane	**<1**						**<1**																			**<1**			**<1**
1,3,5-Trimethylbenzene	<1						<1																			<1			<1
1,3-Dichlorobenzene	<1						<1																			<1			<1
1,3-Dichloropropane	<1						<1																			<1			<1
1,4-Dichlorobenzene	<1						<1																			<1			<1
2,2-Dichloropropane	<1						<1																			<1			<1
2-Chlorotoluene	<1						<1																			<1			<1
4-Chlorotoluene	<1						<1																			<1			<1
Benzene	<1						<1																			<1			<1
Bromobenzene	<1						<1																			<1			<1
Bromochloromethane	<1						<1																			<1			<1
Bromodichloromethane	<1						<1																			<1			<1
Bromoform	<1						<1																			<1			<1
Bromomethane	<1						<1																			<1			<1
Carbon tetrachloride	<1						<1																			<1			<1
Chlorobenzene	<1						<1																			<1			<1
Chlorodibromomethane	<1						<1																			<1			<1
Chloroethane	<1						<1																			<1			<1
Chloroform	<1						<1																			<1			<1
Chloromethane	<1						<1																			<1			<1
cis-1,2-Dichloroethylene	<1						<1																			<1			<1
cis-1,3-Dichloropropene	**<1**						**<1**																			**<1**			**<1**
Dibromomethane	<1						<1																			<1			<1
Dichlorodifluoromethane	<1						<1																			<1			<1
Dichloromethane	**<50**						**<50**																			**<50**			**<50**
Ethylbenzene	<1						<1																			<1			<1
Isopropylbenzene	<1						<1																			<1			<1
M/p-Xylene	<1						<1																			<1			<1
n-Propylbenzene	<1						<1																			<1			<1
o-Xylene	<1						<1																			<1			<1
p-Isopropyltoluene	<1						<1																			<1			<1
Sec-Butylbenzene	<1						<1																			<1			<1
Styrene	<1						<1																			<1			<1
Tert-Butylbenzene	<1						<1																			<1			<1
Tetrachloroethylene (PCE)	<1						<1																			<1			<1
Toluene	<1						<1																			<1			<1
trans-1,2-Dichloroethylene	<1						<1																			<1			<1
trans-1,3-Dichloropropene	<1						<1																			<1			<1
Trichlorofluoromethane	<1						<1																			<1			<1
Vinyl Chloride	<0.5						<0.5																			<0.5			**<1**
Sum of TCE and PCE	<2						<2																			<2			<2
1,2,4-Trichlorobenzene	<1						<1																			<1			<1
1,2-Dichlorobenzene	<1						<1																			<1			<1
1,3-Dichlorobenzene	<1						<1																			<1			<1
1,4-Dichlorobenzene	<1						<1																			<1			<1
2,4,5-Trichlorophenol	<1						<1																			<1			<1
2,4,6-Trichlorophenol	<1						<1																			<1			<1
2,4-Dichlorophenol	<1						<1																			<1			<1
2,4,-Dimethylphenol	<1						<1																			<1			<1
2,4,-Dinitrophenol	<5						<5																			<5			<5
2,4-Dinitrotoluene	<1						<1																			<1			<1
2,6-Dinitrotoluene	<1						<1																			<1			<1
2-Chloronaphthalene	<1						<1																			<1			<1
2-Chlorophenol	<1						<1																			<1			<1
2-Methylphenol	<1						<1																			<1			<1
2-Methyl naphthalene	<1						<1																			<1			<1
2-Nitroaniline	<1						<1																			<1			<1
2-Nitrophenol	<1						<1																			<1			<1
3-Nitroaniline	<1						<1																			<1			<1
3/4-Methylphenol	<1						<1																			<1			<1
4-Bromophenyl phenyl ether	<1						<1																			<1			<1
4-Chloro, 3-methylphenol	<1						<1																			<1			<1
4-Chloroaniline	<1						<1																			<1			<1
4-Chlorophenyl phenylether	<1						<1																			<1			<1
4-Nitroaniline	<1						<1																			<1			<1
4-Nitrophenol	<1						<1																			<5			<5
Acenaphthene	<1						<1																			<1			<1
Acenaphthylene	<1						<1																			<1			<1
Anthracene	<1						<1																			<1			<1
Azobenzene	<1						<1																			<1			<1
Benzo(a)anthracene	<1						<1																			<1			<1
Benzo(a)pyrene	**<1**						**<1**																			**<1**			**<1**
Benzo(b/k)fluoranthene	<1						<1																			<1			<1
Benzo(ghi)perylene	<1						<1																			<1			<1
Bis(2-chloroethoxy) methane	<1						<1																			<1			<1
Bis(2-chloroethyl)ether	<1						<1																			<1			<1
Bis(2-chloroisopropyl) ether	<1						<1																			<1			<1
Bis(2-ethylhexyl) phthalate	<1						<1																			<1			<1
Butyl benzyl phthalate	<1						<1																			<1			<1
Carbazole	<1						<1																			<1			<1
Chrysene	<1						<1																			<1			<1
Di-n-butyl phthalate	<1						<1																			<1			<1
Di-n-octyl phthalate	<1						<1																			<1			<1
Dibenz(ah)anthracene	<1						<1																			<1			<1
Dibenzofuran	<1						<1																			<1			<1
Diethyl phthalate	<1						<1																			<1			<1
Dimethyl phthalate	<1						<1																			<5			<1
Fluoranthene	<1						<1																			<1			<1
Fluorene	<1						<1																			<1			<1
Hexachlorobenzene	**<1**						**<1**																			**<1**			**<1**
Hexachlorobutadiene	**<5**						**<1**																			**<5**			**<5**

Date	22/10/2013	02/10/2013	22/10/2013	02/10/2013	22/10/2013	02/10/2013	24/10/2013	17/12/2013	03/10/2013	23/10/2013	02/10/2013	23/10/2013	02/10/2013	22/10/2013	02/10/2013	24/10/2013	02/10/2013	22/10/2013	03/10/2013	24/10/2013	25/10/2013	18/12/2013	25/10/2013	21/10/2013	17/12/2013	22/10/2013	24/10/2013	24/10/2013	17/12/2013
Sample ID	BH37	BH38	BH38	BH40A	BH40A	BH41A	BH41A	BH41A	BH42	BH42	BH43	BH43	BH44	BH44	BH45	BH45	BH46	BH46	BH47	BH47	WS01	WS01	WS03	WS10A	WS10A	WS13	WS20	SBP02	SBP02
Depth																													
Hexachlorocyclopentadiene	<5						<5																			<5			<5
Hexachloroethane	<5						<5																			<5			<1
Indeno(1,2,3,cd)pyrene	<1						<1																			<1			<1
Isophorone	<1						<1																			<1			<1
Naphthalene	<1						<1																			<1			<1
Nitrobenzene	<1						<1																			<1			<1
Pentachlorophenol	**<1**						**<1**																			**<5**			**<1**
Phenanthrene	<1						<1																			<1			<1
Phenol	**<5**						**<5**																			**<5**			**<5**
Pyrene	<1						<1																			<1			<1
PCB 101			<0.005				<0.005																				<0.005		
PCB 118			<0.005				<0.005																				<0.005		
PCB 138			<0.005				<0.005																				<0.005		
PCB 153			<0.005				<0.005																				<0.005		
PCB 180			<0.005				<0.005																				<0.005		
PCB 28			<0.005				<0.005																				<0.005		
PCB 52			<0.005				<0.005																				<0.005		
Sum of PCBs			<0.035				<0.035																				<0.035		

Substance		Screening Criteria		Number of Analyses	Reported Minimum Value	Reported Maximum Value	Statistical Mean	Standard Deviation	Number of Exceedances
		-	-						-
pH		6.5-10	UK DWS	90	6.6	8.1	7.31	0.36	0
		-	-						-
Arsenic	ug/l	10	UK DWS	90	1.1	200	54	41.3	84
Boron	ug/l	1000	UK DWS	90	48	1900	1021	501	43
Cadmium	ug/l	5	UK DWS	90	<0.02	0.41	0.043	0.055	0
Chromium (total)	ug/l	50	UK DWS	90	2	91	26.9	21.8	15
Chromium (III)	ug/l	-	-	90	<3	91	26.8	21.7	-
Chromium (VI)	ug/l	-	-	90	<3	4	3.02	0.15	-
Copper	ug/l	2000	UK DWS	90	<0.5	6500	446	1120	6
Lead	ug/l	10	UK DWS	90	<0.3	1	0.35	0.13	0
Mercury	ug/l	1	UK DWS	90	<0.05	7.2	0.15	0.77	2
Nickel	ug/l	20	UK DWS	90	4	56	17.2	12.2	27
Selenium	ug/l	10	UK DWS	90	<0.5	120	18.1	25.7	43
Zinc	ug/l	5000	UK DWS	90	<2	35	6.32	6.23	0
		-	-						-
Calcium	ug/l	250000	UK DWS	90	47000	5.40E+05	1.89E+05	1.06E+05	24
Magnesium	ug/l	-	-	90	7700	5.70E+05	2.26E+05	1.46E+05	-
Potassium	ug/l	-	-	90	3600	2.30E+05	1.06E+05	43359	-
Sodium	ug/l	-	-	90	30000	4.20E+06	1.80E+06	1.31E+06	-
Iron (dissolved)	ug/l	200	UK DWS	87	<10	26000	1588	4624	46
Iron (total)	ug/l	200	UK DWS	87	1500	1.20E+06	97976	1.62E+05	87
Manganese (dissolved)	ug/l	50	UK DWS	87	16	8500	1175	1289	84
Manganese (total)	ug/l	50	UK DWS	87	55	46000	5803	8484	87
		-	-						-
Nitrate	mg/l	50	UK DWS	90	<0.5	37	1.78	5.42	0
Nitrite	mg/l	0.5	UK DWS	90	<0.1	5.1	0.24	0.61	5
TON	mg/l	-	-	90	<0.1	8.4	0.43	1.27	-
Sulphate	mg/l	250	UK DWS	90	<0.5	3300	269	471	27
Sulphide	mg/l	-	-	90	<0.05	<0.05	0.05	9.07E-17	-
Sulphur	mg/l	-	-	90	<0.01	450	97.5	127	-
Chloride	mg/l	250	UK DWS	90	33	9800	3496	2981	72
Ammoniacal Nitrogen as N	mg/l	0.39	UK DWS	90	0.028	50	13.1	11.7	88
Ammoniacal Nitrogen as NH4	mg/l	0.5	UK DWS	90	0.04	65	16.9	15.1	88
Total Suspended Solids	mg/l	-	-	90	<10	80000	4869	12241	-
Electrical Conductivity	uS/cm	2500	UK DWS	90	850	27000	12036	7816	80
Total Alkalinity as CaCO3	mg/l	-	-						-
		-	-						-
Phenols (total)	ug/l	0.5	UK DWS	90	<0.5	9.4	0.93	1.35	27
Cyanide (total)	ug/l	50	UK DWS	90	<10	54	12.6	7.52	1
Cyanide (free)	ug/l	50	UK DWS	90	<10	<10	10	0	0
		-	-						-
Acenaphthene	ug/l	-	-	90	<0.01	0.09	0.02	0.02	-
Acenaphthylene	ug/l	-	-	90	<0.01	0.11	0.016	0.017	-
Anthracene	ug/l	-	-	90	<0.01	0.16	0.02	0.028	-
Benzo(a)anthracene	ug/l	-	-	90	<0.01	0.34	0.023	0.045	-
Benzo(a)pyrene	ug/l	0.01	UK DWS	90	<0.01	0.33	0.026	0.046	19
Benzo(b)fluoranthene	ug/l	-	-	90	<0.01	0.3	0.028	0.049	-
Benzo(ghi)perylene	ug/l	-	-	90	<0.01	0.19	0.026	0.038	-
Benzo(k)fluoranthene	ug/l	-	-	90	<0.01	0.27	0.024	0.04	-
Chrysene	ug/l	-	-	90	<0.01	0.32	0.024	0.051	-
Dibenzo(ah)anthracene	ug/l	-	-	90	<0.01	0.24	0.022	0.035	-
Fluoranthene	ug/l	-	-	90	<0.01	0.71	0.04	0.091	-
Fluorene	ug/l	-	-	90	<0.01	0.15	0.019	0.024	-
Indeno(1,2,3cd)pyrene	ug/l	-	-	90	<0.01	0.21	0.026	0.037	-
Naphthalene	ug/l	-	-	90	<0.01	4.7	0.23	0.62	-
Phenanthrene	ug/l	-	-	90	<0.01	0.63	0.043	0.098	-
Pyrene	ug/l	-	-	90	<0.01	0.61	0.036	0.078	-
Polyaromatic Hydrocarbons (Total)	ug/l	-	-	90	<0.01	4.9	0.47	0.87	-
Sum of 4No. PAHs	ug/l	0.1	UK DWS	90	<0.04	0.94	0.1	0.16	17
Sum of benzo(b) and benzo(k)fluoranthene	ug/l	-	-	90	<0.02	0.57	0.051	0.088	-
Sum of indeno(123cd)pyrene and benzo(ghi)perylene	ug/l	-	-	90	<0.02	0.4	0.051	0.074	-
	ug/l	-	-						-
TPH (C8-C10)	ug/l	10	UK DWS	70	<10	20	10.4	1.91	3
TPH (C10-C12)	ug/l	10	UK DWS	70	<10	51	11.8	7.15	6
TPH (C12-C16)	ug/l	10	UK DWS	70	<10	400	27.4	58.8	19
TPH (C16-C21)	ug/l	10	UK DWS	70	<10	420	35.7	65.1	32
TPH (C21-C35)	ug/l	10	UK DWS	70	<10	5800	156	748	30
TPH (C35-C40)	ug/l	10	UK DWS	70	<10	440	19.4	54.7	7
Total TPH (C8-C40)	ug/l	-	-	70	<10	6690	219	871	-
		-	-						-
TPH Aliphatics >C5-C6	ug/l	10	UK DWS	21	<10	<10	10	0	0
TPH Aliphatics >C6-C8	ug/l	10	UK DWS	21	<10	<10	10	0	0
TPH Aliphatics >C8-C10	ug/l	10	UK DWS	21	<10	<10	10	0	0
TPH Aliphatics >C10-C12	ug/l	10	UK DWS	21	<10	<50	12.9	9.02	3
TPH Aliphatics >C12-C16	ug/l	10	UK DWS	21	<10	50	18.2	14	7
TPH Aliphatics >C16-C21	ug/l	10	UK DWS	21	<10	140	28.6	32.5	11
TPH Aliphatics >C21-C35	ug/l	10	UK DWS	21	<10	1500	125	326	15
TPH Aliphatics >C35-C44	ug/l	10	UK DWS	21	<10	70	18.1	18.2	5
TPH Total Aliphatics (C5-C44)	ug/l	-	-	17	10	1600	202	384	-
		-	-						-
TPH Aromatics >C6-C7	ug/l	10	UK DWS	21	<10	<10	10	0	0
TPH Aromatics >C7-C8	ug/l	10	UK DWS	21	<10	<10	10	0	0
TPH Aromatics >C8-C10	ug/l	10	UK DWS	21	<10	<10	10	0	0
TPH Aromatics >C10-C12	ug/l	10	UK DWS	21	<10	66	15	14.7	3
TPH Aromatics >C12-C16	ug/l	10	UK DWS	21	<10	120	26.2	32.1	8
TPH Aromatics >C16-C21	ug/l	10	UK DWS	21	<10	450	58.7	109	11
TPH Aromatics >C21-C35	ug/l	10	UK DWS	21	<10	3300	238	748	12
TPH Aromatics >C35-C44	ug/l	10	UK DWS	21	<10	240	31.2	59.5	5
TPH Total Aromatics (C6-C44)	ug/l	-	-	17	10	4100	411	1033	-
		-	-						-
TPH Total (Aliphatics and Aromatics)	ug/l	-	-	19	20	4400	546	1113	-
		-	-						-
Benzene	ug/l	1	UK DWS	32	<1	<1	1	0	0
Ethylbenzene	ug/l	300	WHO DWS 2011	32	<1	<1	1	0	0
Toluene	ug/l	700	WHO DWS 2011	32	<1	<1	1	0	0
Meta/Para-Xylene	ug/l	-	-	32	<1	<1	1	0	-
Ortho-Xylene	ug/l	-	-	32	<1	<1	1	0	-
Methyl tert-Butyl Ether	ug/l	-	-	32	<1	120	5.94	21.9	-
Sum of Xylenes	ug/l	-	-	32	<2	<2	2	0	-
	ug/l	-	-						-
1,1,1,2-Tetrachloroethane	ug/l	-	-	15	<1	<1	1	0	-
1,1,1-Trichloroethane	ug/l	-	-	15	<1	<1	1	0	-
1,1,2,2-Tetrachloroethane	ug/l	-	-	15	<1	<1	1	0	-
1,1,2-Trichloroethane	ug/l	-	-	15	<1	<1	1	0	-
1,1,2-Trichloroethylene (TCE)	ug/l	-	-	15	<1	<1	1	0	-
1,1-Dichloroethane	ug/l	-	-	15	<1	<1	1	0	-
1,1-Dichloroethylene	ug/l	-	-	15	<1	<1	1	0	-
1,1-Dichloro-1-propene	ug/l	-	-	15	<1	<1	1	0	-
1,2,3-Trichloropropane	ug/l	-	-	15	<1	<1	1	0	-
1,2,4-Trimethylbenzene	ug/l	-	-	15	<1	<1	1	0	-
1,2-Dibromoethane	ug/l	0.4	UK DWS	15	<1	<1	1	0	15
1,2-Dichlorobenzene	ug/l	1000	WHO DWS 2011	15	<1	<1	1	0	0
1,2-Dichloroethane	ug/l	3	UK DWS	15	<1	<1	1	0	0
1,2-Dichloropropane	ug/l	0.1	UK DWS	15	<1	<1	1	0	15
1,3,5-Trimethylbenzene	ug/l	-	-	15	<1	<1	1	0	-

Grontmij Limited

Substance		Screening Criteria		Number of Analyses	Reported Minimum Value	Reported Maximum Value	Statistical Mean	Standard Deviation	Number of Exceedances
1,3-Dichlorobenzene	ug/l	-	-	15	<1	<1	1	0	-
1,3-Dichloropropane	ug/l	-	-	15	<1	<1	1	0	-
1,4-Dichlorobenzene	ug/l	80	UK DWS	15	<1	<1	1	0	0
2,2-Dichloropropane	ug/l	-	-	15	<1	<1	1	0	-
2-Chlorotoluene	ug/l	-	-	15	<1	<1	1	0	-
4-Chlorotoluene	ug/l	-	-	15	<1	<1	1	0	-
Benzene	ug/l	1	UK DWS	15	<1	<1	1	0	0
Bromobenzene	ug/l	-	-	15	<1	<1	1	0	-
Bromochloromethane	ug/l	-	-	15	<1	<1	1	0	-
Bromodichloromethane	ug/l	60	WHO DWS 2011	15	<1	<1	1	0	0
Bromoform	ug/l	100	WHO DWS 2011	15	<1	5	1.47	1.25	0
Bromomethane	ug/l	-	-	15	<1	<1	1	0	-
Carbon tetrachloride	ug/l	3	UK DWS	15	<1	<1	1	0	0
Chlorobenzene	ug/l	100	UK DWS	15	<1	<1	1	0	0
Chlorodibromomethane	ug/l	-	-	15	<1	3	1.27	0.7	-
Chloroethane	ug/l	-	-	15	<1	<1	1	0	-
Chloroform	ug/l	300	WHO DWS 2011	15	<1	<1	1	0	0
Chloromethane	ug/l	-	-	15	<1	<1	1	0	-
cis-1,2-Dichloroethylene	ug/l	-	-	15	<1	<1	1	0	-
cis-1,3-Dichloropropene	ug/l	0.1	UK DWS	15	<1	<1	1	0	15
Dibromomethane	ug/l	-	-	15	<1	<1	1	0	-
Dichlorodifluoromethane	ug/l	-	-	15	<1	<1	1	0	-
Dichloromethane	ug/l	20	WHO DWS 2011	15	<50	<50	50	0	15
Ethylbenzene	ug/l	300	WHO DWS 2011	15	<1	<1	1	0	0
Isopropylbenzene	ug/l	-	-	15	<1	<1	1	0	-
M/p-Xylene	ug/l	-	-	15	<1	<1	1	0	-
n-Propylbenzene	ug/l	-	-	15	<1	<1	1	0	-
o-Xylene	ug/l	-	-	15	<1	<1	1	0	-
p-Isopropyltoluene	ug/l	-	-	15	<1	<1	1	0	-
Sec-Butylbenzene	ug/l	-	-	15	<1	<1	1	0	-
Styrene	ug/l	20	WHO DWS 2011	15	<1	<1	1	0	0
Tert-Butylbenzene	ug/l	-	-	15	<1	<1	1	0	-
Tetrachloroethylene (PCE)	ug/l	-	-	15	<1	<1	1	0	-
Toluene	ug/l	700	WHO DWS 2011	15	<1	<1	1	0	0
trans-1,2-Dichloroethylene	ug/l	-	-	15	<1	<1	1	0	-
trans-1,3-Dichloropropene	ug/l	-	-	15	<1	<1	1	0	-
Trichlorofluoromethane	ug/l	-	-	15	<1	<1	1	0	-
Vinyl Chloride	ug/l	0.5	UK DWS	15	<0.5	<1	0.53	0.13	1
Sum of TCE and PCE	ug/l	10	UK DWS	15	<2	<2	2	0	0
		-	-						-
1,2,4-Trichlorobenzene	ug/l	-	-	15	<1	<1	1	0	-
1,2-Dichlorobenzene	ug/l	1000	WHO DWS 2011	15	<1	<1	1	0	0
1,3-Dichlorobenzene	ug/l	-	-	15	<1	<1	1	0	-
1,4-Dichlorobenzene	ug/l	300	WHO DWS 2011	15	<1	<1	1	0	0
2,4,5-Trichlorophenol	ug/l	-	-	15	<1	<1	1	0	-
2,4,6-Trichlorophenol	ug/l	200	WHO DWS 2011	15	<1	<1	1	0	0
2,4-Dichlorophenol	ug/l	-	-	15	<1	<1	1	0	-
2,4,-Dimethylphenol	ug/l	-	-	15	<1	<1	1	0	-
2,4,-Dinitrophenol	ug/l	-	-	15	<5	<5	5	0	-
2,4-Dinitrotoluene	ug/l	-	-	15	<1	<1	1	0	-
2,6-Dinitrotoluene	ug/l	-	-	15	<1	<1	1	0	-
2-Chloronaphthalene	ug/l	-	-	15	<1	<1	1	0	-
2-Chlorophenol	ug/l	-	-	15	<1	<1	1	0	-
2-Methylphenol	ug/l	-	-	15	<1	<1	1	0	-
2-Methyl naphthalene	ug/l	-	-	15	<1	<1	1	0	-
2-Nitroaniline	ug/l	-	-	15	<1	<1	1	0	-
2-Nitrophenol	ug/l	-	-	15	<1	<1	1	0	-
3-Nitroaniline	ug/l	-	-	15	<1	<1	1	0	-
3/4-Methylphenol	ug/l	-	-	15	<1	<1	1	0	-
4-Bromophenyl phenyl ether	ug/l	-	-	15	<1	<1	1	0	-
4-Chloro, 3-methylphenol	ug/l	-	-	15	<1	<1	1	0	-
4-Chloroaniline	ug/l	-	-	15	<1	<1	1	0	-
4-Chlorophenyl phenylether	ug/l	-	-	15	<1	<1	1	0	-
4-Nitroaniline	ug/l	-	-	15	<1	<1	1	0	-
4-Nitrophenol	ug/l	-	-	15	<1	<5	3.4	2.03	-
Acenaphthene	ug/l	-	-	15	<1	<1	1	0	-
Acenaphthylene	ug/l	-	-	15	<1	<1	1	0	-
Anthracene	ug/l	-	-	15	<1	<1	1	0	-
Azobenzene	ug/l	-	-	15	<1	<1	1	0	-
Benzo(a)anthracene	ug/l	-	-	15	<1	<1	1	0	-
Benzo(a)pyrene	ug/l	0.01	UK DWS	15	<1	<1	1	0	15
Benzo(b/k)fluoranthene	ug/l	-	-	15	<1	<1	1	0	-
Benzo(ghi)perylene	ug/l	-	-	15	<1	<1	1	0	-
Bis(2-chloroethoxy) methane	ug/l	-	-	15	<1	<1	1	0	-
Bis(2-chloroethyl)ether	ug/l	-	-	15	<1	<1	1	0	-
Bis(2-chloroisopropyl) ether	ug/l	-	-	15	<1	<1	1	0	-
Bis(2-ethylhexyl) phthalate	ug/l	-	-	15	<1	<1	1	0	-
Butyl benzyl phthalate	ug/l	-	-	15	<1	<1	1	0	-
Carbazole	ug/l	-	-	15	<1	<1	1	0	-
Chrysene	ug/l	-	-	15	<1	<1	1	0	-
Di-n-butyl phthalate	ug/l	-	-	15	<1	<1	1	0	-
Di-n-octyl phthalate	ug/l	-	-	15	<1	<1	1	0	-
Dibenz(ah)anthracene	ug/l	-	-	15	<1	<1	1	0	-
Dibenzofuran	ug/l	-	-	15	<1	<1	1	0	-
Diethyl phthalate	ug/l	-	-	15	<1	<1	1	0	-
Dimethyl phthalate	ug/l	-	-	15	<1	<5	3.13	2.07	-
Fluoranthene	ug/l	-	-	15	<1	<1	1	0	-
Fluorene	ug/l	-	-	15	<1	<1	1	0	-
Hexachlorobenzene	ug/l	0.1	UK DWS	15	<1	<1	1	0	15
Hexachlorobutadiene	ug/l	0.6	WHO DWS 2011	15	<1	<5	3.4	2.03	15
Hexachlorocyclopentadiene	ug/l	-	-	15	<5	<5	5	0	-
Hexachloroethane	ug/l	-	-	15	<1	<5	4.47	1.41	-
Indeno(1,2,3,cd)pyrene	ug/l	-	-	15	<1	<1	1	0	-
Isophorone	ug/l	-	-	15	<1	<1	1	0	-
Naphthalene	ug/l	-	-	15	<1	<1	1	0	-
Nitrobenzene	ug/l	-	-	15	<1	<1	1	0	-
Pentachlorophenol	ug/l	0.1	UK DWS	15	<1	<5	2.87	2.07	15
Phenanthrene	ug/l	-	-	15	<1	<1	1	0	-
Phenol	ug/l	0.5	UK DWS	15	<5	<5	5	0	15
Pyrene	ug/l	-	-	15	<1	<1	1	0	-
		-	-						-
PCB 101	ug/l	-	-	9	<0.005	<0.005	0.005	0	-
PCB 118	ug/l	-	-	9	<0.005	<0.005	0.005	0	-
PCB 138	ug/l	-	-	9	<0.005	<0.005	0.005	0	-
PCB 153	ug/l	-	-	9	<0.005	<0.005	0.005	0	-
PCB 180	ug/l	-	-	9	<0.005	<0.005	0.005	0	-
PCB 28	ug/l	-	-	9	<0.005	<0.005	0.005	0	-
PCB 52	ug/l	-	-	9	<0.005	<0.005	0.005	0	-
Sum of PCBs	ug/l	0.5	UK DWS	9	<0.035	<0.035	0.035	0	0

Grontmij Limited

Multiplier: 1 x"<"

A63 Castle Street - GROUNDWATER CHALK DWS

Screening Level	Substance	Units																													
Strata			Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk
Observed Contamination			ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 2	PRELIM RD 2	ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 3	PRELIM RD 1	PRELIM RD 2	ROUND 1	ROUND 2	PUMP TEST	ROUND 3	PRELIM RD 2	ROUND 2	PUMP TEST	ROUND 3	ROUND 1	ROUND 2	ROUND 3	PUMP TEST	PUMP TEST	PUMP TEST	PUMP TEST	PUMP TEST	PUMP TEST
Sample Description																															
Date	-		01/10/2013	21/10/2013	16/12/2013	01/10/2013	21/10/2013	16/09/2013	03/10/2013	25/10/2013	18/12/2013	01/10/2013	17/12/2013	05/09/2013	16/09/2013	03/10/2013	24/10/2013	28/11/2013	17/12/2013	16/09/2013	24/10/2013	28/11/2013	17/12/2013	01/10/2013	21/10/2013	17/12/2013	27/11/2013	27/11/2013	06/12/2013	09/12/2013	10/12/2013	11/12/2013	18/12/2013
Sample ID	-		BH02	BH02	BH02	BH11	BH11	BH18A	BH18A	BH18A	BH18A	BH22	BH22	BH24	BH24	BH24	BH24	BH24	BH24	BH29	BH29	BH29	BH29	BH33	BH33	BH33	LDBH_01 (A)	LDBH_01 (B)	LDBH_01	LDBH_01	LDBH_01	LDBH_01	LDBH_01
Depth	m																														
-																															
6.5-10	pH		7.5	7.1	7	8.1	11	11.7	7.2	7.2	7.4	8	6.9	7.4	7.6	7.2	7.1	7.1	7	11.9	7	7.1	7.6	7.5	7.1	6.9	7.2	7.1	7	7.1	7.2	7	9.8
-																																	
10	Arsenic	ug/l	**72**	**97**	**67**	**19**	**23**	**45**	**72**	**110**	**48**	**91**	**67**	**75**	**37**	**68**	**170**	**78**	**29**	**36**	**170**	**76**	**17**	**64**	**40**	**54**	**130**	**110**		**320**	**96**	**310**	**25**
1000	Boron	ug/l	**2100**	**2000**	**1900**	**1300**	540	350	**2000**	**1400**	**1900**	**1600**	**1900**	330	380	**2000**	**1900**	**2000**	**1600**	63	**1800**	**2000**	850	**1900**	840	740	**1900**	**1900**		**2100**	**2000**	**2100**	160
5	Cadmium	ug/l	0.06	<0.02	0.02	<0.02	<0.02	0.09	0.05	0.05	0.09	<0.02	<0.02	0.04	0.11	0.07	0.04	0.03	0.02	0.15	0.03	0.04	<0.02	0.03	0.04	<0.02	0.15	0.05		0.06	0.03	0.04	0.89
50	Chromium (total)	ug/l	15	7	11	40	2	41	14	8	5	**78**	15	16	19	16	11	10	2	3	10	13	**51**	16	10	**68**	12	12		23	11	23	1
-	Chromium (III)	ug/l	15	7	11	40	<3	27	14	8	5	78	15	13	<3	16	11	10	<3	3	10	13	51	16	10	68	12	12		23	11	23	<3
-	Chromium (VI)	ug/l	<3	<3	<3	<3	<3	14	<3	<3	<3	<3	<3	3	17	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3		<3	<3	<3	<3
2000	Copper	ug/l	1500	390	300	17	38	20	510	570	540	63	160	12	14	520	610	120	450	50	**4500**	250	35	**4500**	55	120	94	160		74	200	49	160
10	Lead	ug/l	0.4	<0.3	<0.3	<0.3	<0.3	**12**	<0.3	0.6	<0.3	0.3	<0.3	1.1	**17**	0.5	<0.3	<0.3	<0.3	7.9	<0.3	<0.3	0.7	<0.3	<0.3	<0.3	<0.3	<0.3		<0.3	<0.3	<0.3	<0.3
1	Mercury	ug/l	<0.05	<0.05	<0.05	<0.05	<0.05	0.21	<0.05	<0.05	0.08	<0.05	<0.05	<0.05	0.08	<0.05	<0.05	<0.05	0.28	0.11	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.1	<0.05		<0.05	<0.05	<0.05	0.08
20	Nickel	ug/l	**36**	**25**	**34**	6	**30**	6	**39**	**34**	**21**	6	18	16	14	**57**	**42**	**32**	**24**	**39**	**36**	**29**	14	**40**	10	13	**32**	**31**		**47**	**31**	**44**	5
10	Selenium	ug/l	<0.5	**110**	<0.5	6.3	**44**	**160**	<0.5	<0.5	<0.5	**22**	<0.5	**54**	**57**	<0.5	<0.5	<0.5	<0.5	**94**	<0.5	<0.5	8.8	<0.5	**86**	<0.5	<0.5	<0.5		**210**	<0.5	**200**	**85**
5000	Zinc	ug/l	3	5	9	3	<2	2	15	10	6	<2	6	32	22	13	8	7	4	3	8	9	13	3	4	5	51	40		78	26	57	2
-																																	
250000	Calcium	ug/l	**300000**	220000	240000	53000	130000	240000	250000	**350000**	**260000**	59000	200000	130000	170000	200000	200000	240000	**260000**	240000	190000	240000	100000	240000	200000	200000	**260000**	**260000**	**270000**	210000	210000	210000	170000
-	Magnesium	ug/l	590000	580000	630000	62000	9300	250	520000	470000	570000	110000	600000	99000	130000	530000	590000	520000	590000	<100	570000	510000	52000	520000	350000	320000	580000	580000	610000	590000	490000	580000	94000
-	Potassium	ug/l	250000	240000	240000	76000	110000	82000	210000	210000	230000	100000	230000	62000	75000	220000	220000	210000	250000	78000	210000	200000	82000	220000	110000	100000	230000	230000	260000	220000	200000	230000	820000
-	Sodium	ug/l	4100000	4600000	5400000	280000	1700000	1500000	3600000	4500000	4200000	970000	4600000	860000	1100000	3900000	4400000	3800000	4300000	1500000	4500000	3400000	330000	3600000	3100000	2900000	4400000	4200000	4100000	3300000	3400000	2200000	2600000
200	Iron (dissolved)	ug/l	**900**	12	70	200	<10		**230**	200	**350**	**3300**	**1600**			**250**	**220**	150	**310**		**210**	150	95	**280**	62	130	<10	33		<10	<10	200	**230**
200	Iron (total)	ug/l	**6400**	**6500**	**7800**	**4000**	**2700**		**8600**	**4100**	**10000**	**20000**	**10000**			**4600**	**4400**	**12000**	**24000**		**5500**	**11000**	**7100**	**8600**	**54000**	**47000**	**9700**	**6800**		**6600**	**6100**	**6300**	**4200**
50	Manganese (dissolved)	ug/l	**1500**	**1300**	**1200**	**830**	<10		**510**	**330**	**500**	**1100**	**360**			**460**	**440**	**470**	**470**		**510**	**500**	**510**	**500**	**800**	**2500**	**420**	**420**		**400**	**380**	**420**	11
50	Manganese (total)	ug/l	**1300**	**1400**	**1300**	**890**	**190**		**550**	**340**	**570**	**1600**	**370**			**470**	**460**	**500**	**510**		**510**	**560**	**580**	**450**	**1100**	**3300**	**430**	**440**		**410**	**400**	**430**	**110**
-																																	
50	Nitrate	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	10	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	5	<0.5	<0.5	<0.5	<0.5	10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5
0.5	Nitrite	mg/l	0.1	<0.1	<0.1	0.2	<0.1	**3.3**	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	**5.2**	0.2	<0.1	<0.1	<0.1	**0.8**	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
-	TON	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	3.2	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	2.7	0.2	<0.1	<0.1	<0.1	2.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1
250	Sulphate	mg/l	**1500**	**1100**	**1200**	160	**480**	**610**	**1300**	**850**	**1100**	13	**1200**	130	130	**1300**	**1000**	**1200**	**1300**	**320**	**990**	**1100**	**1100**	**1400**	1.8	11	**1200**	**1200**		**1200**	180	**1300**	**930**
-	Sulphide	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	0.05	<0.05	<0.05
-	Sulphur	mg/l	450	480	520	71	130	210	420	390	440	5.9	470	56	74	420	420	480	500	120	410	450	120	440	5.4	4.3	420	420		480	440	490	380
250	Chloride	mg/l	**9800**	**7800**	**9800**	**2500**	**4300**	**3800**	**9500**	**6300**	**8100**	**1500**	**8900**	**1700**	**2100**	**11000**	**7100**	**9800**	**9700**	**3200**	**7300**	**8800**	**8800**	**9400**	**4000**	**6100**	**10000**	**9500**	**10000**	**10000**	79	**9300**	**5500**
0.39	Ammoniacal Nitrogen as N	mg/l	**1.6**	**1.4**	**1.1**	**12**	**7.1**	**9.1**	**1.7**	**2.4**	**1.6**	**16**	**2**	**14**	**5.5**	**1.1**	**0.96**	**1.5**	**1.1**	**18**	**2.2**	**1.5**	**3.7**	**1.7**	**20**	**28**	**1.2**	**1.2**		**1.9**	0.32	**1.7**	**23**
0.5	Ammoniacal Nitrogen as NH4	mg/l	**2.1**	**1.8**	**1.4**	**16**	**9.1**	**12**	**2.2**	**3.1**	**2**	**21**	**2.6**	**17**	**7.1**	**1.4**	**1.2**	**2**	**1.4**	**23**	**2.9**	**1.9**	**4.7**	**2.2**	**26**	**37**	**1.6**	**1.5**		**2.4**	0.39	**2.2**	**30**
-	Total Suspended Solids	mg/l	50	120	47	130	360	27	55	41	300	580	99	210	14	<10	33	56	74	52	41	130	28	25	440	660	74	85	86	62	100	72	43
2500	Electrical Conductivity	uS/cm	**27000**	**23000**	**28000**	**3000**	**9400**	**10000**	**25000**	**25000**	**24000**	**7000**	**27000**	**7200**	**9100**	**25000**	**26000**	**26000**	**24000**	**7100**	**26000**	**25000**	**27000**	**26000**	**16000**	**20000**	**26000**	**26000**	**24000**	**24000**	**25000**	**24000**	**16000**
-	Total Alkalinity as CaCO3	mg/l																180				220					200	190	170	160	350	170	250
-																																	
0.5	Phenols (total)	ug/l	<0.5	<0.5	<0.5	<0.5	**4.4**	**0.9**	<0.5	<0.5	<0.5	<0.5	<0.5	**0.7**	**1.2**	<0.5	**0.6**	<0.5	<0.5	**2.4**	0.5	<0.5	**0.9**	<0.5	**0.7**	<0.5	<0.5	<0.5		<0.5	**1**	<0.5	<0.5
50	Cyanide (total)	ug/l	<10	<10	<10	<10	<10	<10	18	<10	<10	**150**	<10	<10	<10	26	<10	17	<10	<10	<10	48	15	<10	<10	<10	36	**71**		20	<10	<10	<10
50	Cyanide (free)	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	18	<10	<10	<10	25	<10	<10	<10	<10	24	31		<10	<10	<10	<10
-																																	
-	Acenaphthene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.01	0.02	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
-	Acenaphthylene	ug/l	<0.01	<0.01	<0.01	<0.01	0.02	0.02	0.23	<0.01	<0.01	<0.01	<0.01	0.05	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
-	Anthracene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
-	Benzo(a)anthracene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.02	0.03	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
0.01	Benzo(a)pyrene	ug/l	<0.01	**<0.10**	<0.01	<0.01	<0.01	**0.02**	<0.01	**0.02**	<0.01	<0.01	<0.01	<0.01	**0.03**	<0.01	<0.01	<0.01	<0.01	**0.02**	<0.01	<0.01	**0.02**	<0.01	**<0.10**	**0.03**	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
-	Benzo(b)fluoranthene	ug/l	<0.01	<0.10	0.02	<0.01	<0.01	0.02	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.01	<0.01	<0.10	0.01	0.02	<0.01		<0.01	<0.01	<0.01	<0.01
-	Benzo(ghi)perylene	ug/l	<0.01	<0.10	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.10	0.01	0.01	<0.01		<0.01	<0.01	<0.01	<0.01
-	Benzo(k)fluoranthene	ug/l	<0.01	<0.10	0.01	<0.01	<0.01	0.02	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01	0.01	<0.01		<0.01	<0.01	<0.01	<0.01
-	Chrysene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.02	0.03	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01		<0.01	<0.01	<0.01	<0.01
-	Dibenzo(ah)anthracene	ug/l	<0.01	<0.10	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01	0.02	<0.01		<0.01	<0.01	<0.01	<0.01
-	Fluoranthene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	0.04	0.07	<0.01	<0.01	<0.01	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	0.17	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
-	Fluorene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.09	0.02	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
-	Indeno(1,2,3cd)pyrene	ug/l	<0.01	<0.10	0.02	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.02	<0.01	<0.10	0.03	0.02	<0.01		<0.01	<0.01	<0.01	<0.01
-	Naphthalene	ug/l	0.41	0.06	0.04	0.1	0.26	<0.01	3.3	0.07	<0.01	0.3	<0.01	0.04	<0.01	0.34	0.03	0.02	<0.01	<0.01	0.02	<0.01	0.03	0.24	0.07	0.03	0.05	0.02		<0.01	0.27	<0.01	<0.01
-	Phenanthrene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	0.19	0.11	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	0.12	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.01	0.02		<0.01	<0.01	<0.01	<0.01
-	Pyrene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	0.06	0.07	<0.01	<0.01	<0.01	<0.01	0.12	<0.01	<0.01	<0.01	<0.01	0.12	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
-	Polyaromatic Hydrocarbons (Total)	ug/l	0.41	<0.10	0.09	0.1	0.28	0.41	4.1	0.46	<0.01	0.3	<0.01	0.09	0.62	0.34	0.03	0.02	<0.01	0.64	0.02	0.07	0.08	0.24	<0.10	0.13	0.15	0.04		<0.01	0.27	<0.01	<0.01
0.1	Sum of 4No. PAHs	ug/l	<0.04	**<0.4**	<0.06	<0.04	<0.04	0.08	<0.04	<0.06	<0.04	<0.04	<0.04	<0.04	**0.12**	<0.04	<0.04	<0.04	<0.04	0.08	<0.04	<0.04	<0.05	<0.04	**<0.4**	<0.06	0.06	<0.04		<0.04	<0.04	<0.04	<0.04
-	Sum of benzo(b) and benzo(k)fluoranthene	ug/l	<0.02	<0.2	0.03	<0.02	<0.02	0.04	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.2	<0.02	0.03	<0.02		<0.02	<0.02	<0.02	<0.02
-	Sum of indeno(123cd)pyrene and benzo(ghi)perylene	ug/l	<0.02	<0.2	<0.03	<0.02	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.03	<0.02	<0.2	0.04	0.03	<0.02		<0.02	<0.02	<0.02	<0.02
-		ug/l																															
10	TPH (C8-C10)	ug/l	<10	<10	<10	<10	<10	<10	<10		<10	<10		<10	<10	<10		<10		<10		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10
10	TPH (C10-C12)	ug/l	<10	<10	<10	<10	**13**	<10	<10		<10	<10		<10	<10	<10		<10		<10		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10
10	TPH (C12-C16)	ug/l	<10	<10	<10	<10	<10	<10	<10		<10	<10		**11**	**11**	<10		<10		<10		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	**100**
10	TPH (C16-C21)	ug/l	<10	<10	<10	<10	<10	**12**	<10		<10	<10		**32**	**21**	<10		<10		**11**		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	**20**
10	TPH (C21-C35)	ug/l	<10	<10	<10	<10	**31**	**22**	**51**		<10	**24**		**160**	**58**	**33**		<10		**20**		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10
10	TPH (C35-C40)	ug/l	<10	<10	<10	<10	<10	<10	<10		<10	<10		**21**	<10	<10		<10		<10		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10
-	Total TPH (C8-C40)	ug/l	<10	<10	<10	<10	40	30	50		<10	20		220	90	30		<10		30		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	120
-																																	
10	TPH Aliphatics >C5-C6	ug/l								<10			<10				<10		<10		<10		<10										
10	TPH Aliphatics >C6-C8	ug/l								<10			<10				<10		<10		<10		<10										
10	TPH Aliphatics >C8-C10	ug/l								<10			<10				<10		<10		<10		<10										
10	TPH Aliphatics >C10-C12	ug/l								<10			<10				<10		<10		**180**		<10										
10	TPH Aliphatics >C12-C16	ug/l								<10			<10				<10		<10		**1300**		<10										
10	TPH Aliphatics >C16-C21	ug/l								**20**			<10				**15**		<10		**4800**		<10										
10	TPH Aliphatics >C21-C35	ug/l								**90**			<10				**33**		<10		**25000**		<10										
10	TPH Aliphatics >C35-C44	ug/l								<10			<10				<10		<10		**1700**		<10										
-	TPH Total Aliphatics (C5-C44)	ug/l								110			**ND**				50		**ND**		33000		**ND**										
-																																	
10	TPH Aromatics >C6-C7	ug/l								<10			<10				<10		<10		<10		<10										
10	TPH Aromatics >C7-C8	ug/l								<10			<10				<10		<10		<10		<10										
10	TPH Aromatics >C8-C10	ug/l								<10			<10				<10		<10		<10		<10										
10	TPH Aromatics >C10-C12	ug/l								<10			<10				<10		<10		**27**		<10										
10	TPH Aromatics >C12-C16	ug/l								<10			<10				**31**		<10		**220**		<10										
10	TPH Aromatics >C16-C21	ug/l								<10			<10				**180**		<10		**600**		<10										
10	TPH Aromatics >C21-C35	ug/l								<10			<10				**1300**		<10		**3900**		<10										
10	TPH Aromatics >C35-C44	ug/l								<10			<10				**140**		<10		**320**		<10										
-	TPH Total Aromatics (C6-C44)	ug/l								<10			**ND**				1700		**ND**		5100		**ND**										
-																																	
-	TPH Total (Aliphatics and Aromatics)	ug/l								110			**ND**				1700		**ND**		38000		**ND**										
-																																	
1	Benzene	ug/l								<1			<1				<1		<1		<1		<1			<1							<1
300	Ethylbenzene	ug/l								<1			<1				<1		<1		<1		<1			<1							<1
700	Toluene	ug/l								<1			<1				<1		<1		<1		<1			<1							<1
-	Meta/Para-Xylene	ug/l								<1			<1				<1		<1		<1		<1			<1							<1
-	Ortho-Xylene	ug/l								<1			<1				<1		<1		<1		<1			<1							<1

Date	-	01/10/2013	21/10/2013	16/12/2013	01/10/2013	21/10/2013	16/09/2013	03/10/2013	25/10/2013	18/12/2013	01/10/2013	17/12/2013	05/09/2013	16/09/2013	03/10/2013	24/10/2013	28/11/2013	17/12/2013	16/09/2013	24/10/2013	28/11/2013	17/12/2013	01/10/2013	21/10/2013	17/12/2013	27/11/2013	27/11/2013	06/12/2013	09/12/2013	10/12/2013	11/12/2013	18/12/2013
Sample ID	-	BH02	BH02	BH02	BH11	BH11	BH18A	BH18A	BH18A	BH18A	BH22	BH22	BH24	BH24	BH24	BH24	BH24	BH24	BH29	BH29	BH29	BH29	BH33	BH33	BH33	LDBH_01 (A)	LDBH_01 (B)	LDBH_01	LDBH_01	LDBH_01	LDBH_01	LDBH_01
Depth	m																															
-	Methyl tert-Butyl Ether	ug/l							<1			<1				<1		<1		<1		<1			<1							<1
-	Sum of Xylenes	ug/l							<2			<2				<2		<2		<2		<2			<2							<2
-		ug/l																														
-	1,1,1,2-Tetrachloroethane	ug/l							<1							<1				<1												
-	1,1,1-Trichloroethane	ug/l							<1							<1				<1												
-	1,1,2,2-Tetrachloroethane	ug/l							<1							<1				<1												
-	1,1,2-Trichloroethane	ug/l							<1							<1				<1												
-	1,1,2-Trichloroethylene (TCE)	ug/l							<1							<1				<1												
-	1,1-Dichloroethane	ug/l							<1							<1				<1												
-	1,1-Dichloroethylene	ug/l							<1							<1				<1												
-	1,1-Dichloro-1-propene	ug/l							<1							<1				<1												
-	1,2,3-Trichloropropane	ug/l							<1							<1				<1												
-	1,2,4-Trimethylbenzene	ug/l							<1							<1				<1												
0.4	1,2-Dibromoethane	ug/l							**<1**							**<1**				**<1**												
1000	1,2-Dichlorobenzene	ug/l							<1							<1				<1												
3	1,2-Dichloroethane	ug/l							<1							<1				<1												
0.1	1,2-Dichloropropane	ug/l							**<1**							**<1**				**<1**												
-	1,3,5-Trimethylbenzene	ug/l							<1							<1				<1												
-	1,3-Dichlorobenzene	ug/l							<1							<1				<1												
-	1,3-Dichloropropane	ug/l							<1							<1				<1												
80	1,4-Dichlorobenzene	ug/l							<1							<1				<1												
-	2,2-Dichloropropane	ug/l							<1							<1				<1												
-	2-Chlorotoluene	ug/l							<1							<1				<1												
-	4-Chlorotoluene	ug/l							<1							<1				<1												
1	Benzene	ug/l							<1							<1				<1												
-	Bromobenzene	ug/l							<1							<1				<1												
-	Bromochloromethane	ug/l							<1							<1				<1												
60	Bromodichloromethane	ug/l							<1							<1				<1												
100	Bromoform	ug/l							<1							<1				<1												
-	Bromomethane	ug/l							<1							<1				<1												
3	Carbon tetrachloride	ug/l							<1							<1				<1												
100	Chlorobenzene	ug/l							<1							<1				<1												
-	Chlorodibromomethane	ug/l							<1							<1				<1												
-	Chloroethane	ug/l							<1							<1				<1												
300	Chloroform	ug/l							<1							<1				<1												
-	Chloromethane	ug/l							<1							<1				<1												
-	cis-1,2-Dichloroethylene	ug/l							<1							<1				<1												
0.1	cis-1,3-Dichloropropene	ug/l							**<1**							**<1**				**<1**												
-	Dibromomethane	ug/l							<1							<1				<1												
-	Dichlorodifluoromethane	ug/l							<1							<1				<1												
20	Dichloromethane	ug/l							**<50**							**<50**				**<50**												
300	Ethylbenzene	ug/l							<1							<1				<1												
-	Isopropylbenzene	ug/l							<1							<1				<1												
-	M/p-Xylene	ug/l							<1							<1				<1												
-	n-Propylbenzene	ug/l							<1							<1				<1												
-	o-Xylene	ug/l							<1							<1				<1												
-	p-Isopropyltoluene	ug/l							<1							<1				<1												
-	Sec-Butylbenzene	ug/l							<1							<1				<1												
20	Styrene	ug/l							<1							<1				<1												
-	Tert-Butylbenzene	ug/l							<1							<1				<1												
-	Tetrachloroethylene (PCE)	ug/l							<1							<1				<1												
700	Toluene	ug/l							<1							<1				<1												
-	trans-1,2-Dichloroethylene	ug/l							<1							<1				<1												
-	trans-1,3-Dichloropropene	ug/l							<1							<1				<1												
-	Trichlorofluoromethane	ug/l							<1							<1				<1												
0.5	Vinyl Chloride	ug/l							<0.5							<0.5				<0.5												
10	Sum of TCE and PCE	ug/l							<2							<2				<2												
-																																
-	1,2,4-Trichlorobenzene	ug/l							<1							<1				<1												
1000	1,2-Dichlorobenzene	ug/l							<1							<1				<1												
-	1,3-Dichlorobenzene	ug/l							<1							<1				<1												
300	1,4-Dichlorobenzene	ug/l							<1							<1				<1												
-	2,4,5-Trichlorophenol	ug/l							<1							<1				<1												
200	2,4,6-Trichlorophenol	ug/l							<1							<1				<1												
-	2,4-Dichlorophenol	ug/l							<1							<1				<1												
-	2,4,-Dimethylphenol	ug/l							<1							<1				<1												
-	2,4,-Dinitrophenol	ug/l							<5							<5				<5												
-	2,4-Dinitrotoluene	ug/l							<1							<1				<1												
-	2,6-Dinitrotoluene	ug/l							<1							<1				<1												
-	2-Chloronaphthalene	ug/l							<1							<1				<1												
-	2-Chlorophenol	ug/l							<1							<1				<1												
-	2-Methylphenol	ug/l							<1							<1				<1												
-	2-Methyl naphthalene	ug/l							<1							<1				<1												
-	2-Nitroaniline	ug/l							<1							<1				<1												
-	2-Nitrophenol	ug/l							<1							<1				<1												
-	3-Nitroaniline	ug/l							<1							<1				<1												
-	3/4-Methylphenol	ug/l							<1							<1				<1												
-	4-Bromophenyl phenyl ether	ug/l							<1							<1				<1												
-	4-Chloro, 3-methylphenol	ug/l							<1							<1				<1												
-	4-Chloroaniline	ug/l							<1							<1				<1												
-	4-Chlorophenyl phenylether	ug/l							<1							<1				<1												
-	4-Nitroaniline	ug/l							<1							<1				<1												
-	4-Nitrophenol	ug/l							<1							<1				<1												
-	Acenaphthene	ug/l							<1							<1				<1												
-	Acenaphthylene	ug/l							<1							<1				<1												
-	Anthracene	ug/l							<1							<1				<1												
-	Azobenzene	ug/l							<1							<1				<1												
-	Benzo(a)anthracene	ug/l							<1							<1				<1												
0.01	Benzo(a)pyrene	ug/l							**<1**							**<1**				**<1**												
-	Benzo(b/k)fluoranthene	ug/l							<1							<1				<1												
-	Benzo(ghi)perylene	ug/l							<1							<1				<1												
-	Bis(2-chloroethoxy) methane	ug/l							<1							<1				<1												
-	Bis(2-chloroethyl)ether	ug/l							<1							<1				<1												
-	Bis(2-chloroisopropyl) ether	ug/l							<1							<1				<1												
-	Bis(2-ethylhexyl) phthalate	ug/l							<1							<1				<1												
-	Butyl benzyl phthalate	ug/l							<1							<1				<1												
-	Carbazole	ug/l							<1							<1				<1												
-	Chrysene	ug/l							<1							<1				<1												
-	Di-n-butyl phthalate	ug/l							<1							<1				<1												
-	Di-n-octyl phthalate	ug/l							<1							<1				<1												
-	Dibenz(ah)anthracene	ug/l							<1							<1				<1												
-	Dibenzofuran	ug/l							<1							<1				<1												
-	Diethyl phthalate	ug/l							<1							<1				<1												
-	Dimethyl phthalate	ug/l							<1							<1				<1												

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	Date	-	01/10/2013	21/10/2013	16/12/2013	01/10/2013	21/10/2013	16/09/2013	03/10/2013	25/10/2013	18/12/2013	01/10/2013	17/12/2013	05/09/2013	16/09/2013	03/10/2013	24/10/2013	28/11/2013	17/12/2013	16/09/2013	24/10/2013	28/11/2013	17/12/2013	01/10/2013	21/10/2013	17/12/2013	27/11/2013	27/11/2013	06/12/2013	09/12/2013	10/12/2013	11/12/2013	18/12/2013
	Sample ID	-	BH02	BH02	BH02	BH11	BH11	BH18A	BH18A	BH18A	BH18A	BH22	BH22	BH24	BH24	BH24	BH24	BH24	BH24	BH29	BH29	BH29	BH29	BH33	BH33	BH33	LDBH_01 (A)	LDBH_01 (B)	LDBH_01	LDBH_01	LDBH_01	LDBH_01	LDBH_01
	Depth	m																															
-	Fluoranthene	ug/l								<1							<1				<1												
-	Fluorene	ug/l								<1							<1				<1												
0.1	Hexachlorobenzene	ug/l								**<1**							**<1**				**<1**												
0.6	Hexachlorobutadiene	ug/l								**<1**							**<1**				**<1**												
-	Hexachlorocyclopentadiene	ug/l								<5							<5				<5												
-	Hexachloroethane	ug/l								<5							<5				<5												
-	Indeno(1,2,3,cd)pyrene	ug/l								<1							<1				<1												
-	Isophorone	ug/l								<1							<1				<1												
-	Naphthalene	ug/l								<1							<1				<1												
-	Nitrobenzene	ug/l								<1							<1				<1												
0.1	Pentachlorophenol	ug/l								**<1**							**<1**				**<1**												
-	Phenanthrene	ug/l								<1							<1				<1												
0.5	Phenol	ug/l								**<5**							**<5**				**<5**												
-	Pyrene	ug/l								<1							<1				<1												
-																																	
-	PCB 101	ug/l								<0.005							<0.005																
-	PCB 118	ug/l								<0.005							<0.005																
-	PCB 138	ug/l								<0.005							<0.005																
-	PCB 153	ug/l								<0.005							<0.005																
-	PCB 180	ug/l								<0.005							<0.005																
-	PCB 28	ug/l								<0.005							<0.005																
-	PCB 52	ug/l								<0.005							<0.005																
0.5	Sum of PCBs	ug/l								<0.035							<0.035																

Substance		Screening Criteria		Number of Analyses	Reported Minimum Value	Reported Maximum Value	Statistical Mean	Standard Deviation	Number of Exceedances
		-	-						-
pH		6.5-10	UK DWS	31	6.9	11.9	7.74	1.38	0
		-	-						-
Arsenic	ug/l	10	UK DWS	30	17	320	87.2	73.3	30
Boron	ug/l	1000	UK DWS	30	63	2100	1452	694	21
Cadmium	ug/l	5	UK DWS	30	<0.02	0.89	0.077	0.16	0
Chromium (total)	ug/l	50	UK DWS	30	1	78	18.8	18.7	3
Chromium (III)	ug/l	-	-	30	<3	78	17.8	18.4	-
Chromium (VI)	ug/l	-	-	30	<3	17	3.83	3.2	-
Copper	ug/l	2000	UK DWS	30	12	4500	536	1119	2
Lead	ug/l	10	UK DWS	30	<0.3	17	1.56	3.84	2
Mercury	ug/l	1	UK DWS	30	<0.05	0.28	0.07	0.051	0
Nickel	ug/l	20	UK DWS	30	5	57	27	13.8	20
Selenium	ug/l	10	UK DWS	30	<0.5	210	38.2	61.6	11
Zinc	ug/l	5000	UK DWS	30	<2	78	14.9	18.8	0
		-	-						-
Calcium	ug/l	250000	UK DWS	31	53000	3.50E+05	2.10E+05	64510	7
Magnesium	ug/l	-	-	31	<100	6.30E+05	4.02E+05	2.32E+05	-
Potassium	ug/l	-	-	31	62000	8.20E+05	2.00E+05	1.33E+05	-
Sodium	ug/l	-	-	31	2.80E+05	5.40E+06	3.14E+06	1.44E+06	-
Iron (dissolved)	ug/l	200	UK DWS	26	<10	3300	355	686	11
Iron (total)	ug/l	200	UK DWS	26	2700	54000	11462	12461	26
Manganese (dissolved)	ug/l	50	UK DWS	26	<10	2500	648	518	24
Manganese (total)	ug/l	50	UK DWS	26	110	3300	737	649	26
		-	-						-
Nitrate	mg/l	50	UK DWS	31	<0.5	10	1.29	2.46	0
Nitrite	mg/l	0.5	UK DWS	31	<0.1	5.2	0.4	1.06	3
TON	mg/l	-	-	31	<0.1	3.2	0.38	0.82	-
Sulphate	mg/l	250	UK DWS	30	1.8	1500	850	496	23
Sulphide	mg/l	-	-	30	<0.05	0.05	0.05	2.12E-17	-
Sulphur	mg/l	-	-	30	4.3	520	324	182	-
Chloride	mg/l	250	UK DWS	31	79	11000	6957	3185	30
Ammoniacal Nitrogen as N	mg/l	0.39	UK DWS	30	0.32	28	6.15	7.7	29
Ammoniacal Nitrogen as NH4	mg/l	0.5	UK DWS	30	0.39	37	7.97	10	29
Total Suspended Solids	mg/l	-	-	31	<10	660	132	164	-
Electrical Conductivity	uS/cm	2500	UK DWS	31	3000	28000	20574	7708	31
Total Alkalinity as CaCO3	mg/l	-	-	9	160	350	210	59.6	-
		-	-						-
Phenols (total)	ug/l	0.5	UK DWS	30	<0.5	4.4	0.78	0.78	9
Cyanide (total)	ug/l	50	UK DWS	30	<10	150	20.4	28	2
Cyanide (free)	ug/l	50	UK DWS	30	<10	31	11.9	5.3	0
		-	-						-
Acenaphthene	ug/l	-	-	30	<0.01	0.05	0.013	0.0088	-
Acenaphthylene	ug/l	-	-	30	<0.01	0.23	0.02	0.04	-
Anthracene	ug/l	-	-	30	<0.01	0.06	0.013	0.0099	-
Benzo(a)anthracene	ug/l	-	-	30	<0.01	0.04	0.013	0.0075	-
Benzo(a)pyrene	ug/l	0.01	UK DWS	30	<0.01	<0.1	0.019	0.023	8
Benzo(b)fluoranthene	ug/l	-	-	30	<0.01	<0.1	0.018	0.023	-
Benzo(ghi)perylene	ug/l	-	-	30	<0.01	<0.1	0.017	0.023	-
Benzo(k)fluoranthene	ug/l	-	-	30	<0.01	<0.1	0.018	0.023	-
Chrysene	ug/l	-	-	30	<0.01	0.03	0.013	0.0064	-
Dibenzo(ah)anthracene	ug/l	-	-	30	<0.01	<0.1	0.018	0.023	-
Fluoranthene	ug/l	-	-	30	<0.01	0.17	0.023	0.035	-
Fluorene	ug/l	-	-	30	<0.01	0.09	0.015	0.015	-
Indeno(1,2,3cd)pyrene	ug/l	-	-	30	<0.01	<0.1	0.019	0.023	-
Naphthalene	ug/l	-	-	30	<0.01	3.3	0.19	0.6	-
Phenanthrene	ug/l	-	-	30	<0.01	0.19	0.026	0.041	-
Pyrene	ug/l	-	-	30	<0.01	0.12	0.022	0.031	-
Polyaromatic Hydrocarbons (Total)	ug/l	-	-	30	<0.01	4.1	0.31	0.74	-
Sum of 4No. PAHs	ug/l	0.1	UK DWS	30	<0.04	<0.4	0.072	0.091	3
Sum of benzo(b) and benzo(k)fluoranthene	ug/l	-	-	30	<0.02	<0.2	0.036	0.046	-
Sum of indeno(123cd)pyrene and benzo(ghi)perylene	ug/l	-	-	30	<0.02	<0.2	0.036	0.045	-
	ug/l	-	-						-
TPH (C8-C10)	ug/l	10	UK DWS	25	<10	<10	10	0	0
TPH (C10-C12)	ug/l	10	UK DWS	25	<10	13	10.1	0.6	1
TPH (C12-C16)	ug/l	10	UK DWS	25	<10	100	13.7	18	3
TPH (C16-C21)	ug/l	10	UK DWS	25	<10	32	11.8	5.1	5
TPH (C21-C35)	ug/l	10	UK DWS	25	<10	160	22.8	31.5	8
TPH (C35-C40)	ug/l	10	UK DWS	25	<10	21	10.4	2.2	1
Total TPH (C8-C40)	ug/l	-	-	25	<10	220	31.6	47.8	-
		-	-						-
TPH Aliphatics >C5-C6	ug/l	10	UK DWS	6	<10	<10	10	0	0
TPH Aliphatics >C6-C8	ug/l	10	UK DWS	6	<10	<10	10	0	0
TPH Aliphatics >C8-C10	ug/l	10	UK DWS	6	<10	<10	10	0	0
TPH Aliphatics >C10-C12	ug/l	10	UK DWS	6	<10	180	38.3	69.4	1
TPH Aliphatics >C12-C16	ug/l	10	UK DWS	6	<10	1300	225	527	1
TPH Aliphatics >C16-C21	ug/l	10	UK DWS	6	<10	4800	811	1954	3
TPH Aliphatics >C21-C35	ug/l	10	UK DWS	6	<10	25000	4192	10194	3
TPH Aliphatics >C35-C44	ug/l	10	UK DWS	6	<10	1700	292	690	1
TPH Total Aliphatics (C5-C44)	ug/l	-	-	3	50	33000	11053	19006	-
		-	-						-
TPH Aromatics >C6-C7	ug/l	10	UK DWS	6	<10	<10	10	0	0
TPH Aromatics >C7-C8	ug/l	10	UK DWS	6	<10	<10	10	0	0
TPH Aromatics >C8-C10	ug/l	10	UK DWS	6	<10	<10	10	0	0
TPH Aromatics >C10-C12	ug/l	10	UK DWS	6	<10	27	12.8	6.94	1
TPH Aromatics >C12-C16	ug/l	10	UK DWS	6	<10	220	48.5	84.4	2
TPH Aromatics >C16-C21	ug/l	10	UK DWS	6	<10	600	137	237	2
TPH Aromatics >C21-C35	ug/l	10	UK DWS	6	<10	3900	873	1570	2
TPH Aromatics >C35-C44	ug/l	10	UK DWS	6	<10	320	83.3	127	2
TPH Total Aromatics (C6-C44)	ug/l	-	-	3	<10	5100	2270	2592	-
		-	-						-
TPH Total (Aliphatics and Aromatics)	ug/l	-	-	3	110	38000	13270	21432	-
		-	-						-
Benzene	ug/l	1	UK DWS	8	<1	<1	1	0	0
Ethylbenzene	ug/l	300	WHO DWS 2011	8	<1	<1	1	0	0
Toluene	ug/l	700	WHO DWS 2011	8	<1	<1	1	0	0
Meta/Para-Xylene	ug/l	-	-	8	<1	<1	1	0	-
Ortho-Xylene	ug/l	-	-	8	<1	<1	1	0	-
Methyl tert-Butyl Ether	ug/l	-	-	8	<1	<1	1	0	-
Sum of Xylenes	ug/l	-	-	8	<2	<2	2	0	-
	ug/l	-	-						-
1,1,1,2-Tetrachloroethane	ug/l	-	-	3	<1	<1	1	0	-
1,1,1-Trichloroethane	ug/l	-	-	3	<1	<1	1	0	-
1,1,2,2-Tetrachloroethane	ug/l	-	-	3	<1	<1	1	0	-
1,1,2-Trichloroethane	ug/l	-	-	3	<1	<1	1	0	-
1,1,2-Trichloroethylene (TCE)	ug/l	-	-	3	<1	<1	1	0	-
1,1-Dichloroethane	ug/l	-	-	3	<1	<1	1	0	-
1,1-Dichloroethylene	ug/l	-	-	3	<1	<1	1	0	-
1,1-Dichloro-1-propene	ug/l	-	-	3	<1	<1	1	0	-
1,2,3-Trichloropropane	ug/l	-	-	3	<1	<1	1	0	-
1,2,4-Trimethylbenzene	ug/l	-	-	3	<1	<1	1	0	-
1,2-Dibromoethane	ug/l	0.4	UK DWS	3	<1	<1	1	0	3
1,2-Dichlorobenzene	ug/l	1000	WHO DWS 2011	3	<1	<1	1	0	0
1,2-Dichloroethane	ug/l	3	UK DWS	3	<1	<1	1	0	0
1,2-Dichloropropane	ug/l	0.1	UK DWS	3	<1	<1	1	0	3
1,3,5-Trimethylbenzene	ug/l	-	-	3	<1	<1	1	0	-

Grontmij Limited

Substance		Screening Criteria		Number of Analyses	Reported Minimum Value	Reported Maximum Value	Statistical Mean	Standard Deviation	Number of Exceedances
1,3-Dichlorobenzene	ug/l	-	-	3	<1	<1	1	0	-
1,3-Dichloropropane	ug/l	-	-	3	<1	<1	1	0	-
1,4-Dichlorobenzene	ug/l	80	UK DWS	3	<1	<1	1	0	0
2,2-Dichloropropane	ug/l	-	-	3	<1	<1	1	0	-
2-Chlorotoluene	ug/l	-	-	3	<1	<1	1	0	-
4-Chlorotoluene	ug/l	-	-	3	<1	<1	1	0	-
Benzene	ug/l	1	UK DWS	3	<1	<1	1	0	0
Bromobenzene	ug/l	-	-	3	<1	<1	1	0	-
Bromochloromethane	ug/l	-	-	3	<1	<1	1	0	-
Bromodichloromethane	ug/l	60	WHO DWS 2011	3	<1	<1	1	0	0
Bromoform	ug/l	100	WHO DWS 2011	3	<1	<1	1	0	0
Bromomethane	ug/l	-	-	3	<1	<1	1	0	-
Carbon tetrachloride	ug/l	3	UK DWS	3	<1	<1	1	0	0
Chlorobenzene	ug/l	100	UK DWS	3	<1	<1	1	0	0
Chlorodibromomethane	ug/l	-	-	3	<1	<1	1	0	-
Chloroethane	ug/l	-	-	3	<1	<1	1	0	-
Chloroform	ug/l	300	WHO DWS 2011	3	<1	<1	1	0	0
Chloromethane	ug/l	-	-	3	<1	<1	1	0	-
cis-1,2-Dichloroethylene	ug/l	-	-	3	<1	<1	1	0	-
cis-1,3-Dichloropropene	ug/l	0.1	UK DWS	3	<1	<1	1	0	3
Dibromomethane	ug/l	-	-	3	<1	<1	1	0	-
Dichlorodifluoromethane	ug/l	-	-	3	<1	<1	1	0	-
Dichloromethane	ug/l	20	WHO DWS 2011	3	<50	<50	50	0	3
Ethylbenzene	ug/l	300	WHO DWS 2011	3	<1	<1	1	0	0
Isopropylbenzene	ug/l	-	-	3	<1	<1	1	0	-
M/p-Xylene	ug/l	-	-	3	<1	<1	1	0	-
n-Propylbenzene	ug/l	-	-	3	<1	<1	1	0	-
o-Xylene	ug/l	-	-	3	<1	<1	1	0	-
p-Isopropyltoluene	ug/l	-	-	3	<1	<1	1	0	-
Sec-Butylbenzene	ug/l	-	-	3	<1	<1	1	0	-
Styrene	ug/l	20	WHO DWS 2011	3	<1	<1	1	0	0
Tert-Butylbenzene	ug/l	-	-	3	<1	<1	1	0	-
Tetrachloroethylene (PCE)	ug/l	-	-	3	<1	<1	1	0	-
Toluene	ug/l	700	WHO DWS 2011	3	<1	<1	1	0	0
trans-1,2-Dichloroethylene	ug/l	-	-	3	<1	<1	1	0	-
trans-1,3-Dichloropropene	ug/l	-	-	3	<1	<1	1	0	-
Trichlorofluoromethane	ug/l	-	-	3	<1	<1	1	0	-
Vinyl Chloride	ug/l	0.5	UK DWS	3	<0.5	<0.5	0.5	0	0
Sum of TCE and PCE	ug/l	10	UK DWS	3	<2	<2	2	0	0
		-	-						-
1,2,4-Trichlorobenzene	ug/l	-	-	3	<1	<1	1	0	-
1,2-Dichlorobenzene	ug/l	1000	WHO DWS 2011	3	<1	<1	1	0	0
1,3-Dichlorobenzene	ug/l	-	-	3	<1	<1	1	0	-
1,4-Dichlorobenzene	ug/l	300	WHO DWS 2011	3	<1	<1	1	0	0
2,4,5-Trichlorophenol	ug/l	-	-	3	<1	<1	1	0	-
2,4,6-Trichlorophenol	ug/l	200	WHO DWS 2011	3	<1	<1	1	0	0
2,4-Dichlorophenol	ug/l	-	-	3	<1	<1	1	0	-
2,4,-Dimethylphenol	ug/l	-	-	3	<1	<1	1	0	-
2,4,-Dinitrophenol	ug/l	-	-	3	<5	<5	5	0	-
2,4-Dinitrotoluene	ug/l	-	-	3	<1	<1	1	0	-
2,6-Dinitrotoluene	ug/l	-	-	3	<1	<1	1	0	-
2-Chloronaphthalene	ug/l	-	-	3	<1	<1	1	0	-
2-Chlorophenol	ug/l	-	-	3	<1	<1	1	0	-
2-Methylphenol	ug/l	-	-	3	<1	<1	1	0	-
2-Methyl naphthalene	ug/l	-	-	3	<1	<1	1	0	-
2-Nitroaniline	ug/l	-	-	3	<1	<1	1	0	-
2-Nitrophenol	ug/l	-	-	3	<1	<1	1	0	-
3-Nitroaniline	ug/l	-	-	3	<1	<1	1	0	-
3/4-Methylphenol	ug/l	-	-	3	<1	<1	1	0	-
4-Bromophenyl phenyl ether	ug/l	-	-	3	<1	<1	1	0	-
4-Chloro, 3-methylphenol	ug/l	-	-	3	<1	<1	1	0	-
4-Chloroaniline	ug/l	-	-	3	<1	<1	1	0	-
4-Chlorophenyl phenylether	ug/l	-	-	3	<1	<1	1	0	-
4-Nitroaniline	ug/l	-	-	3	<1	<1	1	0	-
4-Nitrophenol	ug/l	-	-	3	<1	<1	1	0	-
Acenaphthene	ug/l	-	-	3	<1	<1	1	0	-
Acenaphthylene	ug/l	-	-	3	<1	<1	1	0	-
Anthracene	ug/l	-	-	3	<1	<1	1	0	-
Azobenzene	ug/l	-	-	3	<1	<1	1	0	-
Benzo(a)anthracene	ug/l	-	-	3	<1	<1	1	0	-
Benzo(a)pyrene	ug/l	0.01	UK DWS	3	<1	<1	1	0	3
Benzo(b/k)fluoranthene	ug/l	-	-	3	<1	<1	1	0	-
Benzo(ghi)perylene	ug/l	-	-	3	<1	<1	1	0	-
Bis(2-chloroethoxy) methane	ug/l	-	-	3	<1	<1	1	0	-
Bis(2-chloroethyl)ether	ug/l	-	-	3	<1	<1	1	0	-
Bis(2-chloroisopropyl) ether	ug/l	-	-	3	<1	<1	1	0	-
Bis(2-ethylhexyl) phthalate	ug/l	-	-	3	<1	<1	1	0	-
Butyl benzyl phthalate	ug/l	-	-	3	<1	<1	1	0	-
Carbazole	ug/l	-	-	3	<1	<1	1	0	-
Chrysene	ug/l	-	-	3	<1	<1	1	0	-
Di-n-butyl phthalate	ug/l	-	-	3	<1	<1	1	0	-
Di-n-octyl phthalate	ug/l	-	-	3	<1	<1	1	0	-
Dibenz(ah)anthracene	ug/l	-	-	3	<1	<1	1	0	-
Dibenzofuran	ug/l	-	-	3	<1	<1	1	0	-
Diethyl phthalate	ug/l	-	-	3	<1	<1	1	0	-
Dimethyl phthalate	ug/l	-	-	3	<1	<1	1	0	-
Fluoranthene	ug/l	-	-	3	<1	<1	1	0	-
Fluorene	ug/l	-	-	3	<1	<1	1	0	-
Hexachlorobenzene	ug/l	0.1	UK DWS	3	<1	<1	1	0	3
Hexachlorobutadiene	ug/l	0.6	WHO DWS 2011	3	<1	<1	1	0	3
Hexachlorocyclopentadiene	ug/l	-	-	3	<5	<5	5	0	-
Hexachloroethane	ug/l	-	-	3	<5	<5	5	0	-
Indeno(1,2,3,cd)pyrene	ug/l	-	-	3	<1	<1	1	0	-
Isophorone	ug/l	-	-	3	<1	<1	1	0	-
Naphthalene	ug/l	-	-	3	<1	<1	1	0	-
Nitrobenzene	ug/l	-	-	3	<1	<1	1	0	-
Pentachlorophenol	ug/l	0.1	UK DWS	3	<1	<1	1	0	3
Phenanthrene	ug/l	-	-	3	<1	<1	1	0	-
Phenol	ug/l	0.5	UK DWS	3	<5	<5	5	0	3
Pyrene	ug/l	-	-	3	<1	<1	1	0	-
		-	-						-
PCB 101	ug/l	-	-	2	<0.005	<0.005	0.005	0	-
PCB 118	ug/l	-	-	2	<0.005	<0.005	0.005	0	-
PCB 138	ug/l	-	-	2	<0.005	<0.005	0.005	0	-
PCB 153	ug/l	-	-	2	<0.005	<0.005	0.005	0	-
PCB 180	ug/l	-	-	2	<0.005	<0.005	0.005	0	-
PCB 28	ug/l	-	-	2	<0.005	<0.005	0.005	0	-
PCB 52	ug/l	-	-	2	<0.005	<0.005	0.005	0	-
Sum of PCBs	ug/l	0.5	UK DWS	2	<0.035	<0.035	0.035	0	0

Multiplier:			**1 x"<"**	**A63 Castle Street - GROUNDWATER DUPLICATES DWS**				
		Strata						
		Observed Contamination						
		Sample Description						
		Date	-	ROUND 1 02/10/2013	ROUND 2 24/10/2013	ROUND 2 25/10/2013	ROUND 2 21/10/2013	ROUND 2 22/10/2013
		Sample ID	-	**D1**	**D5**	**D6**	**D3**	**D4**
		Depth	m	(BH28)	(BH47)	(BH18A)	(BH02)	(BH46)
Screening Level	**Substance**		**Units**					
-								
6.5-10	pH			6.8	6.9	7.3	7.1	7.5
-								
10	Arsenic		ug/l	**63**	**160**	**130**	**59**	**20**
1000	Boron		ug/l	460	1000	**1400**	**2000**	1000
5	Cadmium		ug/l	0.03	<0.02	0.06	<0.02	<0.02
50	Chromium (total)		ug/l	47	37	9	5	8
-	Chromium (III)		ug/l	47	37	9	5	8
-	Chromium (VI)		ug/l	<3	<3	<3	<3	<3
2000	Copper		ug/l	210	430	570	220	20
10	Lead		ug/l	<0.3	<0.3	<0.3	<0.3	<0.3
1	Mercury		ug/l	<0.05	<0.05	<0.05	<0.05	<0.05
20	Nickel		ug/l	**40**	18	**32**	**28**	5
10	Selenium		ug/l	<0.5	<0.5	<0.5	**130**	**29**
5000	Zinc		ug/l	3	4	9	3	<2
-								
250000	Calcium		ug/l	**380000**	**290000**	**360000**	220000	150000
-	Magnesium		ug/l	330000	420000	480000	560000	150000
-	Potassium		ug/l	88000	120000	210000	230000	110000
-	Sodium		ug/l	2600000	3200000	4300000	4500000	850000
200	Iron (dissolved)		ug/l	**2000**	**370**	**210**	56	74
200	Iron (total)		ug/l	**130000**	**16000**	**4400**	**6500**	**54000**
50	Manganese (dissolved)		ug/l	**2500**	**1100**	**330**	**1400**	**450**
50	Manganese (total)		ug/l	**6500**	**1200**	**360**	**1400**	**1700**
-								
50	Nitrate		mg/l	<0.5	0.8	1	<0.5	<0.5
0.5	Nitrite		mg/l	<0.1	<0.1	<0.1	<0.1	<0.1
-	TON		mg/l	<0.1	0.2	0.2	<0.1	<0.1
250	Sulphate		mg/l	63	<0.5	**840**	**1100**	<0.5
-	Sulphide		mg/l	<0.05	<0.05	<0.05	<0.05	<0.05
-	Sulphur		mg/l	20	1.3	390	470	7.2
250	Chloride		mg/l	**6700**	**5200**	**6000**	**7300**	66
0.39	Ammoniacal Nitrogen as N		mg/l	**30**	**26**	**2.3**	**1.8**	**15**
0.5	Ammoniacal Nitrogen as NH4		mg/l	**38**	**33**	**3**	**2.3**	**19**
-	Total Suspended Solids		mg/l	26	130	55	77	2200
2500	Electrical Conductivity		uS/cm	**18000**	**21000**	**25000**	**23000**	**6300**
-	Total Alkalinity as CaCO3		mg/l		-	-		
-								
0.5	Phenols (total)		ug/l	<0.5	**0.7**	**0.7**	<0.5	**0.7**
50	Cyanide (total)		ug/l	<10	<10	<10	<10	<10
50	Cyanide (free)		ug/l	<10	<10	<10	<10	<10
-								
-	Acenaphthene		ug/l	<0.01	<0.01	<0.01	<0.01	<0.01
-	Acenaphthylene		ug/l	<0.01	<0.01	<0.01	<0.01	<0.01
-	Anthracene		ug/l	<0.01	<0.01	<0.01	<0.01	<0.01
-	Benzo(a)anthracene		ug/l	<0.01	<0.01	<0.01	<0.01	<0.01
0.01	Benzo(a)pyrene		ug/l	<0.01	<0.01	<0.01	**<0.10**	<0.01
-	Benzo(b)fluoranthene		ug/l	0.01	<0.01	<0.01	<0.10	<0.01
-	Benzo(ghi)perylene		ug/l	0.01	<0.01	<0.01	<0.10	<0.01
-	Benzo(k)fluoranthene		ug/l	<0.01	<0.01	<0.01	<0.10	<0.01
-	Chrysene		ug/l	0.01	<0.01	<0.01	<0.01	<0.01
-	Dibenzo(ah)anthracene		ug/l	<0.01	<0.01	<0.01	<0.10	<0.01
-	Fluoranthene		ug/l	0.01	<0.01	<0.01	<0.01	<0.01
-	Fluorene		ug/l	<0.01	<0.01	<0.01	<0.01	<0.01
-	Indeno(1,2,3cd)pyrene		ug/l	<0.01	<0.01	<0.01	<0.10	<0.01
-	Naphthalene		ug/l	0.16	0.02	0.02	0.08	0.15
-	Phenanthrene		ug/l	0.02	<0.01	<0.01	<0.01	<0.01
-	Pyrene		ug/l	0.01	<0.01	<0.01	<0.01	<0.01
-	Polyaromatic Hydrocarbons (Total)		ug/l	0.23	0.02	0.02	<0.10	0.15
0.1	Sum of 4No. PAHs		ug/l	<0.04	<0.04	<0.04	**<0.4**	<0.04
-	Sum of benzo(b) and benzo(k)fluoranthene		ug/l	<0.02	<0.02	<0.02	<0.2	<0.02
-	Sum of indeno(123cd)pyrene and benzo(ghi)perylene		ug/l	<0.02	<0.02	<0.02	<0.2	<0.02
-			ug/l					
10	TPH (C8-C10)		ug/l	<10	<10	<10	<10	<10
10	TPH (C10-C12)		ug/l	<10	**15**	<10	<10	<10
10	TPH (C12-C16)		ug/l	<10	<10	<10	<10	<10
10	TPH (C16-C21)		ug/l	<10	**12**	**30**	**24**	**45**
10	TPH (C21-C35)		ug/l	<10	10	**53**	<10	**120**
10	TPH (C35-C40)		ug/l	<10	<10	10	<10	**15**
-	Total TPH (C8-C40)		ug/l	<10	40	90	20	180

Substance		Screening Criteria		Number of Analyses	Reported Minimum Value	Reported Maximum Value	Statistical Mean	Standard Deviation	Number of Exceedances
		-	-						-
pH		6.5-10	UK DWS	5	6.8	7.5	7.12	0.29	0
		-	-						-
Arsenic	ug/l	10	UK DWS	5	20	160	86.4	57.1	5
Boron	ug/l	1000	UK DWS	5	460	2000	1172	571	2
Cadmium	ug/l	5	UK DWS	5	<0.02	0.06	0.03	0.017	0
Chromium (total)	ug/l	50	UK DWS	5	5	47	21.2	19.4	0
Chromium (III)	ug/l	-	-	5	5	47	21.2	19.4	-
Chromium (VI)	ug/l	-	-	5	<3	<3	3	0	-
Copper	ug/l	2000	UK DWS	5	20	570	290	213	0
Lead	ug/l	10	UK DWS	5	<0.3	<0.3	0.3	0	0
Mercury	ug/l	1	UK DWS	5	<0.05	<0.05	0.05	0	0
Nickel	ug/l	20	UK DWS	5	5	40	24.6	13.5	3
Selenium	ug/l	10	UK DWS	5	<0.5	130	32.1	56.1	2
Zinc	ug/l	5000	UK DWS	5	<2	9	4.2	2.77	0
		-	-						-
Calcium	ug/l	250000	UK DWS	5	1.50E+05	3.80E+05	2.80E+05	96177	3
Magnesium	ug/l	-	-	5	1.50E+05	5.60E+05	3.88E+05	1.57E+05	-
Potassium	ug/l	-	-	5	88000	2.30E+05	1.52E+05	63897	-
Sodium	ug/l	-	-	5	8.50E+05	4.50E+06	3.09E+06	1.48E+06	-
Iron (dissolved)	ug/l	200	UK DWS	5	56	2000	542	825	3
Iron (total)	ug/l	200	UK DWS	5	4400	1.30E+05	42180	53004	5
Manganese (dissolved)	ug/l	50	UK DWS	5	330	2500	1156	873	5
Manganese (total)	ug/l	50	UK DWS	5	360	6500	2232	2437	5
		-	-						-
Nitrate	mg/l	50	UK DWS	5	<0.5	1	0.66	0.23	0
Nitrite	mg/l	0.5	UK DWS	5	<0.1	<0.1	0.1	0	0
TON	mg/l	-	-	5	<0.1	0.2	0.14	0.055	-
Sulphate	mg/l	250	UK DWS	5	<0.5	1100	401	528	2
Sulphide	mg/l	-	-	5	<0.05	<0.05	0.05	0	-
Sulphur	mg/l	-	-	5	1.3	470	178	232	-
Chloride	mg/l	250	UK DWS	5	66	7300	5053	2896	4
Ammoniacal Nitrogen as N	mg/l	0.39	UK DWS	5	1.8	30	15	13.1	5
Ammoniacal Nitrogen as NH4	mg/l	0.5	UK DWS	5	2.3	38	19.1	16.5	5
Total Suspended Solids	mg/l	-	-	5	26	2200	498	952	-
Electrical Conductivity	uS/cm	2500	UK DWS	5	6300	25000	18660	7378	5
Total Alkalinity as CaCO3	mg/l	-	-						-
		-	-						-
Phenols (total)	ug/l	0.5	UK DWS	5	<0.5	0.7	0.62	0.11	3
Cyanide (total)	ug/l	50	UK DWS	5	<10	<10	10	0	0
Cyanide (free)	ug/l	50	UK DWS	5	<10	<10	10	0	0
		-	-						-
Acenaphthene	ug/l	-	-	5	<0.01	<0.01	0.01	0	-
Acenaphthylene	ug/l	-	-	5	<0.01	<0.01	0.01	0	-
Anthracene	ug/l	-	-	5	<0.01	<0.01	0.01	0	-
Benzo(a)anthracene	ug/l	-	-	5	<0.01	<0.01	0.01	0	-
Benzo(a)pyrene	ug/l	0.01	UK DWS	5	<0.01	<0.1	0.028	0.04	1
Benzo(b)fluoranthene	ug/l	-	-	5	<0.01	<0.1	0.028	0.04	-
Benzo(ghi)perylene	ug/l	-	-	5	<0.01	<0.1	0.028	0.04	-
Benzo(k)fluoranthene	ug/l	-	-	5	<0.01	<0.1	0.028	0.04	-
Chrysene	ug/l	-	-	5	<0.01	0.01	0.01	0	-
Dibenzo(ah)anthracene	ug/l	-	-	5	<0.01	<0.1	0.028	0.04	-
Fluoranthene	ug/l	-	-	5	<0.01	0.01	0.01	0	-
Fluorene	ug/l	-	-	5	<0.01	<0.01	0.01	0	-
Indeno(1,2,3cd)pyrene	ug/l	-	-	5	<0.01	<0.1	0.028	0.04	-
Naphthalene	ug/l	-	-	5	0.02	0.16	0.086	0.068	-
Phenanthrene	ug/l	-	-	5	<0.01	0.02	0.012	0.0045	-
Pyrene	ug/l	-	-	5	<0.01	0.01	0.01	0	-
Polyaromatic Hydrocarbons (Total)	ug/l	-	-	5	0.02	0.23	0.1	0.09	-
Sum of 4No. PAHs	ug/l	0.1	UK DWS	5	<0.04	<0.4	0.11	0.16	1
Sum of benzo(b) and benzo(k)fluoranthene	ug/l	-	-	5	<0.02	<0.2	0.056	0.08	-
Sum of indeno(123cd)pyrene and benzo(ghi)perylene	ug/l	-	-	5	<0.02	<0.2	0.056	0.08	-
	ug/l	-	-						-
TPH (C8-C10)	ug/l	10	UK DWS	5	<10	<10	10	0	0
TPH (C10-C12)	ug/l	10	UK DWS	5	<10	15	11	2.24	1
TPH (C12-C16)	ug/l	10	UK DWS	5	<10	<10	10	0	0
TPH (C16-C21)	ug/l	10	UK DWS	5	<10	45	24.2	14.3	4
TPH (C21-C35)	ug/l	10	UK DWS	5	<10	120	40.6	48.1	2
TPH (C35-C40)	ug/l	10	UK DWS	5	<10	15	11	2.24	1
Total TPH (C8-C40)	ug/l	-	-	5	<10	180	68	69.8	-

Appendix H3b: Groundwater (controlled waters – EQS)

Grontmij Limited

Multiplier:	1	x"<"	A63 Castle Street - GROUNDWATER SUPERFICIAL EQS																												
	Strata		Till	Till	Clay	Clay	Clay	Till	Till	Till	Alluvium	Alluvium	Alluvium	Clay	Clay	Alluvium	Alluvium	Alluvium	Alluvium	Alluvium	Alluvium	Clay	Clay	Clay	Clay	Clay	Clay	Till	Till	Till	Alluvium
	Observed Contamination		ROUND 1	ROUND 2	ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 2	ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 2	ROUND 3	ROUND 1
	Sample Description																														
	Date		03/10/2013	24/10/2013	03/10/2013	24/10/2013	17/12/2013	01/10/2013	21/10/2013	16/12/2013	03/10/2013	24/10/2013	17/12/2013	03/10/2013	24/10/2013	01/10/2013	21/10/2013	17/12/2013	01/10/2013	21/10/2013	16/12/2013	01/10/2013	21/10/2013	16/12/2013	03/10/2013	25/10/2013	18/12/2013	03/10/2013	25/10/2013	18/12/2013	01/10/2013
	Sample ID		BH01	BH01	BH03	BH03	BH03	BH04	BH04	BH04	BH05	BH05	BH05	BH06	BH06	BH07	BH07	BH07	BH12	BH12	BH12	BH13	BH13	BH13	BH14	BH14	BH14	BH15	BH15	BH15	BH19A
	Depth	m																													
Screening Level	**Substance**	**Units**																													
-																															
-	pH		7.1	7.1	7.1	6.9	7.1	7.4	7.2	6.8	7.2	7.2	7.4	7.2	6.8	7.6	7.5	7.4	7.9	8	7.7	7.4	7	6.7	6.9	7	6.9	7.3	7	6.8	8
-																															
25	Arsenic	ug/l	**52**	**160**	**69**	**200**	**40**	**48**	**66**	**58**	**66**	**140**	**43**	**70**	**170**	**79**	**30**	18	**68**	18	**31**	**42**	**52**	**64**	**55**	1.1	**30**	**66**	1.2	**36**	**53**
7000	Boron	ug/l	1400	1600	1900	1600	1800	460	530	480	1300	1400	1500	1500	1100	1800	1600	820	1900	1300	1300	330	250	250	390	51	700	1100	48	680	1600
0.2	Cadmium	ug/l	0.05	0.03	0.06	0.07	0.02	0.03	<0.02	<0.02	0.04	0.04	<0.02	0.04	0.04	0.03	<0.02	<0.02	0.02	<0.02	<0.02	0.18	<0.02	<0.02	0.04	0.03	**0.41**	0.03	0.02	0.19	<0.02
-	Chromium (total)	ug/l	47	19	15	12	2	29	6	23	56	19	16	23	14	61	7	27	17	5	38	54	7	37	44	6	2	63	3	3	91
4.7	Chromium (III)	ug/l	**47**	**19**	**15**	**12**	<3	**29**	**6**	**23**	**56**	**19**	**16**	**19**	**14**	**61**	**7**	**27**	**17**	**5**	**38**	**51**	**7**	**37**	**44**	**6**	<3	**63**	3	3	**91**
0.6	Chromium (VI)		**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**4**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**
5	Copper	ug/l	**93**	**300**	**290**	**700**	**370**	**3900**	**680**	**200**	**200**	**220**	**100**	**390**	**390**	**120**	**17**	4	**6500**	4.4	**18**	**2600**	**55**	**160**	**320**	<0.5	**290**	**180**	0.8	**290**	**68**
7.2	Lead	ug/l	0.7	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.5	<0.3	<0.3	<0.3	0.4	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3
0.05	Mercury	ug/l	**0.07**	<0.05	<0.05	<0.05	**0.2**	<0.05	<0.05	<0.05	<0.05	<0.05	**0.41**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.06**	<0.05	0.05	**0.07**	<0.05
20	Nickel	ug/l	**22**	20	**36**	**32**	15	**27**	17	**21**	13	13	14	**43**	**35**	8	9	12	**55**	9	10	**24**	13	18	**41**	20	**26**	**27**	**49**	**23**	4
-	Selenium	ug/l	<0.5	15	<0.5	<0.5	<0.5	<0.5	86	<0.5	<0.5	37	36	<0.5	<0.5	23	25	6.3	<0.5	5.4	7.2	<0.5	80	<0.5	1.3	3.7	<0.5	34	3.7	<0.5	25
40	Zinc	ug/l	4	6	7	10	3	<2	3	5	4	20	4	6	7	<2	<2	3	3	<2	8	35	3	10	10	17	15	7	20	7	<2
-																															
-	Calcium	ug/l	160000	110000	300000	350000	340000	290000	250000	260000	100000	84000	70000	340000	540000	56000	70000	130000	330000	55000	56000	240000	230000	210000	370000	140000	300000	260000	130000	420000	57000
-	Magnesium	ug/l	310000	280000	510000	540000	520000	270000	330000	350000	270000	240000	170000	460000	480000	120000	120000	140000	570000	68000	74000	230000	270000	270000	250000	7700	290000	220000	7900	300000	120000
-	Potassium	ug/l	90000	93000	200000	180000	180000	110000	86000	80000	97000	88000	79000	140000	92000	89000	96000	79000	230000	93000	120000	74000	75000	51000	110000	3600	90000	72000	3900	99000	91000
-	Sodium	ug/l	2700000	2800000	3600000	4000000	3700000	2600000	3500000	4000000	2500000	2600000	1900000	3300000	3200000	1200000	1100000	350000	4000000	310000	410000	2700000	3200000	3700000	2400000	30000	2700000	2200000	34000	2700000	1100000
1000	Iron (dissolved)	ug/l	260	300	240	210	300	**1400**	**11000**	81	**3300**	390	390	970	200	**2000**	59	63	280	<10	56	230	<10	83	720	<10	270	430	<10	280	650
-	Iron (total)	ug/l	48000	22000	47000	63000	45000	8500	130000	84000	140000	88000	180000	250000	160000	140000	50000	160000	4600	99000	17000	13000	13000	14000	560000	1500	190000	67000	2200	110000	120000
-	Manganese (dissolved)	ug/l	1800	1400	1300	1200	920	3000	2000	2900	790	860	320	920	2600	900	1100	730	420	460	570	1700	890	1600	1600	18	1200	820	20	670	320
-	Manganese (total)	ug/l	5200	2000	2800	3900	1600	3000	20000	16000	3400	2500	3700	9300	17000	10000	30000	17000	480	6100	1200	1800	970	2000	22000	55	33000	2400	90	2700	8500
-																															
-	Nitrate	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	30	<0.5	<0.5	37	<0.5	<0.5
-	Nitrite	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.2	<0.1	<0.1	0.2	<0.1	<0.1	0.2	<0.1	<0.1	0.1	0.4	<0.1	<0.1	0.2	<0.1	0.2
-	TON	mg/l	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.3	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	6.9	<0.1	<0.1	8.4	<0.1	<0.1
400	Sulphate	mg/l	99	45	**1200**	**850**	**1100**	100	35	100	4.8	23	<0.5	**1000**	**550**	<0.5	2	340	**1500**	170	260	100	6.9	110	190	51	110	76	67	57	35
-	Sulphide	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
-	Sulphur	mg/l	25	14	410	380	410	47	120	76	4.1	5.5	<0.01	350	280	2.1	9.1	130	440	84	110	44	19	51	80	22	<0.01	23	22	<0.01	15
250	Chloride	mg/l	**6900**	**3700**	**9200**	**6500**	**8600**	**6800**	**5300**	**6900**	**6200**	**3300**	**3200**	**8100**	**5000**	**2300**	**1700**	**720**	**9800**	170	**290**	**6500**	**4600**	**6700**	**6600**	45	**5900**	**5200**	51	**6500**	**1300**
0.021	Ammoniacal Nitrogen as N	mg/l	**19**	**13**	**2.8**	**1.5**	**3.3**	**13**	**7.4**	**15**	**33**	**15**	**19**	**3.8**	**3.3**	**18**	**15**	**8.8**	**2**	**9.6**	**14**	**8.7**	**6.5**	**9**	**22**	**0.12**	**27**	**22**	**0.028**	**19**	**16**
0.027	Ammoniacal Nitrogen as NH4	mg/l	**25**	**16**	**3.6**	**1.9**	**4.2**	**16**	**9.6**	**19**	**42**	**20**	**24**	**4.8**	**4.3**	**23**	**19**	**11**	**2.5**	**12**	**18**	**11**	**8.3**	**12**	**29**	**0.16**	**35**	**29**	**0.04**	**25**	**21**
-	Total Suspended Solids	mg/l	87	2200	<10	5600	280	160	61000	7000	730	3300	2700	150	12000	2200	80000	14000	150	4700	330	300	77	470	14000	35	7900	36	53	6400	430
-	Electrical Conductivity	uS/cm	20000	17000	25000	25000	22000	20000	18000	22000	19000	16000	11000	23000	22000	8500	6900	3900	27000	2300	2900	19000	17000	20000	19000	850	16000	16000	870	17000	8700
-	Total Alkalinity as CaCO3	mg/l																													
-																															
7.7	Phenols (total)	ug/l	<0.5	0.9	<0.5	0.7	<0.5	<0.5	2.9	<0.5	0.8	0.8	<0.5	<0.5	0.6	<0.5	1.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	3	<0.5	<0.5	**9.4**	<0.5	<0.5
1	Cyanide (total)	ug/l	**14**	**<10**	**26**	**<10**	**<10**	**<10**	**<10**	**13**	**35**	**<10**	**<10**	**22**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**15**	**<10**	**<10**	**14**	**15**	**<10**	**<10**	**10**	**<10**	**<10**	**<10**
1	Cyanide (free)	ug/l	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**
-																															
-	Acenaphthene	ug/l	0.03	<0.01	0.02	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	0.09	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.07	<0.01	0.01	0.02	<0.01	<0.01	<0.01
-	Acenaphthylene	ug/l	0.11	<0.01	0.08	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01
0.1	Anthracene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.04	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**0.15**	**0.15**	<0.01	<0.01	<0.01	0.03	<0.01	<0.01
-	Benzo(a)anthracene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.08	0.18	<0.01	<0.01	<0.01	0.03	<0.01	<0.01
0.05	Benzo(a)pyrene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**<0.10**	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	**<0.10**	<0.01	<0.01	**<0.10**	0.01	<0.01	**<0.10**	**0.06**	**0.18**	<0.01	<0.01	<0.01	0.02	<0.01	<0.01
-	Benzo(b)fluoranthene	ug/l	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	0.01	<0.01	0.02	<0.01	<0.10	0.01	<0.01	<0.10	<0.01	<0.01	<0.10	0.11	0.25	<0.01	<0.01	<0.01	0.01	<0.01	<0.01
-	Benzo(ghi)perylene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.10	<0.01	<0.01	<0.10	<0.01	<0.01	<0.10	0.02	0.16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
-	Benzo(k)fluoranthene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	0.01	<0.01	<0.10	<0.01	<0.01	<0.01	0.11	0.13	<0.01	<0.01	<0.01	0.01	<0.01	<0.01
-	Chrysene	ug/l	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.04	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	0.32	<0.01	<0.01	<0.01	0.03	<0.01	<0.01
-	Dibenzo(ah)anthracene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.10	<0.01	<0.01	<0.10	<0.01	<0.01	<0.10	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0.1	Fluoranthene	ug/l	<0.01	0.02	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.08	<0.01	0.03	0.09	0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	**0.19**	**0.36**	<0.01	0.02	<0.01	0.1	<0.01	<0.01
-	Fluorene	ug/l	0.03	<0.01	0.02	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	0.02	0.01	<0.01	0.04	0.09	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.12	0.15	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
-	Indeno(1,2,3cd)pyrene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.10	0.01	<0.01	<0.10	<0.01	<0.01	<0.10	0.03	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
1.2	Naphthalene	ug/l	**4.7**	0.07	**3.6**	<0.01	<0.01	0.25	0.04	0.02	0.48	0.34	<0.01	0.63	0.04	0.51	0.09	0.04	0.28	0.03	0.03	0.23	0.11	0.2	0.45	0.03	<0.01	0.49	0.03	<0.01	0.14
-	Phenanthrene	ug/l	0.02	0.02	0.02	<0.01	0.02	<0.01	0.02	<0.01	<0.01	0.01	0.06	0.03	0.07	0.11	0.08	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.52	0.63	<0.01	0.03	0.01	0.06	<0.01	<0.01
-	Pyrene	ug/l	<0.01	0.02	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	0.05	0.07	0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.13	0.33	<0.01	0.02	<0.01	0.07	<0.01	<0.01
-	Polyaromatic Hydrocarbons (Total)	ug/l	4.9	0.15	3.7	<0.01	0.04	0.25	0.21	0.06	0.48	0.35	0.29	0.69	0.25	0.97	0.52	0.14	0.28	<0.10	0.04	0.23	0.11	1.9	3.5	0.03	0.08	0.57	0.39	<0.01	0.14
-	Sum of 4No. PAHs	ug/l	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.4	<0.06	<0.04	<0.04	<0.04	<0.04	<0.05	<0.22	<0.4	<0.04	<0.04	<0.4	<0.04	<0.04	<0.4	0.27	0.59	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
0.03	Sum of benzo(b) and benzo(k)fluoranthene	ug/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	**<0.2**	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	**<0.2**	0.02	<0.02	**<0.2**	<0.02	<0.02	**<0.2**	**0.22**	**0.38**	<0.02	<0.02	<0.02	0.02	<0.02	<0.02
0.002	Sum of indeno(123cd)pyrene and benzo(ghi)perylene	ug/l	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.2**	**<0.04**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.2**	**<0.2**	**<0.02**	**<0.02**	**<0.2**	**<0.02**	**<0.02**	**<0.2**	**0.05**	**0.21**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**
-		ug/l																													
-	TPH (C8-C10)	ug/l	<10		<10	<10	<10	<10	<10	<10	<10			<10	20	<10			<10	<10	<10	<10	<10	<10	<20		<10	<10			<10
-	TPH (C10-C12)	ug/l	<10		<10	<10	<10	<10	<10	<10	<10			<10	47	<10			<10	<10	<10	<10	<10	<10	<20		<10	<10			<10
-	TPH (C12-C16)	ug/l	280		<10	49	<10	<10	<10	77	<10			<10	<10	15			<10	11	<10	<10	<10	<10	<20		<10	<10			<10
-	TPH (C16-C21)	ug/l	36		<10	130	<10	<10	25	230	<10			<10	<10	45			<10	42	<10	<10	15	<10	26		<10	<10			10
-	TPH (C21-C35)	ug/l	46		<10	90	<10	<10	34	14	<10			<10	<10	20			<10	51	<10	<10	10	<10	230		<10	150			23
-	TPH (C35-C40)	ug/l	<10		<10	13	<10	<10	<10	<10	<10			<10	<10	<10			<10	<10	<10	<10	<10	<10	27		<10	12			<10
-	Total TPH (C8-C40)	ug/l	370		<10	280	<10	<10	50	320	<10			<10	70	90			<10	100	<10	<10	30	<10	290		<10	160			30
-																															
-	TPH Aliphatics >C5-C6	ug/l		<10								<10	<10				<10	<10								<10			<10	<10	
-	TPH Aliphatics >C6-C8	ug/l		<10								<10	<10				<10	<10								<10			<10	<10	
-	TPH Aliphatics >C8-C10	ug/l		<10								<10	<10				<10	<10								<10			<10	<10	
-	TPH Aliphatics >C10-C12	ug/l		<10								<10	<10				10	<10								<20			<20	<10	
-	TPH Aliphatics >C12-C16	ug/l		<10								10	<10				30	<10								<20			46	<10	
-	TPH Aliphatics >C16-C21	ug/l		<10								68	<10				60	<10								<20			140	<10	
-	TPH Aliphatics >C21-C35	ug/l		14								400	<10				110	<10								45			100	<10	
-	TPH Aliphatics >C35-C44	ug/l		<10								70	<10				<10	<10								<20			<20	<10	
-	TPH Total Aliphatics (C5-C44)	ug/l		10								550	**ND**				210	**ND**								40			290	**ND**	
-																															
-	TPH Aromatics >C6-C7	ug/l		<10								<10	<10				<10	<10								<10			<10	<10	
-	TPH Aromatics >C7-C8	ug/l		<10								<10	<10				<10	<10								<10			<10	<10	
-	TPH Aromatics >C8-C10	ug/l		<10								<10	<10				<10	<10								<10			<10	<10	
-	TPH Aromatics >C10-C12	ug/l		<10								<10	<10				<10	<10								66			<20	<10	
-	TPH Aromatics >C12-C16	ug/l		<10								47	<10				30	<10								<20			120	<10	
-	TPH Aromatics >C16-C21	ug/l		<10								230	<10				40	19								<20			450	<10	
-	TPH Aromatics >C21-C35	ug/l		13								1200	<10				20	11								<20			3300	<10	
-	TPH Aromatics >C35-C44	ug/l		<10								170	<10				<10	<10								<20			240	<10	
-	TPH Total Aromatics (C6-C44)	ug/l		10								1700	**ND**				90	30								70			4100	**ND**	
-																															
-	TPH Total (Aliphatics and Aromatics)	ug/l		20								2200	**ND**				300	30								110			4400	**ND**	
-																															
8	Benzene	ug/l		<1			<1			<1		<1	<1				<1	<1			<1			<1		<1			<1	<1	
20	Ethylbenzene	ug/l		<1			<1			<1		<1	<1				<1	<1			<1			<1		<1			<1	<1	
40	Toluene	ug/l		<1			<1			<1		<1	<1				<1	<1			<1			<1		<1			<1	<1	
-	Meta/Para-Xylene	ug/l		<1			<1			<1		<1	<1				<1	<1			<1			<1		<1			<1	<1	
-	Ortho-Xylene	ug/l		<1			<1			<1		<1	<1				<1	<1			<1			<1		<1			<1	<1	
-	Methyl tert-Butyl Ether	ug/l		<1			<1			<1		<1	<1				<1	<1			<1			<1		40			120	<1	

	Date		03/10/2013	24/10/2013	03/10/2013	24/10/2013	17/12/2013	01/10/2013	21/10/2013	16/12/2013	03/10/2013	24/10/2013	17/12/2013	03/10/2013	24/10/2013	01/10/2013	21/10/2013	17/12/2013	01/10/2013	21/10/2013	16/12/2013	01/10/2013	21/10/2013	16/12/2013	03/10/2013	25/10/2013	18/12/2013	03/10/2013	25/10/2013	18/12/2013	01/10/2013
	Sample ID		BH01	BH01	BH03	BH03	BH03	BH04	BH04	BH04	BH05	BH05	BH05	BH06	BH06	BH07	BH07	BH07	BH12	BH12	BH12	BH13	BH13	BH13	BH14	BH14	BH14	BH15	BH15	BH15	BH19A
	Depth	m																													
30	Sum of Xylenes	ug/l		<2			<2			<2		<2	<2				<2	<2			<2			<2		<2			<2	<2	
-		ug/l																													
-	1,1,1,2-Tetrachloroethane	ug/l		<1								<1					<1									<1			<1		
100	1,1,1-Trichloroethane	ug/l		<1								<1					<1									<1			<1		
-	1,1,2,2-Tetrachloroethane	ug/l		<1								<1					<1									<1			<1		
300	1,1,2-Trichloroethane	ug/l		<1								<1					<1									<1			<1		
10	1,1,2-Trichloroethylene (TCE)	ug/l		<1								<1					<1									<1			<1		
-	1,1-Dichloroethane	ug/l		<1								<1					<1									<1			<1		
-	1,1-Dichloroethylene	ug/l		<1								<1					<1									<1			<1		
-	1,1-Dichloro-1-propene	ug/l		<1								<1					<1									<1			<1		
-	1,2,3-Trichloropropane	ug/l		<1								<1					<1									<1			<1		
-	1,2,4-Trimethylbenzene	ug/l		<1								<1					<1									<1			<1		
-	1,2-Dibromoethane	ug/l		<1								<1					<1									<1			<1		
-	1,2-Dichlorobenzene	ug/l		<1								<1					<1									<1			<1		
10	1,2-Dichloroethane	ug/l		<1								<1					<1									<1			<1		
-	1,2-Dichloropropane	ug/l		<1								<1					<1									<1			<1		
-	1,3,5-Trimethylbenzene	ug/l		<1								<1					<1									<1			<1		
-	1,3-Dichlorobenzene	ug/l		<1								<1					<1									<1			<1		
-	1,3-Dichloropropane	ug/l		<1								<1					<1									<1			<1		
-	1,4-Dichlorobenzene	ug/l		<1								<1					<1									<1			<1		
-	2,2-Dichloropropane	ug/l		<1								<1					<1									<1			<1		
-	2-Chlorotoluene	ug/l		<1								<1					<1									<1			<1		
-	4-Chlorotoluene	ug/l		<1								<1					<1									<1			<1		
8	Benzene	ug/l		<1								<1					<1									<1			<1		
-	Bromobenzene	ug/l		<1								<1					<1									<1			<1		
-	Bromochloromethane	ug/l		<1								<1					<1									<1			<1		
-	Bromodichloromethane	ug/l		<1								<1					<1									<1			<1		
-	Bromoform	ug/l		<1								<1					<1									5			4		
-	Bromomethane	ug/l		<1								<1					<1									<1			<1		
12	Carbon tetrachloride	ug/l		<1								<1					<1									<1			<1		
-	Chlorobenzene	ug/l		<1								<1					<1									<1			<1		
-	Chlorodibromomethane	ug/l		<1								<1					<1									3			3		
-	Chloroethane	ug/l		<1								<1					<1									<1			<1		
2.5	Chloroform	ug/l		<1								<1					<1									<1			<1		
-	Chloromethane	ug/l		<1								<1					<1									<1			<1		
-	cis-1,2-Dichloroethylene	ug/l		<1								<1					<1									<1			<1		
-	cis-1,3-Dichloropropene	ug/l		<1								<1					<1									<1			<1		
-	Dibromomethane	ug/l		<1								<1					<1									<1			<1		
-	Dichlorodifluoromethane	ug/l		<1								<1					<1									<1			<1		
20	Dichloromethane	ug/l		**<50**								**<50**					**<50**									**<50**			**<50**		
20	Ethylbenzene	ug/l		<1								<1					<1									<1			<1		
-	Isopropylbenzene	ug/l		<1								<1					<1									<1			<1		
-	M/p-Xylene	ug/l		<1								<1					<1									<1			<1		
-	n-Propylbenzene	ug/l		<1								<1					<1									<1			<1		
-	o-Xylene	ug/l		<1								<1					<1									<1			<1		
-	p-Isopropyltoluene	ug/l		<1								<1					<1									<1			<1		
-	Sec-Butylbenzene	ug/l		<1								<1					<1									<1			<1		
50	Styrene	ug/l		<1								<1					<1									<1			<1		
-	Tert-Butylbenzene	ug/l		<1								<1					<1									<1			<1		
10	Tetrachloroethylene (PCE)	ug/l		<1								<1					<1									<1			<1		
-	Toluene	ug/l		<1								<1					<1									<1			<1		
-	trans-1,2-Dichloroethylene	ug/l		<1								<1					<1									<1			<1		
-	trans-1,3-Dichloropropene	ug/l		<1								<1					<1									<1			<1		
-	Trichlorofluoromethane	ug/l		<1								<1					<1									<1			<1		
-	Vinyl Chloride	ug/l		<0.5								<0.5					<0.5									<0.5			<0.5		
-	Sum of TCE and PCE	ug/l		<2								<2					<2									<2			<2		
-																															
-	1,2,4-Trichlorobenzene	ug/l		<1								<1					<1									<1			<1		
-	1,2-Dichlorobenzene	ug/l		<1								<1					<1									<1			<1		
-	1,3-Dichlorobenzene	ug/l		<1								<1					<1									<1			<1		
-	1,4-Dichlorobenzene	ug/l		<1								<1					<1									<1			<1		
-	2,4,5-Trichlorophenol	ug/l		<1								<1					<1									<1			<1		
-	2,4,6-Trichlorophenol	ug/l		<1								<1					<1									<1			<1		
20	2,4-Dichlorophenol	ug/l		<1								<1					<1									<1			<1		
-	2,4,-Dimethylphenol	ug/l		<1								<1					<1									<1			<1		
-	2,4,-Dinitrophenol	ug/l		<5								<5					<5									<5			<5		
-	2,4-Dinitrotoluene	ug/l		<1								<1					<1									<1			<1		
-	2,6-Dinitrotoluene	ug/l		<1								<1					<1									<1			<1		
-	2-Chloronaphthalene	ug/l		<1								<1					<1									<1			<1		
50	2-Chlorophenol	ug/l		<1								<1					<1									<1			<1		
-	2-Methylphenol	ug/l		<1								<1					<1									<1			<1		
-	2-Methyl naphthalene	ug/l		<1								<1					<1									<1			<1		
-	2-Nitroaniline	ug/l		<1								<1					<1									<1			<1		
-	2-Nitrophenol	ug/l		<1								<1					<1									<1			<1		
-	3-Nitroaniline	ug/l		<1								<1					<1									<1			<1		
-	3/4-Methylphenol	ug/l		<1								<1					<1									<1			<1		
-	4-Bromophenyl phenyl ether	ug/l		<1								<1					<1									<1			<1		
40	4-Chloro, 3-methylphenol	ug/l		<1								<1					<1									<1			<1		
-	4-Chloroaniline	ug/l		<1								<1					<1									<1			<1		
-	4-Chlorophenyl phenylether	ug/l		<1								<1					<1									<1			<1		
-	4-Nitroaniline	ug/l		<1								<1					<1									<1			<1		
-	4-Nitrophenol	ug/l		<1								<1					<5									<1			<1		
-	Acenaphthene	ug/l		<1								<1					<1									<1			<1		
-	Acenaphthylene	ug/l		<1								<1					<1									<1			<1		
0.1	Anthracene	ug/l		**<1**								**<1**					**<1**									**<1**			**<1**		
-	Azobenzene	ug/l		<1								<1					<1									<1			<1		
-	Benzo(a)anthracene	ug/l		<1								<1					<1									<1			<1		
0.05	Benzo(a)pyrene	ug/l		**<1**								**<1**					**<1**									**<1**			**<1**		
-	Benzo(b/k)fluoranthene	ug/l		<1								<1					<1									<1			<1		
-	Benzo(ghi)perylene	ug/l		<1								<1					<1									<1			<1		
-	Bis(2-chloroethoxy) methane	ug/l		<1								<1					<1									<1			<1		
-	Bis(2-chloroethyl)ether	ug/l		<1								<1					<1									<1			<1		
-	Bis(2-chloroisopropyl) ether	ug/l		<1								<1					<1									<1			<1		
1.3	Bis(2-ethylhexyl) phthalate	ug/l		<1								<1					<1									<1			<1		
-	Butyl benzyl phthalate	ug/l		<1								<1					<1									<1			<1		
-	Carbazole	ug/l		<1								<1					<1									<1			<1		
-	Chrysene	ug/l		<1								<1					<1									<1			<1		
-	Di-n-butyl phthalate	ug/l		<1								<1					<1									<1			<1		
-	Di-n-octyl phthalate	ug/l		<1								<1					<1									<1			<1		
-	Dibenz(ah)anthracene	ug/l		<1								<1					<1									<1			<1		
-	Dibenzofuran	ug/l		<1								<1					<1									<1			<1		
-	Diethyl phthalate	ug/l		<1								<1					<1									<1			<1		
-	Dimethyl phthalate	ug/l		<1								<1					<5									<1			<1		
0.1	Fluoranthene	ug/l		**<1**								**<1**					**<1**									**<1**			**<1**		
-	Fluorene	ug/l		<1								<1					<1									<1			<1		
0.01	Hexachlorobenzene	ug/l		**<1**								**<1**					**<1**									**<1**			**<1**		
0.1	Hexachlorobutadiene	ug/l		**<1**								**<1**					**<5**									**<1**			**<1**		
-	Hexachlorocyclopentadiene	ug/l		<5								<5					<5									<5			<5		
-	Hexachloroethane	ug/l		<5								<5					<5									<5			<5		
-	Indeno(1,2,3,cd)pyrene	ug/l		<1								<1					<1									<1			<1		

Grontmij Limited

	Date		03/10/2013	24/10/2013	03/10/2013	24/10/2013	17/12/2013	01/10/2013	21/10/2013	16/12/2013	03/10/2013	24/10/2013	17/12/2013	03/10/2013	24/10/2013	01/10/2013	21/10/2013	17/12/2013	01/10/2013	21/10/2013	16/12/2013	01/10/2013	21/10/2013	16/12/2013	03/10/2013	25/10/2013	18/12/2013	03/10/2013	25/10/2013	18/12/2013	01/10/2013
	Sample ID		BH01	BH01	BH03	BH03	BH03	BH04	BH04	BH04	BH05	BH05	BH05	BH06	BH06	BH07	BH07	BH07	BH12	BH12	BH12	BH13	BH13	BH13	BH14	BH14	BH14	BH15	BH15	BH15	BH19A
	Depth	m																													
-	Isophorone	ug/l		<1								<1					<1								<1			<1			
1.2	Naphthalene	ug/l		<1								<1					<1								<1			<1			
-	Nitrobenzene	ug/l		<1								<1					<1								<1			<1			
0.4	Pentachlorophenol	ug/l		**<1**								**<1**					**<5**								**<1**			**<1**			
-	Phenanthrene	ug/l		<1								<1					<1								<1			<1			
7.7	Phenol	ug/l		<5								<5					<5								<5			<5			
-	Pyrene	ug/l		<1								<1					<1								<1			<1			
-																															
-	PCB 101	ug/l													<0.005		<0.005														
-	PCB 118	ug/l													<0.005		<0.005														
-	PCB 138	ug/l													<0.005		<0.005														
-	PCB 153	ug/l													<0.005		<0.005														
-	PCB 180	ug/l													<0.005		<0.005														
-	PCB 28	ug/l													<0.005		<0.005														
-	PCB 52	ug/l													<0.005		<0.005														
-	Sum of PCBs	ug/l													<0.035		<0.035														

1																														
Strata																														
Observed Contamination																														
Sample Description	Alluvium	Clay	Clay	Clay	Alluvium	Alluvium	Alluvium	Till	Till	Till	Till	Alluvium	Alluvium	Alluvium	Alluvium	Alluvium	Alluvium	Alluvium	Alluvium	Till	Till	Alluvium/Peat	Alluvium/Peat	Alluvium	Alluvium	Till	Till	Alluvium	Alluvium	Alluvium	Alluvium	Alluvium
	ROUND 2	ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 2	ROUND 3	PRELIM RD 1	ROUND 1	ROUND 2	ROUND 3	PRELIM RD 1	ROUND 1	ROUND 2	ROUND 3	PRELIM RD 1	ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 2	ROUND 1	ROUND 3	ROUND 1	ROUND 2	ROUND 1	ROUND 2	ROUND 1	ROUND 2	ROUND 3	ROUND 1
Date	21/10/2013	01/10/2013	21/10/2013	17/12/2013	03/10/2013	21/10/2013	17/12/2013	05/09/2013	02/10/2013	24/10/2013	17/12/2013	05/09/2013	03/10/2013	24/10/2013	18/12/2013	05/09/2013	02/10/2013	24/10/2013	02/10/2013	17/12/2013	04/10/2013	01/01/1900	01/10/2013	21/10/2013	01/10/2013	21/10/2013	04/10/2013	22/10/2013	04/10/2013	22/10/2013	17/12/2013	02/10/2013
Sample ID	BH19A	BH20	BH20	BH20	BH21	BH21	BH21	BH25	BH25	BH25	BH25	BH26	BH26	BH26	BH26	BH27	BH27	BH27	BH28	BH28	BH30	BH30	BH32	BH32	BH34	BH34	3H35 SHALLOW	3H35 SHALLOW	BH35 DEEP	BH35 DEEP	BH35 DEEP	BH37
Depth																																
Substance																																
pH	7.8	7.3	7.3	6.9	7	7.8	7.5	6.9	6.9	6.9	7	7.3	6.8	6.6	7.1	7.7	7.5	7.5	6.8	6.8	6.9	6.8	7.9	7.8	7.7	7.3	7.7	7.7	7.8	7.3	7.2	7.7
Arsenic	24	**43**	**44**	**67**	**65**	**41**	**39**	**200**	**93**	**63**	23	**110**	**65**	**130**	**30**	**62**	**62**	**38**	**47**	**55**	**48**	**60**	**60**	**32**	**34**	**73**	**68**	22	**58**	**43**	**56**	**62**
Boron	1600	710	750	670	1900	1000	1200	400	620	550	590	540	300	370	380	700	1100	740	470	330	1400	1300	1200	1000	410	1900	1800	800	860	1300	1300	1300
Cadmium	0.05	0.02	0.07	<0.02	0.05	0.03	<0.02	<0.02	0.04	<0.02	0.04	0.05	0.05	0.07	0.02	<0.02	<0.02	<0.02	0.04	0.04	0.05	<0.02	<0.02	<0.02	0.03	<0.02	0.04	<0.02	0.05	0.09	<0.02	0.04
Chromium (total)	11	42	6	34	16	7	82	36	60	22	3	34	67	35	4	35	41	15	47	42	44	80	44	5	35	6	49	4	66	9	56	51
Chromium (III)	**11**	**39**	**6**	**34**	**16**	**7**	**82**	**36**	**60**	**22**	3	**30**	**67**	**35**	4	**35**	**41**	**15**	**47**	**42**	**44**	**80**	**44**	**5**	**35**	**6**	**49**	4	**66**	**9**	**56**	**51**
Chromium (VI)	**<3**	**3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**4**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**
Copper	**16**	**1400**	**110**	**99**	**580**	**17**	**16**	**59**	**5100**	**80**	**120**	**16**	**1500**	**430**	**560**	**15**	**31**	**19**	**120**	**130**	**2900**	**490**	**36**	**8.6**	**74**	**72**	**64**	**18**	**130**	**82**	**100**	**17**
Lead	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.4	0.7	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.4	0.8	<0.3	<0.3	0.3	0.4	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.6	0.5	<0.3	0.7
Mercury	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.15**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.14**	<0.05	<0.05	<0.05
Nickel	10	19	10	13	**32**	5	8	11	**24**	15	15	10	**36**	**40**	**31**	7	8	13	**38**	**31**	16	13	6	5	20	**56**	9	8	**42**	**22**	18	5
Selenium	25	<0.5	68	<0.5	<0.5	12	19	110	<0.5	32	24	90	<0.5	<0.5	<0.5	52	14	7.2	38	<0.5	<0.5	<0.5	13	11	24	120	32	25	60	79	<0.5	17
Zinc	5	4	19	7	5	3	5	22	4	3	<2	6	7	6	3	11	<2	3	3	6	7	6	<2	<2	4	3	7	<2	10	30	6	<2
Calcium	47000	260000	210000	230000	190000	94000	88000	180000	270000	170000	270000	170000	330000	360000	310000	91000	87000	81000	380000	300000	300000	250000	100000	90000	150000	220000	61000	62000	84000	160000	160000	87000
Magnesium	110000	260000	290000	300000	490000	83000	99000	260000	320000	130000	190000	120000	290000	350000	340000	76000	99000	93000	320000	340000	240000	320000	110000	100000	110000	550000	110000	100000	150000	310000	360000	110000
Potassium	89000	83000	95000	90000	190000	77000	80000	82000	110000	65000	88000	74000	87000	94000	100000	68000	95000	84000	83000	79000	150000	170000	88000	85000	58000	230000	100000	67000	89000	99000	120000	79000
Sodium	1200000	2200000	2800000	3400000	3500000	610000	940000	2300000	2700000	840000	1700000	1100000	2300000	2900000	2900000	330000	390000	220000	2500000	3200000	2200000	3400000	550000	580000	890000	4200000	1200000	940000	1700000	2800000	3200000	670000
Iron (dissolved)	160	240	12	93	350	38	150		**24000**	**1200**	240		**7300**	280	310		940	280	270	140	**26000**	**21000**	300	33	190	19	480	79	860	17	180	170
Iron (total)	35000	130000	36000	59000	11000	25000	24000		80000	28000	160000		200000	10000	260000		92000	12000	58000	80000	51000	45000	86000	160000	27000	6400	9500	210000	8900	93000	27000	64000
Manganese (dissolved)	360	2400	1700	2600	360	610	750		1600	2700	1900		5400	5800	8500		810	860	2600	3500	1100	2000	960	610	460	350	420	260	250	560	620	560
Manganese (total)	1800	9800	2300	5400	370	1300	1400		2900	3100	3400		11000	5800	16000		4700	1200	4300	5200	1600	2500	4800	6600	1100	360	610	6000	430	4100	1200	3200
Nitrate	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	17	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrite	<0.1	0.2	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	0.2	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	0.6
TON	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2
Sulphate	1.8	260	340	**490**	**1200**	2.2	25	59	45	210	400	100	30	52	<0.5	65	53	<0.5	71	43	<0.5	15	350	300	**3300**	**1000**	46	<0.5	9.6	<0.5	72	250
Sulphide	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur	31	120	170	200	400	17	11	15	8.5	79	130	36	14	18	<0.01	21	8.9	1.9	22	13	3.7	8.4	140	130	23	450	18	9.6	50	2.9	29	89
Chloride	**1300**	**4000**	**4200**	**5900**	**8800**	**800**	**1300**	**5700**	**6600**	**1300**	**3400**	**2000**	**6600**	**5600**	**6700**	**490**	**990**	170	**6900**	**6500**	**6100**	**6200**	**2200**	**550**	**3300**	**7300**	**2100**	44	**7400**	160	**6200**	**900**
Ammoniacal Nitrogen as N	**12**	**5.9**	**4.9**	**8.7**	**1.9**	**7.4**	**12**	**37**	**34**	**7.7**	**18**	**19**	**50**	**31**	**50**	**7.7**	**14**	**5.5**	**30**	**31**	**31**	**30**	**14**	**8.2**	**9.8**	**1.4**	**18**	**6.7**	**28**	**13**	**17**	**6.9**
Ammoniacal Nitrogen as NH4	**15**	**7.6**	**6.3**	**11**	**2.5**	**9.6**	**16**	**48**	**44**	**9.9**	**23**	**25**	**64**	**40**	**65**	**9.9**	**18**	**7.1**	**39**	**39**	**39**	**39**	**19**	**10**	**13**	**1.8**	**24**	**8.7**	**35**	**17**	**22**	**8.9**
Total Suspended Solids	340	2400	360	3300	24	170	470	14000	19	3500	2100	3900	1400	31	3400	490	97	360	14	4800	14	670	2100	4100	220	35	<10	3600	130	3700	2900	25
Electrical Conductivity	6900	18000	11000	19000	24000	4000	6500	18000	19000	6500	10000	8000	19000	19000	17000	3200	3500	2200	19000	20000	18000	20000	4900	4000	7200	23000	8700	5800	11000	13000	19000	5300
Total Alkalinity as CaCO3																																
Phenols (total)	5.8	<0.5	<0.5	<0.5	<0.5	0.8	6.8	<0.5	<0.5	0.7	<0.5	<0.5	2.4	0.7	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	<0.5
Cyanide (total)	**<10**	**<10**	**<10**	**<10**	**17**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**48**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**24**	**<10**	**<10**	**<10**	**<10**	**<10**	**27**	**<10**	**54**	**<10**	**<10**	**<10**
Cyanide (free)	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**
Acenaphthene	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	0.03	<0.01	<0.01	0.07	<0.01	<0.01	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.08	<0.01	<0.01	0.02	<0.01	0.02	<0.01	0.03	0.02	<0.01	0.03	<0.01
Acenaphthylene	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.07	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.01
Anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.03	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01
Benzo(a)anthracene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.01	<0.01	0.04	<0.01	0.02	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	0.04	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.06	<0.01	0.02	0.01
Benzo(ghi)perylene	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	0.03	0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.06	<0.01	0.01	0.01
Chrysene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.02	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.05	<0.01	0.02	0.01
Dibenzo(ah)anthracene	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01
Fluoranthene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	0.01	<0.01	0.08	<0.01	<0.01	0.01	0.02	<0.01	<0.01	**0.18**	<0.01	<0.01	0.02	<0.01	0.03	<0.01	<0.01	<0.01	0.02	<0.01	0.05	<0.01	<0.01	0.01
Fluorene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.02	0.03	<0.01	0.01	<0.01
Indeno(1,2,3cd)pyrene	<0.01	<0.10	<0.01	0.02	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	0.04	<0.01
Naphthalene	0.23	0.31	<0.01	0.04	0.44	0.13	0.14	0.04	0.31	0.04	0.02	0.04	0.48	0.02	0.18	<0.01	0.19	0.01	0.15	0.01	0.32	<0.01	0.2	0.06	0.19	0.07	0.4	0.04	0.03	0.02	0.06	0.35
Phenanthrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	0.02	<0.01	0.1	<0.01	0.01	0.01	0.02	<0.01	0.01	0.02	<0.01	<0.01	0.04	<0.01	0.05	<0.01	<0.01	<0.01	0.02	<0.01	0.04	<0.01	<0.01	0.02
Pyrene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	0.01	<0.01	0.06	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.01	<0.01	<0.01	0.02	<0.01	0.03	<0.01	<0.01	<0.01	0.02	<0.01	0.05	<0.01	<0.01	0.01
Polyaromatic Hydrocarbons (Total)	0.23	0.31	<0.01	0.07	0.49	0.13	0.5	0.04	0.42	0.11	0.39	0.11	0.66	0.04	0.24	<0.01	0.21	0.22	0.15	0.06	0.69	<0.01	0.35	0.08	0.19	0.09	0.56	0.09	0.66	0.02	0.24	0.43
Sum of 4No. PAHs	<0.04	<0.22	<0.04	<0.05	<0.04	<0.04	0.11	<0.04	<0.05	<0.04	<0.04	<0.22	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.06	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.06	<0.04	0.2	<0.04	0.1	<0.04
Sum of benzo(b) and benzo(k)fluoranthene	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	**0.06**	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	**0.04**	<0.02	**0.12**	<0.02	0.03	0.02
Sum of indeno(123cd)pyrene and benzo(ghi)perylene	**<0.02**	**<0.2**	**<0.02**	**<0.03**	**<0.02**	**<0.02**	**0.05**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.2**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**0.04**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**0.08**	**<0.02**	**0.07**	**<0.02**
TPH (C8-C10)		<10		<10	<10		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10		<10			<10
TPH (C10-C12)		15		<10	<10		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	26		<10	<10	<10	<10	<10		<10			<10
TPH (C12-C16)		76		<10	120		<10	<10	<10	20	<10	<10	<10		35	<10	<10	<10	<10	<10	95		<10	<10	<10	58	<10		400			<10
TPH (C16-C21)		43		<10	34		<10	<10	<10	38	<10	<10	17		27	<10	<10	22	<10	<10	63		<10	18	<10	11	17		120			<10
TPH (C21-C35)		42		<10	13		<10	<10	<10	33	<10	<10	44		<10	<10	<10	27	<10	<10	47		<10	31	<10	<10	76		410			<10
TPH (C35-C40)		<10		<10	<10		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10	<10	<10		52			<10
Total TPH (C8-C40)		180		<10	160		<10	<10	<10	90	<10	<10	60		60	<10	<10	50	<10	<10	230		<10	50	<10	70	100		980			<10
TPH Aliphatics >C5-C6	<10		<10			<10								<10								<10					<10		<10	<10	
TPH Aliphatics >C6-C8	<10		<10			<10								<10								<10					<10		<10	<10	
TPH Aliphatics >C8-C10	<10		<10			<10								<10								<10					<10		<10	<10	
TPH Aliphatics >C10-C12	<10		<10			<10								<50								<10					<10		<10	<10	
TPH Aliphatics >C12-C16	10		10			10								<50								<10					20		50	26	
TPH Aliphatics >C16-C21	10		10			10								50								<10					10		20	13	
TPH Aliphatics >C21-C35	20		10			30								110								41					30		20	57	
TPH Aliphatics >C35-C44	<10		<10			<10								<50								<10					<10		<10	<10	
TPH Total Aliphatics (C5-C44)	40		30			50								160								40					60		90	100	
TPH Aromatics >C6-C7	<10		<10			<10								<10								<10					<10		<10	<10	
TPH Aromatics >C7-C8	<10		<10			<10								<10								<10					<10		<10	<10	
TPH Aromatics >C8-C10	<10		<10			<10								<10								<10					<10		<10	<10	
TPH Aromatics >C10-C12	<10		<10			<10								<50								<10					<10		<10	<10	
TPH Aromatics >C12-C16	<10		10			<10								100								<10					20		<10	73	
TPH Aromatics >C16-C21	10		10			<10								210								25					20		<10	44	
TPH Aromatics >C21-C35	<10		<10			<10								80								17					<10		<10	18	
TPH Aromatics >C35-C44	<10		<10			<10								<50								<10					<10		<10	<10	
TPH Total Aromatics (C6-C44)	10		20			**N.D.**								390								50					40		**N.D.**	130	
TPH Total (Aliphatics and Aromatics)	50		50			50								550								90					100		90	230	
Benzene	<1		<1			<1					<1			<1						<1		<1					<1		<1	<1	
Ethylbenzene	<1		<1			<1					<1			<1						<1		<1					<1		<1	<1	
Toluene	<1		<1			<1					<1			<1						<1		<1					<1		<1	<1	
Meta/Para-Xylene	<1		<1			<1					<1			<1						<1		<1					<1		<1	<1	
Ortho-Xylene	<1		<1			<1					<1			<1						<1		<1					<1		<1	<1	
Methyl tert-Butyl Ether	<1		<1			<1					<1			<1						<1		<1					<1		<1	<1	

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Date	21/10/2013	01/10/2013	21/10/2013	17/12/2013	03/10/2013	21/10/2013	17/12/2013	05/09/2013	02/10/2013	24/10/2013	17/12/2013	05/09/2013	03/10/2013	24/10/2013	18/12/2013	05/09/2013	02/10/2013	24/10/2013	02/10/2013	17/12/2013	04/10/2013	01/01/1900	01/10/2013	21/10/2013	01/10/2013	21/10/2013	04/10/2013	22/10/2013	04/10/2013	22/10/2013	17/12/2013	02/10/2013
Sample ID	BH19A	BH20	BH20	BH20	BH21	BH21	BH21	BH25	BH25	BH25	BH25	BH26	BH26	BH26	BH26	BH27	BH27	BH27	BH28	BH28	BH30	BH30	BH32	BH32	BH34	BH34	3H35 SHALLOW	BH35 SHALLOW	BH35 DEEP	BH35 DEEP	BH35 DEEP	BH37
Depth																																
Sum of Xylenes	<2		<2			<2					<2			<2						<2		<2						<2		<2	<2	
1,1,1,2-Tetrachloroethane	<1		<1			<1								<1														<1		<1		
1,1,1-Trichloroethane	<1		<1			<1								<1														<1		<1		
1,1,2,2-Tetrachloroethane	<1		<1			<1								<1														<1		<1		
1,1,2-Trichloroethane	<1		<1			<1								<1														<1		<1		
1,1,2-Trichloroethylene (TCE)	<1		<1			<1								<1														<1		<1		
1,1-Dichloroethane	<1		<1			<1								<1														<1		<1		
1,1-Dichloroethylene	<1		<1			<1								<1														<1		<1		
1,1-Dichloro-1-propene	<1		<1			<1								<1														<1		<1		
1,2,3-Trichloropropane	<1		<1			<1								<1														<1		<1		
1,2,4-Trimethylbenzene	<1		<1			<1								<1														<1		<1		
1,2-Dibromoethane	<1		<1			<1								<1														<1		<1		
1,2-Dichlorobenzene	<1		<1			<1								<1														<1		<1		
1,2-Dichloroethane	<1		<1			<1								<1														<1		<1		
1,2-Dichloropropane	<1		<1			<1								<1														<1		<1		
1,3,5-Trimethylbenzene	<1		<1			<1								<1														<1		<1		
1,3-Dichlorobenzene	<1		<1			<1								<1														<1		<1		
1,3-Dichloropropane	<1		<1			<1								<1														<1		<1		
1,4-Dichlorobenzene	<1		<1			<1								<1														<1		<1		
2,2-Dichloropropane	<1		<1			<1								<1														<1		<1		
2-Chlorotoluene	<1		<1			<1								<1														<1		<1		
4-Chlorotoluene	<1		<1			<1								<1														<1		<1		
Benzene	<1		<1			<1								<1														<1		<1		
Bromobenzene	<1		<1			<1								<1														<1		<1		
Bromochloromethane	<1		<1			<1								<1														<1		<1		
Bromodichloromethane	<1		<1			<1								<1														<1		<1		
Bromoform	<1		<1			<1								<1														<1		<1		
Bromomethane	<1		<1			<1								<1														<1		<1		
Carbon tetrachloride	<1		<1			<1								<1														<1		<1		
Chlorobenzene	<1		<1			<1								<1														<1		<1		
Chlorodibromomethane	<1		<1			<1								<1														<1		<1		
Chloroethane	<1		<1			<1								<1														<1		<1		
Chloroform	<1		<1			<1								<1														<1		<1		
Chloromethane	<1		<1			<1								<1														<1		<1		
cis-1,2-Dichloroethylene	<1		<1			<1								<1														<1		<1		
cis-1,3-Dichloropropene	<1		<1			<1								<1														<1		<1		
Dibromomethane	<1		<1			<1								<1														<1		<1		
Dichlorodifluoromethane	<1		<1			<1								<1														<1		<1		
Dichloromethane	**<50**		**<50**			**<50**								**<50**														**<50**		**<50**		
Ethylbenzene	<1		<1			<1								<1														<1		<1		
Isopropylbenzene	<1		<1			<1								<1														<1		<1		
M/p-Xylene	<1		<1			<1								<1														<1		<1		
n-Propylbenzene	<1		<1			<1								<1														<1		<1		
o-Xylene	<1		<1			<1								<1														<1		<1		
p-Isopropyltoluene	<1		<1			<1								<1														<1		<1		
Sec-Butylbenzene	<1		<1			<1								<1														<1		<1		
Styrene	<1		<1			<1								<1														<1		<1		
Tert-Butylbenzene	<1		<1			<1								<1														<1		<1		
Tetrachloroethylene (PCE)	<1		<1			<1								<1														<1		<1		
Toluene	<1		<1			<1								<1														<1		<1		
trans-1,2-Dichloroethylene	<1		<1			<1								<1														<1		<1		
trans-1,3-Dichloropropene	<1		<1			<1								<1														<1		<1		
Trichlorofluoromethane	<1		<1			<1								<1														<1		<1		
Vinyl Chloride	<0.5		<0.5			<0.5								<0.5														<0.5		<0.5		
Sum of TCE and PCE	<2		<2			<2								<2														<2		<2		
1,2,4-Trichlorobenzene	<1		<1			<1								<1														<1		<1		
1,2-Dichlorobenzene	<1		<1			<1								<1														<1		<1		
1,3-Dichlorobenzene	<1		<1			<1								<1														<1		<1		
1,4-Dichlorobenzene	<1		<1			<1								<1														<1		<1		
2,4,5-Trichlorophenol	<1		<1			<1								<1														<1		<1		
2,4,6-Trichlorophenol	<1		<1			<1								<1														<1		<1		
2,4-Dichlorophenol	<1		<1			<1								<1														<1		<1		
2,4,-Dimethylphenol	<1		<1			<1								<1														<1		<1		
2,4,-Dinitrophenol	<5		<5			<5								<5														<5		<5		
2,4-Dinitrotoluene	<1		<1			<1								<1														<1		<1		
2,6-Dinitrotoluene	<1		<1			<1								<1														<1		<1		
2-Chloronaphthalene	<1		<1			<1								<1														<1		<1		
2-Chlorophenol	<1		<1			<1								<1														<1		<1		
2-Methylphenol	<1		<1			<1								<1														<1		<1		
2-Methyl naphthalene	<1		<1			<1								<1														<1		<1		
2-Nitroaniline	<1		<1			<1								<1														<1		<1		
2-Nitrophenol	<1		<1			<1								<1														<1		<1		
3-Nitroaniline	<1		<1			<1								<1														<1		<1		
3/4-Methylphenol	<1		<1			<1								<1														<1		<1		
4-Bromophenyl phenyl ether	<1		<1			<1								<1														<1		<1		
4-Chloro, 3-methylphenol	<1		<1			<1								<1														<1		<1		
4-Chloroaniline	<1		<1			<1								<1														<1		<1		
4-Chlorophenyl phenylether	<1		<1			<1								<1														<1		<1		
4-Nitroaniline	<1		<1			<1								<1														<1		<1		
4-Nitrophenol	<5		<5			<5								<5														<5		<5		
Acenaphthene	<1		<1			<1								<1														<1		<1		
Acenaphthylene	<1		<1			<1								<1														<1		<1		
Anthracene	**<1**		**<1**			**<1**								**<1**														**<1**		**<1**		
Azobenzene	<1		<1			<1								<1														<1		<1		
Benzo(a)anthracene	<1		<1			<1								<1														<1		<1		
Benzo(a)pyrene	**<1**		**<1**			**<1**								**<1**														**<1**		**<1**		
Benzo(b/k)fluoranthene	<1		<1			<1								<1														<1		<1		
Benzo(ghi)perylene	<1		<1			<1								<1														<1		<1		
Bis(2-chloroethoxy) methane	<1		<1			<1								<1														<1		<1		
Bis(2-chloroethyl)ether	<1		<1			<1								<1														<1		<1		
Bis(2-chloroisopropyl) ether	<1		<1			<1								<1														<1		<1		
Bis(2-ethylhexyl) phthalate	<1		<1			<1								<1														<1		<1		
Butyl benzyl phthalate	<1		<1			<1								<1														<1		<1		
Carbazole	<1		<1			<1								<1														<1		<1		
Chrysene	<1		<1			<1								<1														<1		<1		
Di-n-butyl phthalate	<1		<1			<1								<1														<1		<1		
Di-n-octyl phthalate	<1		<1			<1								<1														<1		<1		
Dibenz(ah)anthracene	<1		<1			<1								<1														<1		<1		
Dibenzofuran	<1		<1			<1								<1														<1		<1		
Diethyl phthalate	<1		<1			<1								<1														<1		<1		
Dimethyl phthalate	<5		<5			<5								<5														<5		<5		
Fluoranthene	**<1**		**<1**			**<1**								**<1**														**<1**		**<1**		
Fluorene	<1		<1			<1								<1														<1		<1		
Hexachlorobenzene	**<1**		**<1**			**<1**								**<1**														**<1**		**<1**		
Hexachlorobutadiene	**<5**		**<5**			**<5**								**<1**														**<5**		**<5**		
Hexachlorocyclopentadiene	<5		<5			<5								<5														<5		<5		
Hexachloroethane	<5		<5			<5								<1														<5		<5		
Indeno(1,2,3,cd)pyrene	<1		<1			<1								<1														<1		<1		

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Date	21/10/2013	01/10/2013	21/10/2013	17/12/2013	03/10/2013	21/10/2013	17/12/2013	05/09/2013	02/10/2013	24/10/2013	17/12/2013	05/09/2013	03/10/2013	24/10/2013	18/12/2013	05/09/2013	02/10/2013	24/10/2013	02/10/2013	17/12/2013	04/10/2013	01/01/1900	01/10/2013	21/10/2013	01/10/2013	21/10/2013	04/10/2013	22/10/2013	04/10/2013	22/10/2013	17/12/2013	02/10/2013
Sample ID	BH19A	BH20	BH20	BH20	BH21	BH21	BH21	BH25	BH25	BH25	BH25	BH26	BH26	BH26	BH26	BH27	BH27	BH27	BH28	BH28	BH30	BH30	BH32	BH32	BH34	BH34	3H35 SHALLOW	BH35 SHALLOW	BH35 DEEP	BH35 DEEP	BH35 DEEP	BH37
Depth																																
Isophorone	<1		<1			<1								<1														<1		<1		
Naphthalene	<1		<1			<1								<1														<1		<1		
Nitrobenzene	<1		<1			<1								<1														<1		<1		
Pentachlorophenol	**<5**		**<5**			**<5**								**<1**														**<5**		**<5**		
Phenanthrene	<1		<1			<1								<1														<1		<1		
Phenol	<5		<5			<5								<5														<5		<5		
Pyrene	<1		<1			<1								<1														<1		<1		
PCB 101	<0.005		<0.005			<0.005				<0.005																						
PCB 118	<0.005		<0.005			<0.005				<0.005																						
PCB 138	<0.005		<0.005			<0.005				<0.005																						
PCB 153	<0.005		<0.005			<0.005				<0.005																						
PCB 180	<0.005		<0.005			<0.005				<0.005																						
PCB 28	<0.005		<0.005			<0.005				<0.005																						
PCB 52	<0.005		<0.005			<0.005				<0.005																						
Sum of PCBs	<0.035		<0.035			<0.035				<0.035																						

1																												
Strata																												
Observed Contamination																												
Sample Description	Alluvium ROUND 2	Alluvium ROUND 1	Alluvium ROUND 2	Alluvium ROUND 1	Alluvium ROUND 2	MG ROUND 1	MG ROUND 2	MG ROUND 3	Sand and gravel ROUND 1	Sand and gravel ROUND 2	Sand ROUND 1	Sand ROUND 2	Alluvium ROUND 1	Alluvium ROUND 2	Sand and gravel ROUND 1	Sand and gravel ROUND 2	Sand ROUND 1	Sand ROUND 2	Peat ROUND 1	Peat ROUND 2	Alluvium ROUND 2	Alluvium ROUND 3	Alluvium ROUND 2	Alluvium ROUND 2	Alluvium ROUND 3	Alluvium ROUND 2	Alluvium ROUND 2	MG ROUND 2	MG ROUND 3
Date	22/10/2013	02/10/2013	22/10/2013	02/10/2013	22/10/2013	02/10/2013	24/10/2013	17/12/2013	03/10/2013	23/10/2013	02/10/2013	23/10/2013	02/10/2013	22/10/2013	02/10/2013	24/10/2013	02/10/2013	22/10/2013	03/10/2013	24/10/2013	25/10/2013	18/12/2013	25/10/2013	21/10/2013	17/12/2013	22/10/2013	24/10/2013	24/10/2013	17/12/2013
Sample ID	BH37	BH38	BH38	BH40A	BH40A	BH41A	BH41A	BH41A	BH42	BH42	BH43	BH43	BH44	BH44	BH45	BH45	BH46	BH46	BH47	BH47	WS01	WS01	WS03	WS10A	WS10A	WS13	WS20	SBP02	SBP02
Depth																													
Substance																													
pH	8	7.7	7.9	7.1	7.5	7.5	8.1	7.6	7.1	7.1	7.2	7.7	7.3	7.4	7	6.8	7.4	7.7	7.2	6.9	7.2	7.4	7.4	7.5	7.6	7.6	7.3	7.3	7.5
Arsenic	18	**55**	**38**	18	11	**53**	**130**	**46**	**37**	17	11	17	9.9	14	**34**	**64**	23	18	**130**	**150**	8.7	**45**	15	8.7	7.1	**64**	**27**	13	**37**
Boron	800	1400	1300	940	750	1900	1400	1400	1400	410	910	760	1000	800	1400	1100	1200	1100	1400	970	760	680	650	920	1800	1600	510	520	1900
Cadmium	0.04	0.03	<0.02	<0.02	<0.02	**0.24**	0.18	0.11	0.03	<0.02	<0.02	0.03	<0.02	<0.02	0.03	0.03	<0.02	0.09	0.03	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.03	<0.02
Chromium (total)	4	57	5	31	3	11	11	8	33	27	23	30	29	4	34	14	55	8	67	37	15	9	15	6	23	6	6	4	16
Chromium (III)	4	**57**	**5**	**31**	3	**11**	**11**	**8**	**33**	**27**	**23**	**30**	**29**	4	**34**	**14**	**55**	**8**	**67**	**37**	**15**	**9**	**15**	**6**	**23**	**6**	**6**	4	**16**
Chromium (VI)	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**
Copper	**14**	**11**	**9.9**	**13**	**10**	**150**	**4700**	**170**	**170**	3.7	**7.5**	**12**	**7.3**	**21**	**45**	**110**	**15**	**22**	**240**	**500**	0.9	**7.1**	<0.5	1.5	4.2	**9.7**	**17**	**12**	**990**
Lead	<0.3	0.7	<0.3	0.6	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	0.4	<0.3	0.6	<0.3	0.3	<0.3	0.4	<0.3	0.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	1
Mercury	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.06**	<0.05	**7.2**	**1.4**	<0.05	<0.05	<0.05	<0.05
Nickel	5	7	4	13	7	**25**	18	9	**21**	4	9	9	4	4	14	11	7	12	**23**	18	5	8	6	7	8	6	5	11	17
Selenium	12	17	12	22	18	<0.5	<0.5	<0.5	51	3.1	12	11	12	13	48	28	29	29	<0.5	<0.5	3.7	2.5	4.1	1.9	3.6	8.2	2.9	10	<0.5
Zinc	10	<2	<2	<2	<2	6	8	9	4	2	<2	6	<2	<2	3	6	<2	8	8	4	<2	<2	<2	<2	6	<2	2	3	24
Calcium	76000	82000	95000	450000	360000	200000	160000	170000	150000	77000	210000	180000	120000	180000	250000	170000	170000	160000	200000	290000	85000	200000	72000	140000	200000	110000	78000	110000	190000
Magnesium	73000	110000	110000	140000	130000	440000	450000	440000	280000	28000	100000	95000	97000	150000	260000	250000	160000	150000	380000	410000	79000	120000	56000	100000	83000	140000	30000	36000	540000
Potassium	88000	110000	130000	170000	140000	200000	180000	180000	120000	48000	120000	120000	88000	120000	160000	130000	130000	120000	130000	120000	91000	85000	69000	96000	110000	100000	79000	50000	220000
Sodium	570000	550000	500000	410000	380000	3000000	3400000	3800000	2000000	140000	290000	280000	300000	310000	1600000	1700000	870000	850000	2900000	3300000	160000	260000	120000	95000	140000	410000	660000	270000	3700000
Iron (dissolved)	13	220	88	**9600**	12	250	200	97	240	42	130	120	190	**6900**	220	190	**1100**	34	**4300**	360	140	180	130	**2400**	81	**1200**	110	51	48
Iron (total)	37000	28000	8000	32000	38000	8600	7000	26000	11000	5800	78000	8700	14000	21000	21000	6200	52000	210000	15000	16000	59000	200000	420000	1200000	290000	120000	32000	620000	25000
Manganese (dissolved)	530	930	350	720	600	140	110	16	470	440	960	1400	410	790	670	630	500	390	610	1100	650	1100	270	650	540	930	580	930	1200
Manganese (total)	1700	1300	440	1400	740	640	490	1000	540	460	6000	1400	660	920	1100	620	2000	6700	680	1200	2300	14000	14000	46000	11000	4600	1600	38000	2200
Nitrate	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	6.2	<0.5	1.4	<0.5	<0.5	<0.5	14	<0.5	<0.5	<0.5	0.6	8	<0.5	4.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nitrite	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.1	0.8	<0.1	0.5	<0.1	2	<0.1	<0.1	<0.1	5.1	<0.1	2.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TON	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.8	<0.1	1.4	<0.1	0.3	0.2	<0.1	<0.1	3.1	0.7	<0.1	<0.1	0.1	3.3	<0.1	1.6	<0.1	<0.1	<0.1	<0.1	0.1	<0.1
Sulphate	6.7	91	<0.5	**410**	11	**1100**	**1000**	**920**	**510**	64	220	180	93	4.1	**480**	300	17	<0.5	<0.5	19	100	280	30	18	**750**	<0.5	160	180	290
Sulphide	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur	52	29	31	150	120	370	330	360	190	21	83	65	38	43	170	140	5.7	11	2.1	1.5	40	120	13	31	310	8.4	86	92	420
Chloride	40	**900**	33	**1600**	53	**7900**	**7400**	**7000**	**4900**	71	**840**	**680**	**760**	36	**3000**	**2600**	**1900**	63	**7400**	**5100**	220	**700**	130	140	45	33	**550**	230	**550**
Ammoniacal Nitrogen as N	**3.2**	**19**	**13**	**6.7**	**4**	**0.63**	**0.5**	**0.55**	**8.8**	**1.1**	**5.1**	**4.9**	**14**	**8.8**	**10**	**4.7**	**27**	**15**	**44**	**39**	**5.5**	**5.1**	**3.6**	**1.9**	**2**	**11**	**0.4**	**0.67**	**3.1**
Ammoniacal Nitrogen as NH4	**4.1**	**25**	**16**	**8.6**	**5.2**	**0.81**	**0.64**	**0.7**	**11**	**1.4**	**6.6**	**6.4**	**18**	**11**	**13**	**6**	**35**	**19**	**57**	**51**	**7.1**	**6.5**	**4.6**	**2.5**	**2.5**	**14**	**0.51**	**0.86**	**3.9**
Total Suspended Solids	2500	36	34	64	160	24	520	160	130	35	130	85	35	290	26	50	14	750	40	130	2900	26000	17000	37000	2600	8800	1700	11000	41000
Electrical Conductivity	4000	4700	4000	6600	5300	21000	21000	21000	15000	1300	3500	3600	3800	4000	13000	12000	7500	6400	21000	21000	2000	23000	1500	1700	2100	3800	4100	2200	3500
Total Alkalinity as CaCO3																													
Phenols (total)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	3.1	<0.5	0.6	<0.5	0.5	<0.5	0.7	<0.5	<0.5	<0.7	1.2	<0.5	1.6	0.6	0.9	<0.5
Cyanide (total)	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**24**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**29**	**<10**	**<10**	**<10**	**<10**	**<10**	**18**	**<10**	**<10**	**<10**	**<10**
Cyanide (free)	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**
Acenaphthene	<0.01	0.01	<0.01	0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.02	0.04	0.04	0.03	0.02	0.08	0.08
Acenaphthylene	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	0.02	<0.01	<0.01	<0.01	0.03	<0.01
Anthracene	<0.01	<0.01	0.01	0.01	<0.01	0.02	**0.16**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.02	0.04	0.02	0.07	<0.01	0.09	0.04
Benzo(a)anthracene	<0.01	0.01	<0.01	0.01	<0.01	0.05	0.34	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.02	<0.01	0.03	0.08	0.02	0.19	0.1
Benzo(a)pyrene	<0.01	0.01	<0.01	0.02	<0.01	0.04	**0.33**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	0.02	**<0.10**	0.02	**0.16**	**0.1**
Benzo(b)fluoranthene	<0.01	0.02	<0.01	0.02	<0.01	0.04	0.3	0.02	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.02	<0.01	0.02	<0.10	0.03	0.21	0.07
Benzo(ghi)perylene	<0.01	0.02	<0.01	0.03	<0.01	0.04	0.18	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	0.03	<0.10	0.02	0.19	<0.01
Benzo(k)fluoranthene	<0.01	0.01	<0.01	0.02	<0.01	0.04	0.27	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	0.02	<0.10	0.02	0.16	0.03
Chrysene	<0.01	0.02	<0.01	0.02	<0.01	0.05	0.32	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	0.03	0.05	0.04	0.21	0.07
Dibenzo(ah)anthracene	<0.01	<0.01	<0.01	0.03	<0.01	0.01	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.10	0.01	0.24	<0.01
Fluoranthene	<0.01	0.01	0.06	0.01	<0.01	0.08	**0.71**	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.03	0.04	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.02	<0.01	0.06	**0.2**	0.03	**0.18**	**0.19**
Fluorene	<0.01	0.01	<0.01	0.01	<0.01	0.01	0.07	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.02	0.02	<0.01	0.04	<0.01	0.07	0.04
Indeno(1,2,3cd)pyrene	<0.01	0.02	<0.01	0.03	<0.01	0.04	0.19	0.02	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	0.05	<0.10	0.01	0.21	<0.01
Naphthalene	<0.01	0.21	0.07	0.14	<0.01	0.02	0.13	<0.01	0.22	<0.01	0.09	<0.01	0.1	0.1	0.3	<0.01	0.03	0.16	0.34	0.04	0.06	0.02	0.83	0.05	0.04	0.39	0.04	0.08	0.04
Phenanthrene	<0.01	0.03	0.06	0.02	<0.01	0.05	0.47	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	0.03	0.03	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.02	<0.01	0.04	0.14	0.06	0.14	0.15
Pyrene	<0.01	0.02	0.06	0.02	<0.01	0.07	0.61	0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.03	0.03	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.02	<0.01	0.08	0.17	0.05	0.2	0.2
Polyaromatic Hydrocarbons (Total)	<0.01	0.4	0.26	0.41	<0.01	0.56	4.2	0.05	0.22	<0.01	0.26	<0.01	0.1	0.1	0.52	0.1	0.03	0.16	0.34	0.16	0.06	0.02	0.83	0.17	0.48	1.2	0.37	2.4	1.1
Sum of 4No. PAHs	<0.04	0.07	<0.04	0.1	<0.04	0.16	0.94	<0.06	<0.04	<0.04	0.07	<0.04	<0.04	<0.04	0.07	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.08	<0.04	0.12	<0.4	0.08	0.77	<0.12
Sum of benzo(b) and benzo(k)fluoranthene	<0.02	0.03	<0.02	**0.04**	<0.02	**0.08**	**0.57**	<0.03	<0.02	<0.02	0.03	<0.02	<0.02	<0.02	**0.04**	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	**<0.04**	<0.02	**0.04**	**<0.2**	**0.05**	**0.37**	**0.1**
Sum of indeno(123cd)pyrene and benzo(ghi)perylene	**<0.02**	**0.04**	**<0.02**	**0.06**	**<0.02**	**0.08**	**0.37**	**<0.03**	**<0.02**	**<0.02**	**0.04**	**<0.02**	**<0.02**	**<0.02**	**0.03**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.04**	**<0.02**	**0.08**	**<0.2**	**0.03**	**0.4**	**<0.02**
TPH (C8-C10)	<10	<10	<10	<10		<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10			<10	18	<10
TPH (C10-C12)	<10	<10	<10	<10		<10	<10		<10	<10	<10	51	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10			<10	28	<10
TPH (C12-C16)	15	<10	<10	<10		<10	36		<10	11	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	39			<10	20	29
TPH (C16-C21)	54	<10	31	<10		<10	59		<10	39	<10	<10	<10	<10	<10	10	<10	23	<10	16	33	30	20	110			53	270	420
TPH (C21-C35)	50	<10	51	<10		<10	58		<10	35	<10	<10	<10	<10	<10	<10	<10	67	<10	11	120	<10	39	170			240	2500	5800
TPH (C35-C40)	<10	<10	<10	<10		<10	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10			11	170	440
Total TPH (C8-C40)	110	<10	80	<10		<10	160		<10	90	<10	50	<10	<10	<10	10	<10	90	<10	30	150	30	60	320			300	3010	6690
TPH Aliphatics >C5-C6					<10			<10																	<10	<10			<10
TPH Aliphatics >C6-C8					<10			<10																	<10	<10			<10
TPH Aliphatics >C8-C10					<10			<10																	<10	<10			<10
TPH Aliphatics >C10-C12					<10			<10																	<10	<10			<10
TPH Aliphatics >C12-C16					10			<10																	<10	10			<10
TPH Aliphatics >C16-C21					20			<10																	12	30			67
TPH Aliphatics >C21-C35					30			<10																	52	10			1500
TPH Aliphatics >C35-C44					<10			<10																	<10	<10			61
TPH Total Aliphatics (C5-C44)					60			**ND**																	60	50			1600
TPH Aromatics >C6-C7					<10			<10																	<10	<10			<10
TPH Aromatics >C7-C8					<10			<10																	<10	<10			<10
TPH Aromatics >C8-C10					<10			<10																	<10	<10			<10
TPH Aromatics >C10-C12					<10			<10																	<10	<10			<10
TPH Aromatics >C12-C16					10			<10																	11	<10			<10
TPH Aromatics >C16-C21					<10			<10																	28	10			46
TPH Aromatics >C21-C35					<10			16																	63	<10			150
TPH Aromatics >C35-C44					<10			<10																	<10	<10			15
TPH Total Aromatics (C6-C44)					10			20																	100	10			210
TPH Total (Aliphatics and Aromatics)					70			20																	160	60			1800
Benzene	<1				<1		<1	<1		<1		<1										<1			<1	<1			<1
Ethylbenzene	<1				<1		<1	<1		<1		<1										<1			<1	<1			<1
Toluene	<1				<1		<1	<1		<1		<1										<1			<1	<1			<1
Meta/Para-Xylene	<1				<1		<1	<1		<1		<1										<1			<1	<1			<1
Ortho-Xylene	<1				<1		<1	<1		<1		<1										<1			<1	<1			<1
Methyl tert-Butyl Ether	<1				<1		<1	<1		<1		<1										<1			<1	<1			<1

Grontmij Limited

Date	22/10/2013	02/10/2013	22/10/2013	02/10/2013	22/10/2013	02/10/2013	24/10/2013	17/12/2013	03/10/2013	23/10/2013	02/10/2013	23/10/2013	02/10/2013	22/10/2013	02/10/2013	24/10/2013	02/10/2013	22/10/2013	03/10/2013	24/10/2013	25/10/2013	18/12/2013	25/10/2013	21/10/2013	17/12/2013	22/10/2013	24/10/2013	24/10/2013	17/12/2013
Sample ID	BH37	BH38	BH38	BH40A	BH40A	BH41A	BH41A	BH41A	BH42	BH42	BH43	BH43	BH44	BH44	BH45	BH45	BH46	BH46	BH47	BH47	WS01	WS01	WS03	WS10A	WS10A	WS13	WS20	SBP02	SBP02
Depth																													
Sum of Xylenes	<2				<2		<2	<2		<2		<2										<2			<2	<2			<2
1,1,1,2-Tetrachloroethane	<1						<1																			<1			<1
1,1,1-Trichloroethane	<1						<1																			<1			<1
1,1,2,2-Tetrachloroethane	<1						<1																			<1			<1
1,1,2-Trichloroethane	<1						<1																			<1			<1
1,1,2-Trichloroethylene (TCE)	<1						<1																			<1			<1
1,1-Dichloroethane	<1						<1																			<1			<1
1,1-Dichloroethylene	<1						<1																			<1			<1
1,1-Dichloro-1-propene	<1						<1																			<1			<1
1,2,3-Trichloropropane	<1						<1																			<1			<1
1,2,4-Trimethylbenzene	<1						<1																			<1			<1
1,2-Dibromoethane	<1						<1																			<1			<1
1,2-Dichlorobenzene	<1						<1																			<1			<1
1,2-Dichloroethane	<1						<1																			<1			<1
1,2-Dichloropropane	<1						<1																			<1			<1
1,3,5-Trimethylbenzene	<1						<1																			<1			<1
1,3-Dichlorobenzene	<1						<1																			<1			<1
1,3-Dichloropropane	<1						<1																			<1			<1
1,4-Dichlorobenzene	<1						<1																			<1			<1
2,2-Dichloropropane	<1						<1																			<1			<1
2-Chlorotoluene	<1						<1																			<1			<1
4-Chlorotoluene	<1						<1																			<1			<1
Benzene	<1						<1																			<1			<1
Bromobenzene	<1						<1																			<1			<1
Bromochloromethane	<1						<1																			<1			<1
Bromodichloromethane	<1						<1																			<1			<1
Bromoform	<1						<1																			<1			<1
Bromomethane	<1						<1																			<1			<1
Carbon tetrachloride	<1						<1																			<1			<1
Chlorobenzene	<1						<1																			<1			<1
Chlorodibromomethane	<1						<1																			<1			<1
Chloroethane	<1						<1																			<1			<1
Chloroform	<1						<1																			<1			<1
Chloromethane	<1						<1																			<1			<1
cis-1,2-Dichloroethylene	<1						<1																			<1			<1
cis-1,3-Dichloropropene	<1						<1																			<1			<1
Dibromomethane	<1						<1																			<1			<1
Dichlorodifluoromethane	<1						<1																			<1			<1
Dichloromethane	**<50**						**<50**																			**<50**			**<50**
Ethylbenzene	<1						<1																			<1			<1
Isopropylbenzene	<1						<1																			<1			<1
M/p-Xylene	<1						<1																			<1			<1
n-Propylbenzene	<1						<1																			<1			<1
o-Xylene	<1						<1																			<1			<1
p-Isopropyltoluene	<1						<1																			<1			<1
Sec-Butylbenzene	<1						<1																			<1			<1
Styrene	<1						<1																			<1			<1
Tert-Butylbenzene	<1						<1																			<1			<1
Tetrachloroethylene (PCE)	<1						<1																			<1			<1
Toluene	<1						<1																			<1			<1
trans-1,2-Dichloroethylene	<1						<1																			<1			<1
trans-1,3-Dichloropropene	<1						<1																			<1			<1
Trichlorofluoromethane	<1						<1																			<1			<1
Vinyl Chloride	<0.5						<0.5																			<0.5			<1
Sum of TCE and PCE	<2						<2																			<2			<2
1,2,4-Trichlorobenzene	<1						<1																			<1			<1
1,2-Dichlorobenzene	<1						<1																			<1			<1
1,3-Dichlorobenzene	<1						<1																			<1			<1
1,4-Dichlorobenzene	<1						<1																			<1			<1
2,4,5-Trichlorophenol	<1						<1																			<1			<1
2,4,6-Trichlorophenol	<1						<1																			<1			<1
2,4-Dichlorophenol	<1						<1																			<1			<1
2,4,-Dimethylphenol	<1						<1																			<1			<1
2,4,-Dinitrophenol	<5						<5																			<5			<5
2,4-Dinitrotoluene	<1						<1																			<1			<1
2,6-Dinitrotoluene	<1						<1																			<1			<1
2-Chloronaphthalene	<1						<1																			<1			<1
2-Chlorophenol	<1						<1																			<1			<1
2-Methylphenol	<1						<1																			<1			<1
2-Methyl naphthalene	<1						<1																			<1			<1
2-Nitroaniline	<1						<1																			<1			<1
2-Nitrophenol	<1						<1																			<1			<1
3-Nitroaniline	<1						<1																			<1			<1
3/4-Methylphenol	<1						<1																			<1			<1
4-Bromophenyl phenyl ether	<1						<1																			<1			<1
4-Chloro, 3-methylphenol	<1						<1																			<1			<1
4-Chloroaniline	<1						<1																			<1			<1
4-Chlorophenyl phenylether	<1						<1																			<1			<1
4-Nitroaniline	<1						<1																			<1			<1
4-Nitrophenol	<1						<1																			<5			<5
Acenaphthene	<1						<1																			<1			<1
Acenaphthylene	<1						<1																			<1			<1
Anthracene	**<1**						**<1**																			**<1**			**<1**
Azobenzene	<1						<1																			<1			<1
Benzo(a)anthracene	<1						<1																			<1			<1
Benzo(a)pyrene	**<1**						**<1**																			**<1**			**<1**
Benzo(b/k)fluoranthene	<1						<1																			<1			<1
Benzo(ghi)perylene	<1						<1																			<1			<1
Bis(2-chloroethoxy) methane	<1						<1																			<1			<1
Bis(2-chloroethyl)ether	<1						<1																			<1			<1
Bis(2-chloroisopropyl) ether	<1						<1																			<1			<1
Bis(2-ethylhexyl) phthalate	<1						<1																			<1			<1
Butyl benzyl phthalate	<1						<1																			<1			<1
Carbazole	<1						<1																			<1			<1
Chrysene	<1						<1																			<1			<1
Di-n-butyl phthalate	<1						<1																			<1			<1
Di-n-octyl phthalate	<1						<1																			<1			<1
Dibenz(ah)anthracene	<1						<1																			<1			<1
Dibenzofuran	<1						<1																			<1			<1
Diethyl phthalate	<1						<1																			<1			<1
Dimethyl phthalate	<1						<1																			<5			<1
Fluoranthene	**<1**						**<1**																			**<1**			**<1**
Fluorene	<1						<1																			<1			<1
Hexachlorobenzene	**<1**						**<1**																			**<1**			**<1**
Hexachlorobutadiene	**<5**						**<1**																			**<5**			**<5**
Hexachlorocyclopentadiene	<5						<5																			<5			<5
Hexachloroethane	<5						<5																			<5			<1
Indeno(1,2,3,cd)pyrene	<1						<1																			<1			<1

Date	22/10/2013	02/10/2013	22/10/2013	02/10/2013	22/10/2013	02/10/2013	24/10/2013	17/12/2013	03/10/2013	23/10/2013	02/10/2013	23/10/2013	02/10/2013	22/10/2013	02/10/2013	24/10/2013	02/10/2013	22/10/2013	03/10/2013	24/10/2013	25/10/2013	18/12/2013	25/10/2013	21/10/2013	17/12/2013	22/10/2013	24/10/2013	24/10/2013	17/12/2013
Sample ID	BH37	BH38	BH38	BH40A	BH40A	BH41A	BH41A	BH41A	BH42	BH42	BH43	BH43	BH44	BH44	BH45	BH45	BH46	BH46	BH47	BH47	WS01	WS01	WS03	WS10A	WS10A	WS13	WS20	SBP02	SBP02
Depth																													
Isophorone	<1						<1																			<1			<1
Naphthalene	<1						<1																			<1			<1
Nitrobenzene	<1						<1																			<1			<1
Pentachlorophenol	**<1**						**<1**																			**<5**			**<1**
Phenanthrene	<1						<1																			<1			<1
Phenol	<5						<5																			<5			<5
Pyrene	<1						<1																			<1			<1
PCB 101			<0.005				<0.005																				<0.005		
PCB 118			<0.005				<0.005																				<0.005		
PCB 138			<0.005				<0.005																				<0.005		
PCB 153			<0.005				<0.005																				<0.005		
PCB 180			<0.005				<0.005																				<0.005		
PCB 28			<0.005				<0.005																				<0.005		
PCB 52			<0.005				<0.005																				<0.005		
Sum of PCBs			<0.035				<0.035																				<0.035		

Substance		Screening Criteria		Number of Analyses	Reported Minimum Value	Reported Maximum Value	Statistical Mean	Standard Deviation	Number of Exceedances
		-	-						-
pH		-	-	90	6.6	8.1	7.31	0.36	-
		-	-						-
Arsenic	ug/l	25	WFD 2010 Part 4 (Coastal Waters)	90	1.1	200	54	41.3	68
Boron	ug/l	7000	UK Estuary & Coastal EQS 2004	90	48	1900	1021	501	0
Cadmium	ug/l	0.2	WFD 2010 Part 5 (Coastal Waters)	90	<0.02	0.41	0.043	0.055	2
Chromium (total)	ug/l	-	-	90	2	91	26.9	21.8	-
Chromium (III)	ug/l	4.7	WFD 2010 Part 4 (Freshwater)	90	<3	91	26.8	21.7	79
Chromium (VI)		0.6	WFD 2010 Part 4 (Coastal Waters)	90	<3	4	3.02	0.15	90
Copper	ug/l	5	WFD 2010 Part 4 (Coastal Waters)	90	<0.5	6500	446	1120	81
Lead	ug/l	7.2	WFD 2010 Part 5 (Coastal Waters)	90	<0.3	1	0.35	0.13	0
Mercury	ug/l	0.05	WFD 2010 Part 5 (Coastal Waters)	90	<0.05	7.2	0.15	0.77	10
Nickel	ug/l	20	WFD 2010 Part 5 (Coastal Waters)	90	4	56	17.2	12.2	27
Selenium	ug/l	-	-	90	<0.5	120	18.1	25.7	-
Zinc	ug/l	40	WFD 2010 Part 4 (Coastal Waters)	90	<2	35	6.32	6.23	0
		-	-						-
Calcium	ug/l	-	-	90	47000	5.40E+05	1.89E+05	1.06E+05	-
Magnesium	ug/l	-	-	90	7700	5.70E+05	2.26E+05	1.46E+05	-
Potassium	ug/l	-	-	90	3600	2.30E+05	1.06E+05	43359	-
Sodium	ug/l	-	-	90	30000	4.20E+06	1.80E+06	1.31E+06	-
Iron (dissolved)	ug/l	1000	WFD 2010 Part 4 (Coastal Waters)	87	<10	26000	1588	4624	15
Iron (total)	ug/l	-	-	87	1500	1.20E+06	97976	1.62E+05	-
Manganese (dissolved)	ug/l	-	-	87	16	8500	1175	1289	-
Manganese (total)	ug/l	-	-	87	55	46000	5803	8484	-
		-	-						-
Nitrate	mg/l	-	-	90	<0.5	37	1.78	5.42	-
Nitrite	mg/l	-	-	90	<0.1	5.1	0.24	0.61	-
TON	mg/l	-	-	90	<0.1	8.4	0.43	1.27	-
Sulphate	mg/l	400	UK Freshwater EQS 2004	90	<0.5	3300	269	471	17
Sulphide	mg/l	-	-	90	<0.05	<0.05	0.05	9.07E-17	-
Sulphur	mg/l	-	-	90	<0.01	450	97.5	127	-
Chloride	mg/l	250	UK Freshwater EQS 2004	90	33	9800	3496	2981	72
Ammoniacal Nitrogen as N	mg/l	0.021	WFD 2010 Part 4 (Coastal Waters)	90	0.028	50	13.1	11.7	90
Ammoniacal Nitrogen as NH4	mg/l	0.027	WFD 2010 Part 4 (Coastal Waters)	90	0.04	65	16.9	15.1	90
Total Suspended Solids	mg/l	-	-	90	<10	80000	4869	12241	-
Electrical Conductivity	uS/cm	-	-	90	850	27000	12036	7816	-
Total Alkalinity as CaCO3	mg/l	-	-						-
		-	-						-
Phenols (total)	ug/l	7.7	WFD 2010 Part 4 (Coastal Waters)	90	<0.5	9.4	0.93	1.35	1
Cyanide (total)	ug/l	1	WFD 2010 Part 4 (Coastal Waters)	90	<10	54	12.6	7.52	90
Cyanide (free)	ug/l	1	WFD 2010 Part 4 (Coastal Waters)	90	<10	<10	10	0	90
		-	-						-
Acenaphthene	ug/l	-	-	90	<0.01	0.09	0.02	0.02	-
Acenaphthylene	ug/l	-	-	90	<0.01	0.11	0.016	0.017	-
Anthracene	ug/l	0.1	WFD 2010 Part 5 (Coastal Waters)	90	<0.01	0.16	0.02	0.028	3
Benzo(a)anthracene	ug/l	-	-	90	<0.01	0.34	0.023	0.045	-
Benzo(a)pyrene	ug/l	0.05	WFD 2010 Part 5 (Coastal Waters)	90	<0.01	0.33	0.026	0.046	10
Benzo(b)fluoranthene	ug/l	-	-	90	<0.01	0.3	0.028	0.049	-
Benzo(ghi)perylene	ug/l	-	-	90	<0.01	0.19	0.026	0.038	-
Benzo(k)fluoranthene	ug/l	-	-	90	<0.01	0.27	0.024	0.04	-
Chrysene	ug/l	-	-	90	<0.01	0.32	0.024	0.051	-
Dibenzo(ah)anthracene	ug/l	-	-	90	<0.01	0.24	0.022	0.035	-
Fluoranthene	ug/l	0.1	WFD 2010 Part 5 (Coastal Waters)	90	<0.01	0.71	0.04	0.091	7
Fluorene	ug/l	-	-	90	<0.01	0.15	0.019	0.024	-
Indeno(1,2,3cd)pyrene	ug/l	-	-	90	<0.01	0.21	0.026	0.037	-
Naphthalene	ug/l	1.2	WFD 2010 Part 5 (Coastal Waters)	90	<0.01	4.7	0.23	0.62	2
Phenanthrene	ug/l	-	-	90	<0.01	0.63	0.043	0.098	-
Pyrene	ug/l	-	-	90	<0.01	0.61	0.036	0.078	-
Polyaromatic Hydrocarbons (Total)	ug/l	-	-	90	<0.01	4.9	0.47	0.87	-
Sum of 4No. PAHs	ug/l	-	-	90	<0.04	0.94	0.1	0.16	-
Sum of benzo(b) and benzo(k)fluoranthene	ug/l	0.03	WFD 2010 Part 5 (Coastal Waters)	90	<0.02	0.57	0.051	0.088	19
Sum of indeno(123cd)pyrene and benzo(ghi)perylene	ug/l	0.002	WFD 2010 Part 5 (Coastal Waters)	90	<0.02	0.4	0.051	0.074	90
	ug/l	-	-						-
TPH (C8-C10)	ug/l	-	-	70	<10	20	10.4	1.91	-
TPH (C10-C12)	ug/l	-	-	70	<10	51	11.8	7.15	-
TPH (C12-C16)	ug/l	-	-	70	<10	400	27.4	58.8	-
TPH (C16-C21)	ug/l	-	-	70	<10	420	35.7	65.1	-
TPH (C21-C35)	ug/l	-	-	70	<10	5800	156	748	-
TPH (C35-C40)	ug/l	-	-	70	<10	440	19.4	54.7	-
Total TPH (C8-C40)	ug/l	-	-	70	<10	6690	219	871	-
		-	-						-
TPH Aliphatics >C5-C6	ug/l	-	-	21	<10	<10	10	0	-
TPH Aliphatics >C6-C8	ug/l	-	-	21	<10	<10	10	0	-
TPH Aliphatics >C8-C10	ug/l	-	-	21	<10	<10	10	0	-
TPH Aliphatics >C10-C12	ug/l	-	-	21	<10	<50	12.9	9.02	-
TPH Aliphatics >C12-C16	ug/l	-	-	21	<10	50	18.2	14	-
TPH Aliphatics >C16-C21	ug/l	-	-	21	<10	140	28.6	32.5	-
TPH Aliphatics >C21-C35	ug/l	-	-	21	<10	1500	125	326	-
TPH Aliphatics >C35-C44	ug/l	-	-	21	<10	70	18.1	18.2	-
TPH Total Aliphatics (C5-C44)	ug/l	-	-	17	10	1600	202	384	-
		-	-						-
TPH Aromatics >C6-C7	ug/l	-	-	21	<10	<10	10	0	-
TPH Aromatics >C7-C8	ug/l	-	-	21	<10	<10	10	0	-
TPH Aromatics >C8-C10	ug/l	-	-	21	<10	<10	10	0	-
TPH Aromatics >C10-C12	ug/l	-	-	21	<10	66	15	14.7	-
TPH Aromatics >C12-C16	ug/l	-	-	21	<10	120	26.2	32.1	-
TPH Aromatics >C16-C21	ug/l	-	-	21	<10	450	58.7	109	-
TPH Aromatics >C21-C35	ug/l	-	-	21	<10	3300	238	748	-
TPH Aromatics >C35-C44	ug/l	-	-	21	<10	240	31.2	59.5	-
TPH Total Aromatics (C6-C44)	ug/l	-	-	17	10	4100	411	1033	-
		-	-						-
TPH Total (Aliphatics and Aromatics)	ug/l	-	-	19	20	4400	546	1113	-
		-	-						-
Benzene	ug/l	8	WFD 2010 Part 5 (Coastal Waters)	32	<1	<1	1	0	0
Ethylbenzene	ug/l	20	UK Estuary & Coastal EQS 2004	32	<1	<1	1	0	0
Toluene	ug/l	40	WFD 2010 Part 4 (Coastal Waters)	32	<1	<1	1	0	0
Meta/Para-Xylene	ug/l	-	-	32	<1	<1	1	0	-
Ortho-Xylene	ug/l	-	-	32	<1	<1	1	0	-
Methyl tert-Butyl Ether	ug/l	-	-	32	<1	120	5.94	21.9	-
Sum of Xylenes	ug/l	30	WFD 2010 Part 6 (Coastal Waters)	32	<2	<2	2	0	0
	ug/l	-	-						-
1,1,1,2-Tetrachloroethane	ug/l	-	-	15	<1	<1	1	0	-
1,1,1-Trichloroethane	ug/l	100	WFD 2010 Part 6 (Coastal Waters)	15	<1	<1	1	0	0
1,1,2,2-Tetrachloroethane	ug/l	-	-	15	<1	<1	1	0	-
1,1,2-Trichloroethane	ug/l	300	WFD 2010 Part 6 (Coastal Waters)	15	<1	<1	1	0	0
1,1,2-Trichloroethylene (TCE)	ug/l	10	WFD 2010 Part 5 (Coastal Waters)	15	<1	<1	1	0	0
1,1-Dichloroethane	ug/l	-	-	15	<1	<1	1	0	-
1,1-Dichloroethylene	ug/l	-	-	15	<1	<1	1	0	-
1,1-Dichloro-1-propene	ug/l	-	-	15	<1	<1	1	0	-
1,2,3-Trichloropropane	ug/l	-	-	15	<1	<1	1	0	-
1,2,4-Trimethylbenzene	ug/l	-	-	15	<1	<1	1	0	-
1,2-Dibromoethane	ug/l	-	-	15	<1	<1	1	0	-
1,2-Dichlorobenzene	ug/l	-	-	15	<1	<1	1	0	-

Substance		Screening Criteria		Number of Analyses	Reported Minimum Value	Reported Maximum Value	Statistical Mean	Standard Deviation	Number of Exceedances
1,2-Dichloroethane	ug/l	10	WFD 2010 Part 5 (Coastal Waters)	15	<1	<1	1	0	0
1,2-Dichloropropane	ug/l	-	-	15	<1	<1	1	0	-
1,3,5-Trimethylbenzene	ug/l	-	-	15	<1	<1	1	0	-
1,3-Dichlorobenzene	ug/l	-	-	15	<1	<1	1	0	-
1,3-Dichloropropane	ug/l	-	-	15	<1	<1	1	0	-
1,4-Dichlorobenzene	ug/l	-	-	15	<1	<1	1	0	-
2,2-Dichloropropane	ug/l	-	-	15	<1	<1	1	0	-
2-Chlorotoluene	ug/l	-	-	15	<1	<1	1	0	-
4-Chlorotoluene	ug/l	-	-	15	<1	<1	1	0	-
Benzene	ug/l	8	WFD 2010 Part 5 (Coastal Waters)	15	<1	<1	1	0	0
Bromobenzene	ug/l	-	-	15	<1	<1	1	0	-
Bromochloromethane	ug/l	-	-	15	<1	<1	1	0	-
Bromodichloromethane	ug/l	-	-	15	<1	<1	1	0	-
Bromoform	ug/l	-	-	15	<1	5	1.47	1.25	-
Bromomethane	ug/l	-	-	15	<1	<1	1	0	-
Carbon tetrachloride	ug/l	12	WFD 2010 Part 5 (Coastal Waters)	15	<1	<1	1	0	0
Chlorobenzene	ug/l	-	-	15	<1	<1	1	0	-
Chlorodibromomethane	ug/l	-	-	15	<1	3	1.27	0.7	-
Chloroethane	ug/l	-	-	15	<1	<1	1	0	-
Chloroform	ug/l	2.5	WFD 2010 Part 5 (Coastal Waters)	15	<1	<1	1	0	0
Chloromethane	ug/l	-	-	15	<1	<1	1	0	-
cis-1,2-Dichloroethylene	ug/l	-	-	15	<1	<1	1	0	-
cis-1,3-Dichloropropene	ug/l	-	-	15	<1	<1	1	0	-
Dibromomethane	ug/l	-	-	15	<1	<1	1	0	-
Dichlorodifluoromethane	ug/l	-	-	15	<1	<1	1	0	-
Dichloromethane	ug/l	20	WFD 2010 Part 5 (Coastal Waters)	15	<50	<50	50	0	15
Ethylbenzene	ug/l	20	UK Estuary & Coastal EQS 2004	15	<1	<1	1	0	0
Isopropylbenzene	ug/l	-	-	15	<1	<1	1	0	-
M/p-Xylene	ug/l	-	-	15	<1	<1	1	0	-
n-Propylbenzene	ug/l	-	-	15	<1	<1	1	0	-
o-Xylene	ug/l	-	-	15	<1	<1	1	0	-
p-Isopropyltoluene	ug/l	-	-	15	<1	<1	1	0	-
Sec-Butylbenzene	ug/l	-	-	15	<1	<1	1	0	-
Styrene	ug/l	50	UK Estuary & Coastal EQS 2004	15	<1	<1	1	0	0
Tert-Butylbenzene	ug/l	-	-	15	<1	<1	1	0	-
Tetrachloroethylene (PCE)	ug/l	10	WFD 2010 Part 5 (Coastal Waters)	15	<1	<1	1	0	0
Toluene	ug/l	-	-	15	<1	<1	1	0	-
trans-1,2-Dichloroethylene	ug/l	-	-	15	<1	<1	1	0	-
trans-1,3-Dichloropropene	ug/l	-	-	15	<1	<1	1	0	-
Trichlorofluoromethane	ug/l	-	-	15	<1	<1	1	0	-
Vinyl Chloride	ug/l	-	-	15	<0.5	<1	0.53	0.13	-
Sum of TCE and PCE	ug/l	-	-	15	<2	<2	2	0	-
		-	-						-
1,2,4-Trichlorobenzene	ug/l	-	-	15	<1	<1	1	0	-
1,2-Dichlorobenzene	ug/l	-	-	15	<1	<1	1	0	-
1,3-Dichlorobenzene	ug/l	-	-	15	<1	<1	1	0	-
1,4-Dichlorobenzene	ug/l	-	-	15	<1	<1	1	0	-
2,4,5-Trichlorophenol	ug/l	-	-	15	<1	<1	1	0	-
2,4,6-Trichlorophenol	ug/l	-	-	15	<1	<1	1	0	-
2,4-Dichlorophenol	ug/l	20	WFD 2010 Part 5 (Coastal Waters)	15	<1	<1	1	0	0
2,4,-Dimethylphenol	ug/l	-	-	15	<1	<1	1	0	-
2,4,-Dinitrophenol	ug/l	-	-	15	<5	<5	5	0	-
2,4-Dinitrotoluene	ug/l	-	-	15	<1	<1	1	0	-
2,6-Dinitrotoluene	ug/l	-	-	15	<1	<1	1	0	-
2-Chloronaphthalene	ug/l	-	-	15	<1	<1	1	0	-
2-Chlorophenol	ug/l	50	WFD 2010 Part 6 (Coastal Waters)	15	<1	<1	1	0	0
2-Methylphenol	ug/l	-	-	15	<1	<1	1	0	-
2-Methyl naphthalene	ug/l	-	-	15	<1	<1	1	0	-
2-Nitroaniline	ug/l	-	-	15	<1	<1	1	0	-
2-Nitrophenol	ug/l	-	-	15	<1	<1	1	0	-
3-Nitroaniline	ug/l	-	-	15	<1	<1	1	0	-
3/4-Methylphenol	ug/l	-	-	15	<1	<1	1	0	-
4-Bromophenyl phenyl ether	ug/l	-	-	15	<1	<1	1	0	-
4-Chloro, 3-methylphenol	ug/l	40	WFD 2010 Part 6 (Coastal Waters)	15	<1	<1	1	0	0
4-Chloroaniline	ug/l	-	-	15	<1	<1	1	0	-
4-Chlorophenyl phenylether	ug/l	-	-	15	<1	<1	1	0	-
4-Nitroaniline	ug/l	-	-	15	<1	<1	1	0	-
4-Nitrophenol	ug/l	-	-	15	<1	<5	3.4	2.03	-
Acenaphthene	ug/l	-	-	15	<1	<1	1	0	-
Acenaphthylene	ug/l	-	-	15	<1	<1	1	0	-
Anthracene	ug/l	0.1	WFD 2010 Part 5 (Coastal Waters)	15	<1	<1	1	0	15
Azobenzene	ug/l	-	-	15	<1	<1	1	0	-
Benzo(a)anthracene	ug/l	-	-	15	<1	<1	1	0	-
Benzo(a)pyrene	ug/l	0.05	WFD 2010 Part 5 (Coastal Waters)	15	<1	<1	1	0	15
Benzo(b/k)fluoranthene	ug/l	-	-	15	<1	<1	1	0	-
Benzo(ghi)perylene	ug/l	-	-	15	<1	<1	1	0	-
Bis(2-chloroethoxy) methane	ug/l	-	-	15	<1	<1	1	0	-
Bis(2-chloroethyl)ether	ug/l	-	-	15	<1	<1	1	0	-
Bis(2-chloroisopropyl) ether	ug/l	-	-	15	<1	<1	1	0	-
Bis(2-ethylhexyl) phthalate	ug/l	1.3	WFD 2010 Part 5 (Coastal Waters)	15	<1	<1	1	0	0
Butyl benzyl phthalate	ug/l	-	-	15	<1	<1	1	0	-
Carbazole	ug/l	-	-	15	<1	<1	1	0	-
Chrysene	ug/l	-	-	15	<1	<1	1	0	-
Di-n-butyl phthalate	ug/l	-	-	15	<1	<1	1	0	-
Di-n-octyl phthalate	ug/l	-	-	15	<1	<1	1	0	-
Dibenz(ah)anthracene	ug/l	-	-	15	<1	<1	1	0	-
Dibenzofuran	ug/l	-	-	15	<1	<1	1	0	-
Diethyl phthalate	ug/l	-	-	15	<1	<1	1	0	-
Dimethyl phthalate	ug/l	-	-	15	<1	<5	3.13	2.07	-
Fluoranthene	ug/l	0.1	WFD 2010 Part 5 (Coastal Waters)	15	<1	<1	1	0	15
Fluorene	ug/l	-	-	15	<1	<1	1	0	-
Hexachlorobenzene	ug/l	0.01	WFD 2010 Part 5 (Coastal Waters)	15	<1	<1	1	0	15
Hexachlorobutadiene	ug/l	0.1	WFD 2010 Part 5 (Coastal Waters)	15	<1	<5	3.4	2.03	15
Hexachlorocyclopentadiene	ug/l	-	-	15	<5	<5	5	0	-
Hexachloroethane	ug/l	-	-	15	<1	<5	4.47	1.41	-
Indeno(1,2,3,cd)pyrene	ug/l	-	-	15	<1	<1	1	0	-
Isophorone	ug/l	-	-	15	<1	<1	1	0	-
Naphthalene	ug/l	1.2	WFD 2010 Part 5 (Coastal Waters)	15	<1	<1	1	0	0
Nitrobenzene	ug/l	-	-	15	<1	<1	1	0	-
Pentachlorophenol	ug/l	0.4	WFD 2010 Part 5 (Coastal Waters)	15	<1	<5	2.87	2.07	15
Phenanthrene	ug/l	-	-	15	<1	<1	1	0	-
Phenol	ug/l	7.7	WFD 2010 Part 5 (Coastal Waters)	15	<5	<5	5	0	0
Pyrene	ug/l	-	-	15	<1	<1	1	0	-

Grontmij Limited

Multiplier: 1 | **x"<" A63 Castle Street - GROUNDWATER CHALK EQS**

Screening Level	Substance	Units																													
Strata			Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk	Chalk
Observed Contamination																															
Sample Description			ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 2	PRELIM RD 2	ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 3	PRELIM RD 1	PRELIM RD 2	ROUND 1	ROUND 2	PUMP TEST	ROUND 3	PRELIM RD 2	ROUND 2	PUMP TEST	ROUND 3	ROUND 1	ROUND 2	ROUND 3	PUMP TEST	PUMP TEST	PUMP TEST	PUMP TEST	PUMP TEST	PUMP TEST
Date			01/10/2013	21/10/2013	16/12/2013	01/10/2013	21/10/2013	16/09/2013	03/10/2013	25/10/2013	18/12/2013	01/10/2013	17/12/2013	05/09/2013	16/09/2013	03/10/2013	24/10/2013	28/11/2013	17/12/2013	16/09/2013	24/10/2013	28/11/2013	17/12/2013	01/10/2013	21/10/2013	17/12/2013	27/11/2013	27/11/2013	06/12/2013	09/12/2013	10/12/2013	11/12/2013
Sample ID			BH02	BH02	BH02	BH11	BH11	BH18A	BH18A	BH18A	BH18A	BH22	BH22	BH24	BH24	BH24	BH24	BH24	BH24	BH29	BH29	BH29	BH29	BH33	BH33	BH33	LDBH_01 (A)	LDBH_01 (B)	LDBH_01	LDBH_01	LDBH_01	LDBH_01
Depth		m																													
-	pH		7.5	7.1	7	8.1	11	11.7	7.2	7.2	7.4	8	6.9	7.4	7.6	7.2	7.1	7.1	7	11.9	7	7.1	7.6	7.5	7.1	6.9	7.2	7.1	7	7.1	7.2	7
25	Arsenic	ug/l	**72**	**97**	**67**	19	23	**45**	**72**	**110**	**48**	**91**	**67**	**75**	**37**	**68**	**170**	**78**	**29**	**36**	**170**	**76**	17	**64**	**40**	**54**	**130**	**110**		**320**	**96**	**310**
7000	Boron	ug/l	2100	2000	1900	1300	540	350	2000	1400	1900	1600	1900	330	380	2000	1900	2000	1600	63	1800	2000	850	1900	840	740	1900	1900		2100	2000	2100
0.2	Cadmium	ug/l	0.06	<0.02	0.02	<0.02	<0.02	0.09	0.05	0.05	0.09	<0.02	<0.02	0.04	0.11	0.07	0.04	0.03	0.02	0.15	0.03	0.04	<0.02	0.03	0.04	<0.02	0.15	0.05		0.06	0.03	0.04
-	Chromium (total)	ug/l	15	7	11	40	2	41	14	8	5	78	15	16	19	16	11	10	2	3	10	13	51	16	10	68	12	12		23	11	23
4.7	Chromium (III)	ug/l	**15**	**7**	**11**	**40**	<3	**27**	**14**	**8**	**5**	**78**	**15**	**13**	<3	**16**	**11**	**10**	<3	3	**10**	**13**	**51**	**16**	**10**	**68**	**12**	**12**		**23**	**11**	**23**
0.6	Chromium (VI)		**<3**	**<3**	**<3**	**<3**	**<3**	**14**	**<3**	**<3**	**<3**	**<3**	**<3**	**3**	**17**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**		**<3**	**<3**	**<3**
5	Copper	ug/l	**1500**	**390**	**300**	**17**	**38**	**20**	**510**	**570**	**540**	**63**	**160**	**12**	**14**	**520**	**610**	**120**	**450**	**50**	**4500**	**250**	**35**	**4500**	**55**	**120**	**94**	**160**		**74**	**200**	**49**
7.2	Lead	ug/l	0.4	<0.3	<0.3	<0.3	<0.3	**12**	<0.3	0.6	<0.3	0.3	<0.3	1.1	**17**	0.5	<0.3	<0.3	0.7	**7.9**	<0.3	<0.3	0.7	<0.3	<0.3	<0.3	<0.3	<0.3		<0.3	<0.3	<0.3
0.05	Mercury	ug/l	<0.05	<0.05	<0.05	<0.05	<0.05	**0.21**	<0.05	<0.05	**0.08**	<0.05	<0.05	<0.05	**0.08**	<0.05	<0.05	<0.05	**0.28**	**0.11**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.1**	<0.05		<0.05	<0.05	<0.05
20	Nickel	ug/l	**36**	**25**	**34**	6	**30**	6	**39**	**34**	**21**	6	18	16	14	**57**	**42**	**32**	**24**	**39**	**36**	**29**	14	**40**	10	13	**32**	**31**		**47**	**31**	**44**
-	Selenium	ug/l	<0.5	110	<0.5	6.3	44	160	<0.5	<0.5	<0.5	22	<0.5	54	57	<0.5	<0.5	<0.5	<0.5	94	<0.5	<0.5	8.8	<0.5	86	<0.5	<0.5	<0.5		210	<0.5	200
40	Zinc	ug/l	3	5	9	3	<2	2	15	10	6	<2	6	32	22	13	8	7	4	3	8	9	13	3	4	5	**51**	40		**78**	26	**57**
-	Calcium	ug/l	300000	220000	240000	53000	130000	240000	250000	350000	260000	59000	200000	130000	170000	200000	200000	240000	260000	240000	190000	240000	100000	240000	200000	200000	260000	260000	270000	210000	210000	210000
-	Magnesium	ug/l	590000	580000	630000	62000	9300	250	520000	470000	570000	110000	600000	99000	130000	530000	590000	520000	590000	<100	570000	510000	52000	520000	350000	320000	580000	580000	610000	590000	490000	580000
-	Potassium	ug/l	250000	240000	240000	76000	110000	82000	210000	210000	230000	100000	230000	62000	75000	220000	220000	210000	250000	78000	210000	200000	82000	220000	110000	100000	230000	230000	260000	220000	200000	230000
-	Sodium	ug/l	4100000	4600000	5400000	280000	1700000	1500000	3600000	4500000	4200000	970000	4600000	860000	1100000	3900000	4400000	3800000	4300000	1500000	4500000	3400000	330000	3600000	3100000	2900000	4400000	4200000	4100000	3300000	3400000	2200000
1000	Iron (dissolved)	ug/l	900	12	70	200	<10		230	200	350	**3300**	**1600**			250	220	150	310		210	150	95	280	62	130	<10	33		<10	<10	200
-	Iron (total)	ug/l	6400	6500	7800	4000	2700		8600	4100	10000	20000	10000			4600	4400	12000	24000		5500	11000	7100	8600	54000	47000	9700	6800		6600	6100	6300
-	Manganese (dissolved)	ug/l	1500	1300	1200	830	<10		510	330	500	1100	360			460	440	470	470		510	500	510	500	800	2500	420	420		400	380	420
-	Manganese (total)	ug/l	1300	1400	1300	890	190		550	340	570	1600	370			470	460	500	510		510	560	580	450	1100	3300	430	440		410	400	430
-	Nitrate	mg/l	<0.5	<0.5	<0.5	<0.5	<0.5	10	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	5	<0.5	<0.5	<0.5	<0.5	10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	<0.5
-	Nitrite	mg/l	0.1	<0.1	<0.1	0.2	<0.1	3.3	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	5.2	0.2	<0.1	<0.1	<0.1	0.8	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
-	TON	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	3.2	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	2.7	0.2	<0.1	<0.1	<0.1	2.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1
400	Sulphate	mg/l	**1500**	**1100**	**1200**	160	**480**	**610**	**1300**	**850**	**1100**	13	**1200**	130	130	**1300**	**1000**	**1200**	**1300**	320	**990**	**1100**	**1100**	**1400**	1.8	11	**1200**	**1200**		**1200**	180	**1300**
-	Sulphide	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		<0.05	0.05	<0.05
-	Sulphur	mg/l	450	480	520	71	130	210	420	390	440	5.9	470	56	74	420	420	480	500	120	410	450	120	440	5.4	4.3	420	420		480	440	490
250	Chloride	mg/l	**9800**	**7800**	**9800**	**2500**	**4300**	**3800**	**9500**	**6300**	**8100**	**1500**	**8900**	**1700**	**2100**	**11000**	**7100**	**9800**	**9700**	**3200**	**7300**	**8800**	**8800**	**9400**	**4000**	**6100**	**10000**	**9500**	**10000**	**10000**	79	**9300**
0.021	Ammoniacal Nitrogen as N	mg/l	**1.6**	**1.4**	**1.1**	**12**	**7.1**	**9.1**	**1.7**	**2.4**	**1.6**	**16**	**2**	**14**	**5.5**	**1.1**	**0.96**	**1.5**	**1.1**	**18**	**2.2**	**1.5**	**3.7**	**1.7**	**20**	**28**	**1.2**	**1.2**		**1.9**	**0.32**	**1.7**
0.027	Ammoniacal Nitrogen as NH4	mg/l	**2.1**	**1.8**	**1.4**	**16**	**9.1**	**12**	**2.2**	**3.1**	**2**	**21**	**2.6**	**17**	**7.1**	**1.4**	**1.2**	**2**	**1.4**	**23**	**2.9**	**1.9**	**4.7**	**2.2**	**26**	**37**	**1.6**	**1.5**		**2.4**	**0.39**	**2.2**
-	Total Suspended Solids	mg/l	50	120	47	130	360	27	55	41	300	580	99	210	14	<10	33	56	74	52	41	130	28	25	440	660	74	85	86	62	100	72
-	Electrical Conductivity	uS/cm	27000	23000	28000	3000	9400	10000	25000	25000	24000	7000	27000	7200	9100	25000	26000	26000	24000	7100	26000	25000	27000	26000	16000	20000	26000	26000	24000	24000	25000	24000
-	Total Alkalinity as CaCO3	mg/l																180				220					200	190	170	160	350	170
7.7	Phenols (total)	ug/l	<0.5	<0.5	<0.5	<0.5	4.4	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	1.2	<0.5	0.6	<0.5	<0.5	2.4	0.5	<0.5	0.9	<0.5	0.7	<0.5	<0.5	<0.5		<0.5	1	<0.5
1	Cyanide (total)	ug/l	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**18**	**<10**	**<10**	**150**	**<10**	**<10**	**<10**	**26**	**<10**	**17**	**<10**	**<10**	**<10**	**48**	**15**	**<10**	**<10**	**<10**	**36**	**71**		**20**	**<10**	**<10**
1	Cyanide (free)	ug/l	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**18**	**<10**	**<10**	**<10**	**25**	**<10**	**<10**	**<10**	**<10**	**24**	**31**		**<10**	**<10**	**<10**
-	Acenaphthene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.01	0.02	<0.01	<0.01		<0.01	<0.01	<0.01
-	Acenaphthylene	ug/l	<0.01	<0.01	<0.01	<0.01	0.02	0.02	0.23	<0.01	<0.01	<0.01	<0.01	0.05	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
0.1	Anthracene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
-	Benzo(a)anthracene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.02	0.03	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
0.05	Benzo(a)pyrene	ug/l	<0.01	**<0.10**	<0.01	<0.01	<0.01	0.02	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.02	<0.01	**<0.10**	0.03	<0.01	<0.01		<0.01	<0.01	<0.01
-	Benzo(b)fluoranthene	ug/l	<0.01	<0.10	0.02	<0.01	<0.01	0.02	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.01	<0.01	<0.10	0.01	0.02	<0.01		<0.01	<0.01	<0.01
-	Benzo(ghi)perylene	ug/l	<0.01	<0.10	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.10	0.01	0.01	<0.01		<0.01	<0.01	<0.01
-	Benzo(k)fluoranthene	ug/l	<0.01	<0.10	0.01	<0.01	<0.01	0.02	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01	0.01	<0.01		<0.01	<0.01	<0.01
-	Chrysene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.02	0.03	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01		<0.01	<0.01	<0.01
-	Dibenzo(ah)anthracene	ug/l	<0.01	<0.10	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01	0.02	<0.01		<0.01	<0.01	<0.01
0.1	Fluoranthene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	0.04	0.07	<0.01	<0.01	<0.01	<0.01	0.1	<0.01	<0.01	<0.01	<0.01	**0.17**	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
-	Fluorene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.09	0.02	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
-	Indeno(1,2,3cd)pyrene	ug/l	<0.01	<0.10	0.02	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	0.02	<0.01	<0.10	0.03	0.02	<0.01		<0.01	<0.01	<0.01
1.2	Naphthalene	ug/l	0.41	0.06	0.04	0.1	0.26	<0.01	**3.3**	0.07	<0.01	0.3	<0.01	0.04	<0.01	0.34	0.03	0.02	<0.01	<0.01	0.02	<0.01	0.03	0.24	0.07	0.03	0.05	0.02		<0.01	0.27	<0.01
-	Phenanthrene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	0.19	0.11	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	0.12	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.01	0.02		<0.01	<0.01	<0.01
-	Pyrene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	0.06	0.07	<0.01	<0.01	<0.01	<0.01	0.12	<0.01	<0.01	<0.01	<0.01	0.12	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01	<0.01
-	Polyaromatic Hydrocarbons (Total)	ug/l	0.41	<0.10	0.09	0.1	0.28	0.41	4.1	0.46	<0.01	0.3	<0.01	0.09	0.62	0.34	0.03	0.02	<0.01	0.64	0.02	0.07	0.08	0.24	<0.10	0.13	0.15	0.04		<0.01	0.27	<0.01
-	Sum of 4No. PAHs	ug/l	<0.04	<0.4	<0.06	<0.04	<0.04	0.08	<0.04	<0.06	<0.04	<0.04	<0.04	<0.04	0.12	<0.04	<0.04	<0.04	<0.04	0.08	<0.04	<0.04	<0.05	<0.04	<0.4	<0.06	0.06	<0.04		<0.04	<0.04	<0.04
0.03	Sum of benzo(b) and benzo(k)fluoranthene	ug/l	<0.02	**<0.2**	0.03	<0.02	<0.02	**0.04**	<0.02	**0.04**	<0.02	<0.02	<0.02	<0.02	**0.06**	<0.02	<0.02	<0.02	<0.02	**0.04**	<0.02	<0.02	<0.02	<0.02	**<0.2**	<0.02	0.03	<0.02		<0.02	<0.02	<0.02
0.002	Sum of indeno(123cd)pyrene and benzo(ghi)perylene	ug/l	**<0.02**	**<0.2**	**<0.03**	**<0.02**	**<0.02**	**0.04**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**0.06**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**0.04**	**<0.02**	**<0.02**	**<0.03**	**<0.02**	**<0.2**	**0.04**	**0.03**	**<0.02**		**<0.02**	**<0.02**	**<0.02**
-		ug/l																													
-	TPH (C8-C10)	ug/l	<10	<10	<10	<10	<10	<10	<10		<10	<10		<10	<10	<10		<10		<10		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10
-	TPH (C10-C12)	ug/l	<10	<10	<10	<10	13	<10	<10		<10	<10		<10	<10	<10		<10		<10		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10
-	TPH (C12-C16)	ug/l	<10	<10	<10	<10	<10	<10	<10		<10	<10		11	11	<10		<10		<10		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10
-	TPH (C16-C21)	ug/l	<10	<10	<10	<10	<10	12	<10		<10	<10		32	21	<10		<10		11		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10
-	TPH (C21-C35)	ug/l	<10	<10	<10	<10	31	22	51		<10	24		160	58	33		<10		20		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10
-	TPH (C35-C40)	ug/l	<10	<10	<10	<10	<10	<10	<10		<10	<10		21	<10	<10		<10		<10		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10
-	Total TPH (C8-C40)	ug/l	<10	<10	<10	<10	40	30	50		<10	20		220	90	30		<10		30		<10	<10	<10	<10	<10	<10	<10		<10	<10	<10
-																															
-	TPH Aliphatics >C5-C6	ug/l								<10			<10				<10		<10		<10		<10									
-	TPH Aliphatics >C6-C8	ug/l								<10			<10				<10		<10		<10		<10									
-	TPH Aliphatics >C8-C10	ug/l								<10			<10				<10		<10		<10		<10									
-	TPH Aliphatics >C10-C12	ug/l								<10			<10				<10		<10		180		<10									
-	TPH Aliphatics >C12-C16	ug/l								<10			<10				<10		<10		1300		<10									
-	TPH Aliphatics >C16-C21	ug/l								20			<10				15		<10		4800		<10									
-	TPH Aliphatics >C21-C35	ug/l								90			<10				33		<10		25000		<10									
-	TPH Aliphatics >C35-C44	ug/l								<10			<10				<10		<10		1700		<10									
-	TPH Total Aliphatics (C5-C44)	ug/l								110			**ND**				50		**ND**		33000		**ND**									
-																															
-	TPH Aromatics >C6-C7	ug/l								<10			<10				<10		<10		<10		<10									
-	TPH Aromatics >C7-C8	ug/l								<10			<10				<10		<10		<10		<10									
-	TPH Aromatics >C8-C10	ug/l								<10			<10				<10		<10		<10		<10									
-	TPH Aromatics >C10-C12	ug/l								<10			<10				<10		<10		27		<10									
-	TPH Aromatics >C12-C16	ug/l								<10			<10				31		<10		220		<10									
-	TPH Aromatics >C16-C21	ug/l								<10			<10				180		<10		600		<10									
-	TPH Aromatics >C21-C35	ug/l								<10			<10				1300		<10		3900		<10									
-	TPH Aromatics >C35-C44	ug/l								<10			<10				140		<10		320		<10									
-	TPH Total Aromatics (C6-C44)	ug/l								<10			**ND**				1700		**ND**		5100		**ND**									
-																															
-	TPH Total (Aliphatics and Aromatics)	ug/l								110			**ND**				1700		**ND**		38000		**ND**									
-																															
8	Benzene	ug/l								<1			<1				<1		<1		<1		<1			<1						
20	Ethylbenzene	ug/l								<1			<1				<1		<1		<1		<1			<1						
40	Toluene	ug/l								<1			<1				<1		<1		<1		<1			<1						
-	Meta/Para-Xylene	ug/l								<1			<1				<1		<1		<1		<1			<1						
-	Ortho-Xylene	ug/l								<1			<1				<1		<1		<1		<1			<1						

	Date	01/10/2013	21/10/2013	16/12/2013	01/10/2013	21/10/2013	16/09/2013	03/10/2013	25/10/2013	18/12/2013	01/10/2013	17/12/2013	05/09/2013	16/09/2013	03/10/2013	24/10/2013	28/11/2013	17/12/2013	16/09/2013	24/10/2013	28/11/2013	17/12/2013	01/10/2013	21/10/2013	17/12/2013	27/11/2013	27/11/2013	06/12/2013	09/12/2013	10/12/2013	11/12/2013
	Sample ID	BH02	BH02	BH02	BH11	BH11	BH18A	BH18A	BH18A	BH18A	BH22	BH22	BH24	BH24	BH24	BH24	BH24	BH24	BH29	BH29	BH29	BH29	BH33	BH33	BH33	LDBH_01 (A)	LDBH_01 (B)	LDBH_01	LDBH_01	LDBH_01	LDBH_01
	Depth	m																													
-	Methyl tert-Butyl Ether	ug/l							<1			<1				<1		<1		<1		<1			<1						
30	Sum of Xylenes	ug/l							<2			<2				<2		<2		<2		<2			<2						
-		ug/l																													
-	1,1,1,2-Tetrachloroethane	ug/l							<1							<1				<1											
100	1,1,1-Trichloroethane	ug/l							<1							<1				<1											
-	1,1,2,2-Tetrachloroethane	ug/l							<1							<1				<1											
300	1,1,2-Trichloroethane	ug/l							<1							<1				<1											
10	1,1,2-Trichloroethylene (TCE)	ug/l							<1							<1				<1											
-	1,1-Dichloroethane	ug/l							<1							<1				<1											
-	1,1-Dichloroethylene	ug/l							<1							<1				<1											
-	1,1-Dichloro-1-propene	ug/l							<1							<1				<1											
-	1,2,3-Trichloropropane	ug/l							<1							<1				<1											
-	1,2,4-Trimethylbenzene	ug/l							<1							<1				<1											
-	1,2-Dibromoethane	ug/l							<1							<1				<1											
-	1,2-Dichlorobenzene	ug/l							<1							<1				<1											
10	1,2-Dichloroethane	ug/l							<1							<1				<1											
-	1,2-Dichloropropane	ug/l							<1							<1				<1											
-	1,3,5-Trimethylbenzene	ug/l							<1							<1				<1											
-	1,3-Dichlorobenzene	ug/l							<1							<1				<1											
-	1,3-Dichloropropane	ug/l							<1							<1				<1											
-	1,4-Dichlorobenzene	ug/l							<1							<1				<1											
-	2,2-Dichloropropane	ug/l							<1							<1				<1											
-	2-Chlorotoluene	ug/l							<1							<1				<1											
-	4-Chlorotoluene	ug/l							<1							<1				<1											
8	Benzene	ug/l							<1							<1				<1											
-	Bromobenzene	ug/l							<1							<1				<1											
-	Bromochloromethane	ug/l							<1							<1				<1											
-	Bromodichloromethane	ug/l							<1							<1				<1											
-	Bromoform	ug/l							<1							<1				<1											
-	Bromomethane	ug/l							<1							<1				<1											
12	Carbon tetrachloride	ug/l							<1							<1				<1											
-	Chlorobenzene	ug/l							<1							<1				<1											
-	Chlorodibromomethane	ug/l							<1							<1				<1											
-	Chloroethane	ug/l							<1							<1				<1											
2.5	Chloroform	ug/l							<1							<1				<1											
-	Chloromethane	ug/l							<1							<1				<1											
-	cis-1,2-Dichloroethylene	ug/l							<1							<1				<1											
-	cis-1,3-Dichloropropene	ug/l							<1							<1				<1											
-	Dibromomethane	ug/l							<1							<1				<1											
-	Dichlorodifluoromethane	ug/l							<1							<1				<1											
20	Dichloromethane	ug/l							**<50**							**<50**				**<50**											
20	Ethylbenzene	ug/l							<1							<1				<1											
-	Isopropylbenzene	ug/l							<1							<1				<1											
-	M/p-Xylene	ug/l							<1							<1				<1											
-	n-Propylbenzene	ug/l							<1							<1				<1											
-	o-Xylene	ug/l							<1							<1				<1											
-	p-Isopropyltoluene	ug/l							<1							<1				<1											
-	Sec-Butylbenzene	ug/l							<1							<1				<1											
50	Styrene	ug/l							<1							<1				<1											
-	Tert-Butylbenzene	ug/l							<1							<1				<1											
10	Tetrachloroethylene (PCE)	ug/l							<1							<1				<1											
-	Toluene	ug/l							<1							<1				<1											
-	trans-1,2-Dichloroethylene	ug/l							<1							<1				<1											
-	trans-1,3-Dichloropropene	ug/l							<1							<1				<1											
-	Trichlorofluoromethane	ug/l							<1							<1				<1											
-	Vinyl Chloride	ug/l							<0.5							<0.5				<0.5											
-	Sum of TCE and PCE	ug/l							<2							<2				<2											
-																															
-	1,2,4-Trichlorobenzene	ug/l							<1							<1				<1											
-	1,2-Dichlorobenzene	ug/l							<1							<1				<1											
-	1,3-Dichlorobenzene	ug/l							<1							<1				<1											
-	1,4-Dichlorobenzene	ug/l							<1							<1				<1											
-	2,4,5-Trichlorophenol	ug/l							<1							<1				<1											
-	2,4,6-Trichlorophenol	ug/l							<1							<1				<1											
20	2,4-Dichlorophenol	ug/l							<1							<1				<1											
-	2,4,-Dimethylphenol	ug/l							<1							<1				<1											
-	2,4,-Dinitrophenol	ug/l							<5							<5				<5											
-	2,4-Dinitrotoluene	ug/l							<1							<1				<1											
-	2,6-Dinitrotoluene	ug/l							<1							<1				<1											
-	2-Chloronaphthalene	ug/l							<1							<1				<1											
50	2-Chlorophenol	ug/l							<1							<1				<1											
-	2-Methylphenol	ug/l							<1							<1				<1											
-	2-Methyl naphthalene	ug/l							<1							<1				<1											
-	2-Nitroaniline	ug/l							<1							<1				<1											
-	2-Nitrophenol	ug/l							<1							<1				<1											
-	3-Nitroaniline	ug/l							<1							<1				<1											
-	3/4-Methylphenol	ug/l							<1							<1				<1											
-	4-Bromophenyl phenyl ether	ug/l							<1							<1				<1											
40	4-Chloro, 3-methylphenol	ug/l							<1							<1				<1											
-	4-Chloroaniline	ug/l							<1							<1				<1											
-	4-Chlorophenyl phenylether	ug/l							<1							<1				<1											
-	4-Nitroaniline	ug/l							<1							<1				<1											
-	4-Nitrophenol	ug/l							<1							<1				<1											
-	Acenaphthene	ug/l							<1							<1				<1											
-	Acenaphthylene	ug/l							<1							<1				<1											
0.1	Anthracene	ug/l							**<1**							**<1**				**<1**											
-	Azobenzene	ug/l							<1							<1				<1											
-	Benzo(a)anthracene	ug/l							<1							<1				<1											
0.05	Benzo(a)pyrene	ug/l							**<1**							**<1**				**<1**											
-	Benzo(b/k)fluoranthene	ug/l							<1							<1				<1											
-	Benzo(ghi)perylene	ug/l							<1							<1				<1											
-	Bis(2-chloroethoxy) methane	ug/l							<1							<1				<1											
-	Bis(2-chloroethyl)ether	ug/l							<1							<1				<1											
-	Bis(2-chloroisopropyl) ether	ug/l							<1							<1				<1											
1.3	Bis(2-ethylhexyl) phthalate	ug/l							<1							<1				<1											
-	Butyl benzyl phthalate	ug/l							<1							<1				<1											
-	Carbazole	ug/l							<1							<1				<1											
-	Chrysene	ug/l							<1							<1				<1											
-	Di-n-butyl phthalate	ug/l							<1							<1				<1											
-	Di-n-octyl phthalate	ug/l							<1							<1				<1											
-	Dibenz(ah)anthracene	ug/l							<1							<1				<1											
-	Dibenzofuran	ug/l							<1							<1				<1											
-	Diethyl phthalate	ug/l							<1							<1				<1											
-	Dimethyl phthalate	ug/l							<1							<1				<1											
0.1	Fluoranthene	ug/l							**<1**							**<1**				**<1**											

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	Date		01/10/2013	21/10/2013	16/12/2013	01/10/2013	21/10/2013	16/09/2013	03/10/2013	25/10/2013	18/12/2013	01/10/2013	17/12/2013	05/09/2013	16/09/2013	03/10/2013	24/10/2013	28/11/2013	17/12/2013	16/09/2013	24/10/2013	28/11/2013	17/12/2013	01/10/2013	21/10/2013	17/12/2013	27/11/2013	27/11/2013	06/12/2013	09/12/2013	10/12/2013	11/12/2013
	Sample ID		BH02	BH02	BH02	BH11	BH11	BH18A	BH18A	BH18A	BH18A	BH22	BH22	BH24	BH24	BH24	BH24	BH24	BH24	BH29	BH29	BH29	BH29	BH33	BH33	BH33	LDBH_01 (A)	LDBH_01 (B)	LDBH_01	LDBH_01	LDBH_01	LDBH_01
	Depth	m																														
-	Fluorene	ug/l								<1							<1				<1											
0.01	Hexachlorobenzene	ug/l								**<1**							**<1**				**<1**											
0.1	Hexachlorobutadiene	ug/l								**<1**							**<1**				**<1**											
-	Hexachlorocyclopentadiene	ug/l								<5							<5				<5											
-	Hexachloroethane	ug/l								<5							<5				<5											
-	Indeno(1,2,3,cd)pyrene	ug/l								<1							<1				<1											
-	Isophorone	ug/l								<1							<1				<1											
1.2	Naphthalene	ug/l								<1							<1				<1											
-	Nitrobenzene	ug/l								<1							<1				<1											
0.4	Pentachlorophenol	ug/l								**<1**							**<1**				**<1**											
-	Phenanthrene	ug/l								<1							<1				<1											
7.7	Phenol	ug/l								<5							<5				<5											
-	Pyrene	ug/l								<1							<1				<1											
-																																
-	PCB 101	ug/l								<0.005							<0.005															
-	PCB 118	ug/l								<0.005							<0.005															
-	PCB 138	ug/l								<0.005							<0.005															
-	PCB 153	ug/l								<0.005							<0.005															
-	PCB 180	ug/l								<0.005							<0.005															
-	PCB 28	ug/l								<0.005							<0.005															
-	PCB 52	ug/l								<0.005							<0.005															
-	Sum of PCBs	ug/l								<0.035							<0.035															

1	
Strata	
Observed Contamination	
Sample Description	Chalk
	PUMP TEST
Date	18/12/2013
Sample ID	LDBH_01
Depth	
Substance	
pH	9.8
Arsenic	25
Boron	160
Cadmium	**0.89**
Chromium (total)	1
Chromium (III)	<3
Chromium (VI)	**<3**
Copper	**160**
Lead	<0.3
Mercury	**0.08**
Nickel	5
Selenium	85
Zinc	2
Calcium	170000
Magnesium	94000
Potassium	820000
Sodium	2600000
Iron (dissolved)	230
Iron (total)	4200
Manganese (dissolved)	11
Manganese (total)	110
Nitrate	<0.5
Nitrite	<0.1
TON	<0.1
Sulphate	**930**
Sulphide	<0.05
Sulphur	380
Chloride	**5500**
Ammoniacal Nitrogen as N	**23**
Ammoniacal Nitrogen as NH4	**30**
Total Suspended Solids	43
Electrical Conductivity	16000
Total Alkalinity as CaCO3	250
Phenols (total)	<0.5
Cyanide (total)	**<10**
Cyanide (free)	**<10**
Acenaphthene	<0.01
Acenaphthylene	<0.01
Anthracene	<0.01
Benzo(a)anthracene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(ghi)perylene	<0.01
Benzo(k)fluoranthene	<0.01
Chrysene	<0.01
Dibenzo(ah)anthracene	<0.01
Fluoranthene	<0.01
Fluorene	<0.01
Indeno(1,2,3cd)pyrene	<0.01
Naphthalene	<0.01
Phenanthrene	<0.01
Pyrene	<0.01
Polyaromatic Hydrocarbons (Total)	<0.01
Sum of 4No. PAHs	<0.04
Sum of benzo(b) and benzo(k)fluoranthene	<0.02
Sum of indeno(123cd)pyrene and benzo(ghi)perylene	**<0.02**
TPH (C8-C10)	<10
TPH (C10-C12)	<10
TPH (C12-C16)	100
TPH (C16-C21)	20
TPH (C21-C35)	<10
TPH (C35-C40)	<10
Total TPH (C8-C40)	120
TPH Aliphatics >C5-C6	
TPH Aliphatics >C6-C8	
TPH Aliphatics >C8-C10	
TPH Aliphatics >C10-C12	
TPH Aliphatics >C12-C16	
TPH Aliphatics >C16-C21	
TPH Aliphatics >C21-C35	
TPH Aliphatics >C35-C44	
TPH Total Aliphatics (C5-C44)	
TPH Aromatics >C6-C7	
TPH Aromatics >C7-C8	
TPH Aromatics >C8-C10	
TPH Aromatics >C10-C12	
TPH Aromatics >C12-C16	
TPH Aromatics >C16-C21	
TPH Aromatics >C21-C35	
TPH Aromatics >C35-C44	
TPH Total Aromatics (C6-C44)	
TPH Total (Aliphatics and Aromatics)	
Benzene	<1
Ethylbenzene	<1
Toluene	<1
Meta/Para-Xylene	<1
Ortho-Xylene	<1

Date	18/12/2013
Sample ID	LDBH_01
Depth	
Methyl tert-Butyl Ether	<1
Sum of Xylenes	<2
1,1,1,2-Tetrachloroethane	
1,1,1-Trichloroethane	
1,1,2,2-Tetrachloroethane	
1,1,2-Trichloroethane	
1,1,2-Trichloroethylene (TCE)	
1,1-Dichloroethane	
1,1-Dichloroethylene	
1,1-Dichloro-1-propene	
1,2,3-Trichloropropane	
1,2,4-Trimethylbenzene	
1,2-Dibromoethane	
1,2-Dichlorobenzene	
1,2-Dichloroethane	
1,2-Dichloropropane	
1,3,5-Trimethylbenzene	
1,3-Dichlorobenzene	
1,3-Dichloropropane	
1,4-Dichlorobenzene	
2,2-Dichloropropane	
2-Chlorotoluene	
4-Chlorotoluene	
Benzene	
Bromobenzene	
Bromochloromethane	
Bromodichloromethane	
Bromoform	
Bromomethane	
Carbon tetrachloride	
Chlorobenzene	
Chlorodibromomethane	
Chloroethane	
Chloroform	
Chloromethane	
cis-1,2-Dichloroethylene	
cis-1,3-Dichloropropene	
Dibromomethane	
Dichlorodifluoromethane	
Dichloromethane	
Ethylbenzene	
Isopropylbenzene	
M/p-Xylene	
n-Propylbenzene	
o-Xylene	
p-Isopropyltoluene	
Sec-Butylbenzene	
Styrene	
Tert-Butylbenzene	
Tetrachloroethylene (PCE)	
Toluene	
trans-1,2-Dichloroethylene	
trans-1,3-Dichloropropene	
Trichlorofluoromethane	
Vinyl Chloride	
Sum of TCE and PCE	
1,2,4-Trichlorobenzene	
1,2-Dichlorobenzene	
1,3-Dichlorobenzene	
1,4-Dichlorobenzene	
2,4,5-Trichlorophenol	
2,4,6-Trichlorophenol	
2,4-Dichlorophenol	
2,4,-Dimethylphenol	
2,4,-Dinitrophenol	
2,4-Dinitrotoluene	
2,6-Dinitrotoluene	
2-Chloronaphthalene	
2-Chlorophenol	
2-Methylphenol	
2-Methyl naphthalene	
2-Nitroaniline	
2-Nitrophenol	
3-Nitroaniline	
3/4-Methylphenol	
4-Bromophenyl phenyl ether	
4-Chloro, 3-methylphenol	
4-Chloroaniline	
4-Chlorophenyl phenylether	
4-Nitroaniline	
4-Nitrophenol	
Acenaphthene	
Acenaphthylene	
Anthracene	
Azobenzene	
Benzo(a)anthracene	
Benzo(a)pyrene	
Benzo(b/k)fluoranthene	
Benzo(ghi)perylene	
Bis(2-chloroethoxy) methane	
Bis(2-chloroethyl)ether	
Bis(2-chloroisopropyl) ether	
Bis(2-ethylhexyl) phthalate	
Butyl benzyl phthalate	
Carbazole	
Chrysene	
Di-n-butyl phthalate	
Di-n-octyl phthalate	
Dibenz(ah)anthracene	
Dibenzofuran	
Diethyl phthalate	
Dimethyl phthalate	
Fluoranthene	

Grontmij Limited

Date	18/12/2013
Sample ID	LDBH_01
Depth	
Fluorene	
Hexachlorobenzene	
Hexachlorobutadiene	
Hexachlorocyclopentadiene	
Hexachloroethane	
Indeno(1,2,3,cd)pyrene	
Isophorone	
Naphthalene	
Nitrobenzene	
Pentachlorophenol	
Phenanthrene	
Phenol	
Pyrene	
PCB 101	
PCB 118	
PCB 138	
PCB 153	
PCB 180	
PCB 28	
PCB 52	
Sum of PCBs	

Substance		Screening Criteria		Number of Analyses	Reported Minimum Value	Reported Maximum Value	Statistical Mean	Standard Deviation	Number of Exceedances
		-	-						-
pH		-	-	31	6.9	11.9	7.74	1.38	-
		-	-						-
Arsenic	ug/l	25	WFD 2010 Part 4 (Coastal Waters)	30	17	320	87.2	73.3	26
Boron	ug/l	7000	UK Estuary & Coastal EQS 2004	30	63	2100	1452	694	0
Cadmium	ug/l	0.2	WFD 2010 Part 5 (Coastal Waters)	30	<0.02	0.89	0.077	0.16	1
Chromium (total)	ug/l	-	-	30	1	78	18.8	18.7	-
Chromium (III)	ug/l	4.7	WFD 2010 Part 4 (Freshwater)	30	<3	78	17.8	18.4	25
Chromium (VI)		0.6	WFD 2010 Part 4 (Coastal Waters)	30	<3	17	3.83	3.2	30
Copper	ug/l	5	WFD 2010 Part 4 (Coastal Waters)	30	12	4500	536	1119	30
Lead	ug/l	7.2	WFD 2010 Part 5 (Coastal Waters)	30	<0.3	17	1.56	3.84	3
Mercury	ug/l	0.05	WFD 2010 Part 5 (Coastal Waters)	30	<0.05	0.28	0.07	0.051	7
Nickel	ug/l	20	WFD 2010 Part 5 (Coastal Waters)	30	5	57	27	13.8	20
Selenium	ug/l	-	-	30	<0.5	210	38.2	61.6	-
Zinc	ug/l	40	WFD 2010 Part 4 (Coastal Waters)	30	<2	78	14.9	18.8	3
		-	-						-
Calcium	ug/l	-	-	31	53000	3.50E+05	2.10E+05	64510	-
Magnesium	ug/l	-	-	31	<100	6.30E+05	4.02E+05	2.32E+05	-
Potassium	ug/l	-	-	31	62000	8.20E+05	2.00E+05	1.33E+05	-
Sodium	ug/l	-	-	31	2.80E+05	5.40E+06	3.14E+06	1.44E+06	-
Iron (dissolved)	ug/l	1000	WFD 2010 Part 4 (Coastal Waters)	26	<10	3300	355	686	2
Iron (total)	ug/l	-	-	26	2700	54000	11462	12461	-
Manganese (dissolved)	ug/l	-	-	26	<10	2500	648	518	-
Manganese (total)	ug/l	-	-	26	110	3300	737	649	-
		-	-						-
Nitrate	mg/l	-	-	31	<0.5	10	1.29	2.46	-
Nitrite	mg/l	-	-	31	<0.1	5.2	0.4	1.06	-
TON	mg/l	-	-	31	<0.1	3.2	0.38	0.82	-
Sulphate	mg/l	400	UK Freshwater EQS 2004	30	1.8	1500	850	496	22
Sulphide	mg/l	-	-	30	<0.05	0.05	0.05	2.12E-17	-
Sulphur	mg/l	-	-	30	4.3	520	324	182	-
Chloride	mg/l	250	UK Freshwater EQS 2004	31	79	11000	6957	3185	30
Ammoniacal Nitrogen as N	mg/l	0.021	WFD 2010 Part 4 (Coastal Waters)	30	0.32	28	6.15	7.7	30
Ammoniacal Nitrogen as NH4	mg/l	0.027	WFD 2010 Part 4 (Coastal Waters)	30	0.39	37	7.97	10	30
Total Suspended Solids	mg/l	-	-	31	<10	660	132	164	-
Electrical Conductivity	uS/cm	-	-	31	3000	28000	20574	7708	-
Total Alkalinity as CaCO3	mg/l	-	-	9	160	350	210	59.6	-
		-	-						-
Phenols (total)	ug/l	7.7	WFD 2010 Part 4 (Coastal Waters)	30	<0.5	4.4	0.78	0.78	0
Cyanide (total)	ug/l	1	WFD 2010 Part 4 (Coastal Waters)	30	<10	150	20.4	28	30
Cyanide (free)	ug/l	1	WFD 2010 Part 4 (Coastal Waters)	30	<10	31	11.9	5.3	30
		-	-						-
Acenaphthene	ug/l	-	-	30	<0.01	0.05	0.013	0.0088	-
Acenaphthylene	ug/l	-	-	30	<0.01	0.23	0.02	0.04	-
Anthracene	ug/l	0.1	WFD 2010 Part 5 (Coastal Waters)	30	<0.01	0.06	0.013	0.0099	0
Benzo(a)anthracene	ug/l	-	-	30	<0.01	0.04	0.013	0.0075	-
Benzo(a)pyrene	ug/l	0.05	WFD 2010 Part 5 (Coastal Waters)	30	<0.01	<0.1	0.019	0.023	2
Benzo(b)fluoranthene	ug/l	-	-	30	<0.01	<0.1	0.018	0.023	-
Benzo(ghi)perylene	ug/l	-	-	30	<0.01	<0.1	0.017	0.023	-
Benzo(k)fluoranthene	ug/l	-	-	30	<0.01	<0.1	0.018	0.023	-
Chrysene	ug/l	-	-	30	<0.01	0.03	0.013	0.0064	-
Dibenzo(ah)anthracene	ug/l	-	-	30	<0.01	<0.1	0.018	0.023	-
Fluoranthene	ug/l	0.1	WFD 2010 Part 5 (Coastal Waters)	30	<0.01	0.17	0.023	0.035	1
Fluorene	ug/l	-	-	30	<0.01	0.09	0.015	0.015	-
Indeno(1,2,3cd)pyrene	ug/l	-	-	30	<0.01	<0.1	0.019	0.023	-
Naphthalene	ug/l	1.2	WFD 2010 Part 5 (Coastal Waters)	30	<0.01	3.3	0.19	0.6	1
Phenanthrene	ug/l	-	-	30	<0.01	0.19	0.026	0.041	-
Pyrene	ug/l	-	-	30	<0.01	0.12	0.022	0.031	-
Polyaromatic Hydrocarbons (Total)	ug/l	-	-	30	<0.01	4.1	0.31	0.74	-
Sum of 4No. PAHs	ug/l	-	-	30	<0.04	<0.4	0.072	0.091	-
Sum of benzo(b) and benzo(k)fluoranthene	ug/l	0.03	WFD 2010 Part 5 (Coastal Waters)	30	<0.02	<0.2	0.036	0.046	6
Sum of indeno(123cd)pyrene and benzo(ghi)perylene	ug/l	0.002	WFD 2010 Part 5 (Coastal Waters)	30	<0.02	<0.2	0.036	0.045	30
	ug/l	-	-						-
TPH (C8-C10)	ug/l	-	-	25	<10	<10	10	0	-
TPH (C10-C12)	ug/l	-	-	25	<10	13	10.1	0.6	-
TPH (C12-C16)	ug/l	-	-	25	<10	100	13.7	18	-
TPH (C16-C21)	ug/l	-	-	25	<10	32	11.8	5.1	-
TPH (C21-C35)	ug/l	-	-	25	<10	160	22.8	31.5	-
TPH (C35-C40)	ug/l	-	-	25	<10	21	10.4	2.2	-
Total TPH (C8-C40)	ug/l	-	-	25	<10	220	31.6	47.8	-
		-	-						-
TPH Aliphatics >C5-C6	ug/l	-	-	6	<10	<10	10	0	-
TPH Aliphatics >C6-C8	ug/l	-	-	6	<10	<10	10	0	-
TPH Aliphatics >C8-C10	ug/l	-	-	6	<10	<10	10	0	-
TPH Aliphatics >C10-C12	ug/l	-	-	6	<10	180	38.3	69.4	-
TPH Aliphatics >C12-C16	ug/l	-	-	6	<10	1300	225	527	-
TPH Aliphatics >C16-C21	ug/l	-	-	6	<10	4800	811	1954	-
TPH Aliphatics >C21-C35	ug/l	-	-	6	<10	25000	4192	10194	-
TPH Aliphatics >C35-C44	ug/l	-	-	6	<10	1700	292	690	-
TPH Total Aliphatics (C5-C44)	ug/l	-	-	3	50	33000	11053	19006	-
		-	-						-
TPH Aromatics >C6-C7	ug/l	-	-	6	<10	<10	10	0	-
TPH Aromatics >C7-C8	ug/l	-	-	6	<10	<10	10	0	-
TPH Aromatics >C8-C10	ug/l	-	-	6	<10	<10	10	0	-
TPH Aromatics >C10-C12	ug/l	-	-	6	<10	27	12.8	6.94	-
TPH Aromatics >C12-C16	ug/l	-	-	6	<10	220	48.5	84.4	-
TPH Aromatics >C16-C21	ug/l	-	-	6	<10	600	137	237	-
TPH Aromatics >C21-C35	ug/l	-	-	6	<10	3900	873	1570	-
TPH Aromatics >C35-C44	ug/l	-	-	6	<10	320	83.3	127	-
TPH Total Aromatics (C6-C44)	ug/l	-	-	3	<10	5100	2270	2592	-
		-	-						-
TPH Total (Aliphatics and Aromatics)	ug/l	-	-	3	110	38000	13270	21432	-
		-	-						-
Benzene	ug/l	8	WFD 2010 Part 5 (Coastal Waters)	8	<1	<1	1	0	0
Ethylbenzene	ug/l	20	UK Estuary & Coastal EQS 2004	8	<1	<1	1	0	0
Toluene	ug/l	40	WFD 2010 Part 4 (Coastal Waters)	8	<1	<1	1	0	0
Meta/Para-Xylene	ug/l	-	-	8	<1	<1	1	0	-
Ortho-Xylene	ug/l	-	-	8	<1	<1	1	0	-
Methyl tert-Butyl Ether	ug/l	-	-	8	<1	<1	1	0	-
Sum of Xylenes	ug/l	30	WFD 2010 Part 6 (Coastal Waters)	8	<2	<2	2	0	0
	ug/l	-	-						-
1,1,1,2-Tetrachloroethane	ug/l	-	-	3	<1	<1	1	0	-
1,1,1-Trichloroethane	ug/l	100	WFD 2010 Part 6 (Coastal Waters)	3	<1	<1	1	0	0
1,1,2,2-Tetrachloroethane	ug/l	-	-	3	<1	<1	1	0	-
1,1,2-Trichloroethane	ug/l	300	WFD 2010 Part 6 (Coastal Waters)	3	<1	<1	1	0	0
1,1,2-Trichloroethylene (TCE)	ug/l	10	WFD 2010 Part 5 (Coastal Waters)	3	<1	<1	1	0	0
1,1-Dichloroethane	ug/l	-	-	3	<1	<1	1	0	-
1,1-Dichloroethylene	ug/l	-	-	3	<1	<1	1	0	-
1,1-Dichloro-1-propene	ug/l	-	-	3	<1	<1	1	0	-
1,2,3-Trichloropropane	ug/l	-	-	3	<1	<1	1	0	-
1,2,4-Trimethylbenzene	ug/l	-	-	3	<1	<1	1	0	-
1,2-Dibromoethane	ug/l	-	-	3	<1	<1	1	0	-
1,2-Dichlorobenzene	ug/l	-	-	3	<1	<1	1	0	-
1,2-Dichloroethane	ug/l	10	WFD 2010 Part 5 (Coastal Waters)	3	<1	<1	1	0	0
1,2-Dichloropropane	ug/l	-	-	3	<1	<1	1	0	-
1,3,5-Trimethylbenzene	ug/l	-	-	3	<1	<1	1	0	-

Grontmij Limited

Substance		Screening Criteria		Number of Analyses	Reported Minimum Value	Reported Maximum Value	Statistical Mean	Standard Deviation	Number of Exceedances
1,3-Dichlorobenzene	ug/l	-	-	3	<1	<1	1	0	-
1,3-Dichloropropane	ug/l	-	-	3	<1	<1	1	0	-
1,4-Dichlorobenzene	ug/l	-	-	3	<1	<1	1	0	-
2,2-Dichloropropane	ug/l	-	-	3	<1	<1	1	0	-
2-Chlorotoluene	ug/l	-	-	3	<1	<1	1	0	-
4-Chlorotoluene	ug/l	-	-	3	<1	<1	1	0	-
Benzene	ug/l	8	WFD 2010 Part 5 (Coastal Waters)	3	<1	<1	1	0	0
Bromobenzene	ug/l	-	-	3	<1	<1	1	0	-
Bromochloromethane	ug/l	-	-	3	<1	<1	1	0	-
Bromodichloromethane	ug/l	-	-	3	<1	<1	1	0	-
Bromoform	ug/l	-	-	3	<1	<1	1	0	-
Bromomethane	ug/l	-	-	3	<1	<1	1	0	-
Carbon tetrachloride	ug/l	12	WFD 2010 Part 5 (Coastal Waters)	3	<1	<1	1	0	0
Chlorobenzene	ug/l	-	-	3	<1	<1	1	0	-
Chlorodibromomethane	ug/l	-	-	3	<1	<1	1	0	-
Chloroethane	ug/l	-	-	3	<1	<1	1	0	-
Chloroform	ug/l	2.5	WFD 2010 Part 5 (Coastal Waters)	3	<1	<1	1	0	0
Chloromethane	ug/l	-	-	3	<1	<1	1	0	-
cis-1,2-Dichloroethylene	ug/l	-	-	3	<1	<1	1	0	-
cis-1,3-Dichloropropene	ug/l	-	-	3	<1	<1	1	0	-
Dibromomethane	ug/l	-	-	3	<1	<1	1	0	-
Dichlorodifluoromethane	ug/l	-	-	3	<1	<1	1	0	-
Dichloromethane	ug/l	20	WFD 2010 Part 5 (Coastal Waters)	3	<50	<50	50	0	3
Ethylbenzene	ug/l	20	UK Estuary & Coastal EQS 2004	3	<1	<1	1	0	0
Isopropylbenzene	ug/l	-	-	3	<1	<1	1	0	-
M/p-Xylene	ug/l	-	-	3	<1	<1	1	0	-
n-Propylbenzene	ug/l	-	-	3	<1	<1	1	0	-
o-Xylene	ug/l	-	-	3	<1	<1	1	0	-
p-Isopropyltoluene	ug/l	-	-	3	<1	<1	1	0	-
Sec-Butylbenzene	ug/l	-	-	3	<1	<1	1	0	-
Styrene	ug/l	50	UK Estuary & Coastal EQS 2004	3	<1	<1	1	0	0
Tert-Butylbenzene	ug/l	-	-	3	<1	<1	1	0	-
Tetrachloroethylene (PCE)	ug/l	10	WFD 2010 Part 5 (Coastal Waters)	3	<1	<1	1	0	0
Toluene	ug/l	-	-	3	<1	<1	1	0	-
trans-1,2-Dichloroethylene	ug/l	-	-	3	<1	<1	1	0	-
trans-1,3-Dichloropropene	ug/l	-	-	3	<1	<1	1	0	-
Trichlorofluoromethane	ug/l	-	-	3	<1	<1	1	0	-
Vinyl Chloride	ug/l	-	-	3	<0.5	<0.5	0.5	0	-
Sum of TCE and PCE	ug/l	-	-	3	<2	<2	2	0	-
		-	-						-
1,2,4-Trichlorobenzene	ug/l	-	-	3	<1	<1	1	0	-
1,2-Dichlorobenzene	ug/l	-	-	3	<1	<1	1	0	-
1,3-Dichlorobenzene	ug/l	-	-	3	<1	<1	1	0	-
1,4-Dichlorobenzene	ug/l	-	-	3	<1	<1	1	0	-
2,4,5-Trichlorophenol	ug/l	-	-	3	<1	<1	1	0	-
2,4,6-Trichlorophenol	ug/l	-	-	3	<1	<1	1	0	-
2,4-Dichlorophenol	ug/l	20	WFD 2010 Part 5 (Coastal Waters)	3	<1	<1	1	0	0
2,4,-Dimethylphenol	ug/l	-	-	3	<1	<1	1	0	-
2,4,-Dinitrophenol	ug/l	-	-	3	<5	<5	5	0	-
2,4-Dinitrotoluene	ug/l	-	-	3	<1	<1	1	0	-
2,6-Dinitrotoluene	ug/l	-	-	3	<1	<1	1	0	-
2-Chloronaphthalene	ug/l	-	-	3	<1	<1	1	0	-
2-Chlorophenol	ug/l	50	WFD 2010 Part 6 (Coastal Waters)	3	<1	<1	1	0	0
2-Methylphenol	ug/l	-	-	3	<1	<1	1	0	-
2-Methyl naphthalene	ug/l	-	-	3	<1	<1	1	0	-
2-Nitroaniline	ug/l	-	-	3	<1	<1	1	0	-
2-Nitrophenol	ug/l	-	-	3	<1	<1	1	0	-
3-Nitroaniline	ug/l	-	-	3	<1	<1	1	0	-
3/4-Methylphenol	ug/l	-	-	3	<1	<1	1	0	-
4-Bromophenyl phenyl ether	ug/l	-	-	3	<1	<1	1	0	-
4-Chloro, 3-methylphenol	ug/l	40	WFD 2010 Part 6 (Coastal Waters)	3	<1	<1	1	0	0
4-Chloroaniline	ug/l	-	-	3	<1	<1	1	0	-
4-Chlorophenyl phenylether	ug/l	-	-	3	<1	<1	1	0	-
4-Nitroaniline	ug/l	-	-	3	<1	<1	1	0	-
4-Nitrophenol	ug/l	-	-	3	<1	<1	1	0	-
Acenaphthene	ug/l	-	-	3	<1	<1	1	0	-
Acenaphthylene	ug/l	-	-	3	<1	<1	1	0	-
Anthracene	ug/l	0.1	WFD 2010 Part 5 (Coastal Waters)	3	<1	<1	1	0	3
Azobenzene	ug/l	-	-	3	<1	<1	1	0	-
Benzo(a)anthracene	ug/l	-	-	3	<1	<1	1	0	-
Benzo(a)pyrene	ug/l	0.05	WFD 2010 Part 5 (Coastal Waters)	3	<1	<1	1	0	3
Benzo(b/k)fluoranthene	ug/l	-	-	3	<1	<1	1	0	-
Benzo(ghi)perylene	ug/l	-	-	3	<1	<1	1	0	-
Bis(2-chloroethoxy) methane	ug/l	-	-	3	<1	<1	1	0	-
Bis(2-chloroethyl)ether	ug/l	-	-	3	<1	<1	1	0	-
Bis(2-chloroisopropyl) ether	ug/l	-	-	3	<1	<1	1	0	-
Bis(2-ethylhexyl) phthalate	ug/l	1.3	WFD 2010 Part 5 (Coastal Waters)	3	<1	<1	1	0	0
Butyl benzyl phthalate	ug/l	-	-	3	<1	<1	1	0	-
Carbazole	ug/l	-	-	3	<1	<1	1	0	-
Chrysene	ug/l	-	-	3	<1	<1	1	0	-
Di-n-butyl phthalate	ug/l	-	-	3	<1	<1	1	0	-
Di-n-octyl phthalate	ug/l	-	-	3	<1	<1	1	0	-
Dibenz(ah)anthracene	ug/l	-	-	3	<1	<1	1	0	-
Dibenzofuran	ug/l	-	-	3	<1	<1	1	0	-
Diethyl phthalate	ug/l	-	-	3	<1	<1	1	0	-
Dimethyl phthalate	ug/l	-	-	3	<1	<1	1	0	-
Fluoranthene	ug/l	0.1	WFD 2010 Part 5 (Coastal Waters)	3	<1	<1	1	0	3
Fluorene	ug/l	-	-	3	<1	<1	1	0	-
Hexachlorobenzene	ug/l	0.01	WFD 2010 Part 5 (Coastal Waters)	3	<1	<1	1	0	3
Hexachlorobutadiene	ug/l	0.1	WFD 2010 Part 5 (Coastal Waters)	3	<1	<1	1	0	3
Hexachlorocyclopentadiene	ug/l	-	-	3	<5	<5	5	0	-
Hexachloroethane	ug/l	-	-	3	<5	<5	5	0	-
Indeno(1,2,3,cd)pyrene	ug/l	-	-	3	<1	<1	1	0	-
Isophorone	ug/l	-	-	3	<1	<1	1	0	-
Naphthalene	ug/l	1.2	WFD 2010 Part 5 (Coastal Waters)	3	<1	<1	1	0	0
Nitrobenzene	ug/l	-	-	3	<1	<1	1	0	-
Pentachlorophenol	ug/l	0.4	WFD 2010 Part 5 (Coastal Waters)	3	<1	<1	1	0	3
Phenanthrene	ug/l	-	-	3	<1	<1	1	0	-
Phenol	ug/l	7.7	WFD 2010 Part 5 (Coastal Waters)	3	<5	<5	5	0	0
Pyrene	ug/l	-	-	3	<1	<1	1	0	-
		-	-						-
PCB 101	ug/l	-	-	2	<0.005	<0.005	0.005	0	-
PCB 118	ug/l	-	-	2	<0.005	<0.005	0.005	0	-
PCB 138	ug/l	-	-	2	<0.005	<0.005	0.005	0	-
PCB 153	ug/l	-	-	2	<0.005	<0.005	0.005	0	-
PCB 180	ug/l	-	-	2	<0.005	<0.005	0.005	0	-
PCB 28	ug/l	-	-	2	<0.005	<0.005	0.005	0	-
PCB 52	ug/l	-	-	2	<0.005	<0.005	0.005	0	-
Sum of PCBs	ug/l	-	-	2	<0.035	<0.035	0.035	0	-

Multiplier:		1 x"<"	A63 Castle Street - GROUNDWATER DUPLICATE EQS				
	Strata						
	Observed Contamination						
	Sample Description						
	Date	-	ROUND 1 02/10/2013	ROUND 2 24/10/2013	ROUND 2 25/10/2013	ROUND 2 21/10/2013	ROUND 2 22/10/2013
	Sample ID	-	D1	D5	D6	D3	D4
	Depth	m	(BH28)	(BH47)	(BH18A)	(BH02)	(BH46)
Screening Level	Substance	Units					
-							
-	pH		6.8	6.9	7.3	7.1	7.5
-							
25	Arsenic	ug/l	**63**	**160**	**130**	**59**	20
7000	Boron	ug/l	460	1000	1400	2000	1000
0.2	Cadmium	ug/l	0.03	<0.02	0.06	<0.02	<0.02
-	Chromium (total)	ug/l	47	37	9	5	8
4.7	Chromium (III)	ug/l	**47**	**37**	**9**	**5**	**8**
0.6	Chromium (VI)		**<3**	**<3**	**<3**	**<3**	**<3**
5	Copper	ug/l	**210**	**430**	**570**	**220**	**20**
7.2	Lead	ug/l	<0.3	<0.3	<0.3	<0.3	<0.3
0.05	Mercury	ug/l	<0.05	<0.05	<0.05	<0.05	<0.05
20	Nickel	ug/l	**40**	18	**32**	**28**	5
-	Selenium	ug/l	<0.5	<0.5	<0.5	130	29
40	Zinc	ug/l	3	4	9	3	<2
-							
-	Calcium	ug/l	380000	290000	360000	220000	150000
-	Magnesium	ug/l	330000	420000	480000	560000	150000
-	Potassium	ug/l	88000	120000	210000	230000	110000
-	Sodium	ug/l	2600000	3200000	4300000	4500000	850000
1000	Iron (dissolved)	ug/l	**2000**	370	210	56	74
-	Iron (total)	ug/l	130000	16000	4400	6500	54000
-	Manganese (dissolved)	ug/l	2500	1100	330	1400	450
-	Manganese (total)	ug/l	6500	1200	360	1400	1700
-							
-	Nitrate	mg/l	<0.5	0.8	1	<0.5	<0.5
-	Nitrite	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1
-	TON	mg/l	<0.1	0.2	0.2	<0.1	<0.1
400	Sulphate	mg/l	63	<0.5	**840**	**1100**	<0.5
-	Sulphide	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05
-	Sulphur	mg/l	20	1.3	390	470	7.2
250	Chloride	mg/l	**6700**	**5200**	**6000**	**7300**	66
0.021	Ammoniacal Nitrogen as N	mg/l	**30**	**26**	**2.3**	**1.8**	**15**
0.027	Ammoniacal Nitrogen as NH4	mg/l	**38**	**33**	**3**	**2.3**	**19**
-	Total Suspended Solids	mg/l	26	130	55	77	2200
-	Electrical Conductivity	uS/cm	18000	21000	25000	23000	6300
-	Total Alkalinity as CaCO3	mg/l		-	-		
-							
7.7	Phenols (total)	ug/l	<0.5	0.7	0.7	<0.5	0.7
1	Cyanide (total)	ug/l	**<10**	**<10**	**<10**	**<10**	**<10**
1	Cyanide (free)	ug/l	**<10**	**<10**	**<10**	**<10**	**<10**
-							
-	Acenaphthene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01
-	Acenaphthylene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01
0.1	Anthracene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01
-	Benzo(a)anthracene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01
0.05	Benzo(a)pyrene	ug/l	<0.01	<0.01	<0.01	**<0.10**	<0.01
-	Benzo(b)fluoranthene	ug/l	0.01	<0.01	<0.01	<0.10	<0.01
-	Benzo(ghi)perylene	ug/l	0.01	<0.01	<0.01	<0.10	<0.01
-	Benzo(k)fluoranthene	ug/l	<0.01	<0.01	<0.01	<0.10	<0.01
-	Chrysene	ug/l	0.01	<0.01	<0.01	<0.01	<0.01
-	Dibenzo(ah)anthracene	ug/l	<0.01	<0.01	<0.01	<0.10	<0.01
0.1	Fluoranthene	ug/l	0.01	<0.01	<0.01	<0.01	<0.01
-	Fluorene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01
-	Indeno(1,2,3cd)pyrene	ug/l	<0.01	<0.01	<0.01	<0.10	<0.01
1.2	Naphthalene	ug/l	0.16	0.02	0.02	0.08	0.15
-	Phenanthrene	ug/l	0.02	<0.01	<0.01	<0.01	<0.01
-	Pyrene	ug/l	0.01	<0.01	<0.01	<0.01	<0.01
-	Polyaromatic Hydrocarbons (Total)	ug/l	0.23	0.02	0.02	<0.10	0.15
-	Sum of 4No. PAHs	ug/l	<0.04	<0.04	<0.04	<0.4	<0.04
0.03	Sum of benzo(b) and benzo(k)fluoranthene	ug/l	<0.02	<0.02	<0.02	**<0.2**	<0.02
0.002	Sum of indeno(123cd)pyrene and benzo(ghi)perylene	ug/l	**<0.02**	**<0.02**	**<0.02**	**<0.2**	**<0.02**
-		ug/l					
-	TPH (C8-C10)	ug/l	<10	<10	<10	<10	<10
-	TPH (C10-C12)	ug/l	<10	15	<10	<10	<10
-	TPH (C12-C16)	ug/l	<10	<10	<10	<10	<10
-	TPH (C16-C21)	ug/l	<10	12	30	24	45
-	TPH (C21-C35)	ug/l	<10	10	53	<10	120
-	TPH (C35-C40)	ug/l	<10	<10	10	<10	15
-	Total TPH (C8-C40)	ug/l	<10	40	90	20	180

Substance		Screening Criteria		Number of Analyses	Reported Minimum Value	Reported Maximum Value	Statistical Mean	Standard Deviation	Number of Exceedances
		-	-						-
pH		-	-	5	6.8	7.5	7.12	0.29	-
		-	-						-
Arsenic	ug/l	25	WFD 2010 Part 4 (Coastal Waters)	5	20	160	86.4	57.1	4
Boron	ug/l	7000	UK Estuary & Coastal EQS 2004	5	460	2000	1172	571	0
Cadmium	ug/l	0.2	WFD 2010 Part 5 (Coastal Waters)	5	<0.02	0.06	0.03	0.017	0
Chromium (total)	ug/l	-	-	5	5	47	21.2	19.4	-
Chromium (III)	ug/l	4.7	WFD 2010 Part 4 (Freshwater)	5	5	47	21.2	19.4	5
Chromium (VI)		0.6	WFD 2010 Part 4 (Coastal Waters)	5	<3	<3	3	0	5
Copper	ug/l	5	WFD 2010 Part 4 (Coastal Waters)	5	20	570	290	213	5
Lead	ug/l	7.2	WFD 2010 Part 5 (Coastal Waters)	5	<0.3	<0.3	0.3	0	0
Mercury	ug/l	0.05	WFD 2010 Part 5 (Coastal Waters)	5	<0.05	<0.05	0.05	0	0
Nickel	ug/l	20	WFD 2010 Part 5 (Coastal Waters)	5	5	40	24.6	13.5	3
Selenium	ug/l	-	-	5	<0.5	130	32.1	56.1	-
Zinc	ug/l	40	WFD 2010 Part 4 (Coastal Waters)	5	<2	9	4.2	2.77	0
		-	-						-
Calcium	ug/l	-	-	5	1.50E+05	3.80E+05	2.80E+05	96177	-
Magnesium	ug/l	-	-	5	1.50E+05	5.60E+05	3.88E+05	1.57E+05	-
Potassium	ug/l	-	-	5	88000	2.30E+05	1.52E+05	63897	-
Sodium	ug/l	-	-	5	8.50E+05	4.50E+06	3.09E+06	1.48E+06	-
Iron (dissolved)	ug/l	1000	WFD 2010 Part 4 (Coastal Waters)	5	56	2000	542	825	1
Iron (total)	ug/l	-	-	5	4400	1.30E+05	42180	53004	-
Manganese (dissolved)	ug/l	-	-	5	330	2500	1156	873	-
Manganese (total)	ug/l	-	-	5	360	6500	2232	2437	-
		-	-						-
Nitrate	mg/l	-	-	5	<0.5	1	0.66	0.23	-
Nitrite	mg/l	-	-	5	<0.1	<0.1	0.1	0	-
TON	mg/l	-	-	5	<0.1	0.2	0.14	0.055	-
Sulphate	mg/l	400	UK Freshwater EQS 2004	5	<0.5	1100	401	528	2
Sulphide	mg/l	-	-	5	<0.05	<0.05	0.05	0	-
Sulphur	mg/l	-	-	5	1.3	470	178	232	-
Chloride	mg/l	250	UK Freshwater EQS 2004	5	66	7300	5053	2896	4
Ammoniacal Nitrogen as N	mg/l	0.021	WFD 2010 Part 4 (Coastal Waters)	5	1.8	30	15	13.1	5
Ammoniacal Nitrogen as NH4	mg/l	0.027	WFD 2010 Part 4 (Coastal Waters)	5	2.3	38	19.1	16.5	5
Total Suspended Solids	mg/l	-	-	5	26	2200	498	952	-
Electrical Conductivity	uS/cm	-	-	5	6300	25000	18660	7378	-
Total Alkalinity as CaCO3	mg/l	-	-						-
		-	-						-
Phenols (total)	ug/l	7.7	WFD 2010 Part 4 (Coastal Waters)	5	<0.5	0.7	0.62	0.11	0
Cyanide (total)	ug/l	1	WFD 2010 Part 4 (Coastal Waters)	5	<10	<10	10	0	5
Cyanide (free)	ug/l	1	WFD 2010 Part 4 (Coastal Waters)	5	<10	<10	10	0	5
		-	-						-
Acenaphthene	ug/l	-	-	5	<0.01	<0.01	0.01	0	-
Acenaphthylene	ug/l	-	-	5	<0.01	<0.01	0.01	0	-
Anthracene	ug/l	0.1	WFD 2010 Part 5 (Coastal Waters)	5	<0.01	<0.01	0.01	0	0
Benzo(a)anthracene	ug/l	-	-	5	<0.01	<0.01	0.01	0	-
Benzo(a)pyrene	ug/l	0.05	WFD 2010 Part 5 (Coastal Waters)	5	<0.01	<0.1	0.028	0.04	1
Benzo(b)fluoranthene	ug/l	-	-	5	<0.01	<0.1	0.028	0.04	-
Benzo(ghi)perylene	ug/l	-	-	5	<0.01	<0.1	0.028	0.04	-
Benzo(k)fluoranthene	ug/l	-	-	5	<0.01	<0.1	0.028	0.04	-
Chrysene	ug/l	-	-	5	<0.01	0.01	0.01	0	-
Dibenzo(ah)anthracene	ug/l	-	-	5	<0.01	<0.1	0.028	0.04	-
Fluoranthene	ug/l	0.1	WFD 2010 Part 5 (Coastal Waters)	5	<0.01	0.01	0.01	0	0
Fluorene	ug/l	-	-	5	<0.01	<0.01	0.01	0	-
Indeno(1,2,3cd)pyrene	ug/l	-	-	5	<0.01	<0.1	0.028	0.04	-
Naphthalene	ug/l	1.2	WFD 2010 Part 5 (Coastal Waters)	5	0.02	0.16	0.086	0.068	0
Phenanthrene	ug/l	-	-	5	<0.01	0.02	0.012	0.0045	-
Pyrene	ug/l	-	-	5	<0.01	0.01	0.01	0	-
Polyaromatic Hydrocarbons (Total)	ug/l	-	-	5	0.02	0.23	0.1	0.09	-
Sum of 4No. PAHs	ug/l	-	-	5	<0.04	<0.4	0.11	0.16	-
Sum of benzo(b) and benzo(k)fluoranthene	ug/l	0.03	WFD 2010 Part 5 (Coastal Waters)	5	<0.02	<0.2	0.056	0.08	1
Sum of indeno(123cd)pyrene and benzo(ghi)perylene	ug/l	0.002	WFD 2010 Part 5 (Coastal Waters)	5	<0.02	<0.2	0.056	0.08	5
	ug/l	-	-						-
TPH (C8-C10)	ug/l	-	-	5	<10	<10	10	0	-
TPH (C10-C12)	ug/l	-	-	5	<10	15	11	2.24	-
TPH (C12-C16)	ug/l	-	-	5	<10	<10	10	0	-
TPH (C16-C21)	ug/l	-	-	5	<10	45	24.2	14.3	-
TPH (C21-C35)	ug/l	-	-	5	<10	120	40.6	48.1	-
TPH (C35-C40)	ug/l	-	-	5	<10	15	11	2.24	-
Total TPH (C8-C40)	ug/l	-	-	5	<10	180	68	69.8	-
		-	-						-

Multiplier:		1	x"<"	A63 Castle Street - PUMPING TEST EQS																
	Sample Description			DOCKS	DOCKS	DOCKS	DOCKS	DOCKS	DOCKS	DOCKS	DOCKS	DOCKS	DOCKS	DOCKS	DOCKS	DOCKS	DOCKS			
	Date			05/09/2013	20/08/2013	23/10/2013	04/12/2013	09/12/2013	11/12/2013	17/12/2013	05/09/2013	20/08/2013	23/10/2013	04/12/2013	09/12/2013	11/12/2013	17/12/2013	27/11/2013	27/11/2013	06/12/2013
	Sample ID			SW2	SW2	SW2	SW2	SW2	SW2	SW2	SW3	SW3	SW3	SW3	SW3	SW3	SW3	LDBH_01 (A)	LDBH_01 (B)	LDBH_01
	Depth		m																	
Screening	Substance		Units																	
-																				
-	pH			7.7	7.7	7.7	7.8	7.8	7.7	7.7	7.9	8	7.7	7.9	7.8	7.7	7.7	7.2	7.1	7
-																				
25	Arsenic		ug/l	**270**	**32**	**110**	**220**	**210**	**220**	**48**	**260**	**34**	**93**	**260**	**200**	**210**	**59**	**130**	**110**	
7000	Boron		ug/l	1800	1800	1900	1300	1400	1500	1500	1800	1800	1900	1200	1400	1500	1400	1900	1900	
0.2	Cadmium		ug/l	0.15	0.15	0.13	0.11	0.11	0.12	0.08	0.12	0.15	0.1	0.12	0.1	0.11	0.12	0.15	0.05	
-	Chromium (total)		ug/l	18	2	12	18	16	18	10	16	2	9	17	16	17	10	12	12	
4.7	Chromium (III)		ug/l	**13**	<3	**12**	**18**	**16**	**18**	**10**	**12**	<3	**9**	**17**	**16**	**17**	**10**	**12**	**12**	
0.6	Chromium (VI)			**5**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**4**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	
5	Copper		ug/l	**67**	**170**	**12000**	**27**	**35**	**42**	**170**	**67**	**250**	**10000**	**29**	**38**	**42**	**200**	**94**	**160**	
7.2	Lead		ug/l	4.5	<0.3	<0.3	2.9	<0.3	0.3	0.4	0.5	<0.3	<0.3	2.5	<0.3	<0.3	0.5	<0.3	<0.3	
0.05	Mercury		ug/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.1	<0.05	
20	Nickel		ug/l	13	6	18	10	14	16	10	13	6	15	10	14	16	12	32	31	
-	Selenium		ug/l	120	67	<0.5	140	150	170	<0.5	95	75	<0.5	130	150	160	<0.5	<0.5	<0.5	
40	Zinc		ug/l	**41**	36	26	33	39	**47**	28	35	36	21	30	**45**	**49**	31	**51**	40	
-																				
-	Calcium		ug/l	160000	230000	180000	140000	160000	160000	160000	160000	220000	180000	140000	160000	160000	160000	260000	260000	270000
-	Magnesium		ug/l	520000	540000	590000	360000	380000	390000	430000	540000	520000	610000	350000	390000	400000	430000	580000	580000	610000
-	Potassium		ug/l	210000	230000	230000	140000	140000	150000	180000	220000	220000	240000	140000	150000	150000	170000	230000	230000	260000
-	Sodium		ug/l	3900000	3500000	4600000	2500000	2200000	2600000	3700000	4000000	3000000	4700000	2400000	2200000	2100000	3600000	4400000	4200000	4100000
1000	Iron (dissolved)		ug/l			220				76			200				84	<10	33	
-	Iron (total)		ug/l			370				330			400				500	9700	6800	
-	Manganese (dissolved)		ug/l			49				54			27				51	420	420	
-	Manganese (total)		ug/l			66				62			72				66	430	440	
-																				
-	Nitrate		mg/l	1.7	3.8	2.3	5.8	5.1	5.5	4.9	1.8	4.1	3.4	5.8	5.4	5.5	5	<0.5	<0.5	<0.5
-	Nitrite		mg/l	0.2	0.2	<0.1	0.1	<0.1	<0.1	<0.1	0.2	0.2	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
-	TON		mg/l	0.4	0.9	0.5	1.3	1.2	1.2	1.1	0.4	1	0.8	1.3	1.2	1.2	1.1	<0.1	<0.1	<0.1
400	Sulphate		mg/l	**1300**	**1300**	**1300**	**850**	**890**	**880**	**970**	**1300**	**1300**	**1300**	**860**	**880**	**720**	**980**	**1200**	**1200**	
-	Sulphide		mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
-	Sulphur		mg/l	450	410	430	300	340	350	370	450	400	430	290	340	350	370	420	420	
250	Chloride		mg/l	**9700**	**9100**	**9800**	**6000**	**6500**	**6300**	**6800**	**9700**	**9000**	**10000**	**6000**	**6600**	**5300**	**6900**	**10000**	**9500**	**10000**
0.021	Ammoniacal Nitrogen as N		mg/l	**0.57**	**0.6**	**0.55**	**0.5**	**0.31**	**0.63**	**0.69**	**0.52**	**0.55**	**0.65**	**0.45**	**0.31**	**0.48**	**1.6**	**1.2**	**1.2**	
0.027	Ammoniacal Nitrogen as NH4		mg/l	**0.73**	**0.76**	**0.71**	**0.65**	**0.4**	**0.81**	**0.88**	**0.67**	**0.7**	**0.83**	**0.57**	**0.4**	**0.61**	**2.1**	**1.6**	**1.5**	
-	Total Suspended Solids		mg/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	14	74	85	86
-	Electrical Conductivity		uS/cm	27000	2500	26000	22000	17000	18000	21000	27000	2500	26000	20000	17000	18000	21000	26000	26000	24000
-	Total Alkalinity as CaCO3		mg/l	130	130	160				110	120	120	160				120	200	190	170
-																				
7.7	Phenols (total)		ug/l	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
1	Cyanide (total)		ug/l	**<10**	**<10**	**<10**	**<10**	**10**	**<10**	**26**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**36**	**71**	
1	Cyanide (free)		ug/l	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**24**	**31**	
-																				
-	Acenaphthene		ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
-	Acenaphthylene		ug/l	0.06	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.02	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
0.1	Anthracene		ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
-	Benzo(a)anthracene		ug/l	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	
0.05	Benzo(a)pyrene		ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	
-	Benzo(b)fluoranthene		ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	
-	Benzo(ghi)perylene		ug/l	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.10	<0.02	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	
-	Benzo(k)fluoranthene		ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	
-	Chrysene		ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	
-	Dibenzo(ah)anthracene		ug/l	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.10	<0.02	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	
0.1	Fluoranthene		ug/l	<0.01	<0.01	<0.01	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	0.02	0.02	<0.01	<0.01	<0.01	
-	Fluorene		ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
-	Indeno(1,2,3cd)pyrene		ug/l	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.10	<0.02	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	
1.2	Naphthalene		ug/l	0.11	<0.01	<0.01	0.3	<0.01	<0.01	0.06	0.21	<0.01	<0.02	0.27	<0.01	<0.01	0.03	0.05	0.02	
-	Phenanthrene		ug/l	<0.01	<0.01	<0.01	0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	0.01	<0.01	<0.01	0.01	0.02	
-	Pyrene		ug/l	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	0.02	0.02	<0.01	<0.01	<0.01	
-	Polyaromatic Hydrocarbons (Total)		ug/l	0.17	<0.01	<0.01	0.36	0.08	<0.01	0.06	0.23	<0.10	<0.02	0.27	0.05	0.05	0.04	0.15	0.04	
-	Sum of 4No. PAHs		ug/l	<0.21	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.21	<0.21	<0.08	<0.04	<0.04	<0.04	<0.04	0.06	<0.04	
0.03	Sum of benzo(b) and benzo(k)fluoranthene		ug/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	**<0.04**	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	
0.002	Sum of indeno(123cd)pyrene and benzo(ghi)perylene		ug/l	**<0.2**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.2**	**<0.2**	**<0.04**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**0.03**	**<0.02**	
-			ug/l																	
-	TPH (C8-C10)		ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
-	TPH (C10-C12)		ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
-	TPH (C12-C16)		ug/l	<10	<10	23	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
-	TPH (C16-C21)		ug/l	<10	<10	24	<10	<10	<10	<10	<10	<10	29	<10	<10	<10	<10	<10	<10	
-	TPH (C21-C35)		ug/l	<10	<10	17	<10	<10	<10	<10	<10	<10	28	<10	<10	<10	<10	<10	<10	
-	TPH (C35-C40)		ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
-	Total TPH (C8-C40)		ug/l	<10	<10	60	<10	<10	<10	<10	<10	<10	60	<10	<10	<10	<10	<10	<10	
-																				
-	Total Organic Carbon (TOC)		mg/l															4	5	
-																				
-	Benzene		ug/l																	
-	Ethylbenzene		ug/l																	
-	Toluene		ug/l																	
-	Meta/Para-Xylene		ug/l																	
-	Ortho-Xylene		ug/l																	
-	Methyl tert-Butyl Ether		ug/l																	
-	Sum of Xylenes		ug/l																	
-				**BOLD**	Exceeds screening criteria															
-				**Red**	Exceeds concentrations in surface water															

1				
Sample Description				
Date	**09/12/2013**	**10/12/2013**	**11/12/2013**	**18/12/2013**
Sample ID	**LDBH_01**	**LDBH_01**	**LDBH_01**	**LDBH_01**
Depth				
Substance				
pH	7.1	7.2	7	9.8
Arsenic	**320**	**96**	**310**	25
Boron	2100	2000	2100	160
Cadmium	0.06	0.03	0.04	**0.89**
Chromium (total)	23	11	23	1
Chromium (III)	**23**	**11**	**23**	<3
Chromium (VI)	**<3**	**<3**	**<3**	**<3**
Copper	**74**	**200**	**49**	**160**
Lead	<0.3	<0.3	<0.3	<0.3
Mercury	<0.05	<0.05	<0.05	**0.08**
Nickel	**47**	**31**	**44**	5
Selenium	210	<0.5	200	85
Zinc	**78**	26	**57**	2
Calcium	210000	210000	210000	170000
Magnesium	590000	490000	580000	94000
Potassium	220000	200000	230000	820000
Sodium	3300000	3400000	2200000	2600000
Iron (dissolved)	<10	<10	200	230
Iron (total)	6600	6100	6300	4200
Manganese (dissolved)	400	380	420	11
Manganese (total)	410	400	430	110
Nitrate	<0.5	0.9	<0.5	<0.5
Nitrite	<0.1	<0.1	<0.1	<0.1
TON	<0.1	0.2	<0.1	<0.1
Sulphate	**1200**	180	**1300**	**930**
Sulphide	<0.05	0.05	<0.05	<0.05
Sulphur	480	440	490	380
Chloride	**10000**	79	**9300**	**5500**
Ammoniacal Nitrogen as N	**1.9**	**0.32**	**1.7**	**23**
Ammoniacal Nitrogen as NH4	**2.4**	**0.39**	**2.2**	**30**
Total Suspended Solids	62	100	72	43
Electrical Conductivity	24000	25000	24000	16000
Total Alkalinity as CaCO3	160	350	170	250
Phenols (total)	<0.5	1	<0.5	<0.5
Cyanide (total)	**20**	**<10**	**<10**	**<10**
Cyanide (free)	**<10**	**<10**	**<10**	**<10**
Acenaphthene	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	<0.01	<0.01	<0.01	<0.01
Anthracene	<0.01	<0.01	<0.01	<0.01
Benzo(a)anthracene	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	<0.01	<0.01	<0.01
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.01
Benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.01
Dibenzo(ah)anthracene	<0.01	<0.01	<0.01	<0.01
Fluoranthene	<0.01	<0.01	<0.01	<0.01
Fluorene	<0.01	<0.01	<0.01	<0.01
Indeno(1,2,3cd)pyrene	<0.01	<0.01	<0.01	<0.01
Naphthalene	<0.01	0.27	<0.01	<0.01
Phenanthrene	<0.01	<0.01	<0.01	<0.01
Pyrene	<0.01	<0.01	<0.01	<0.01
Polyaromatic Hydrocarbons (Total)	<0.01	0.27	<0.01	<0.01
Sum of 4No. PAHs	<0.04	<0.04	<0.04	<0.04
Sum of benzo(b) and benzo(k)fluoranthene	<0.02	<0.02	<0.02	<0.02
Sum of indeno(123cd)pyrene and benzo(ghi)perylene	**<0.02**	**<0.02**	**<0.02**	**<0.02**
TPH (C8-C10)	<10	<10	<10	<10
TPH (C10-C12)	<10	<10	<10	<10
TPH (C12-C16)	<10	<10	<10	100
TPH (C16-C21)	<10	<10	<10	20
TPH (C21-C35)	<10	<10	<10	<10
TPH (C35-C40)	<10	<10	<10	<10
Total TPH (C8-C40)	<10	<10	<10	120
Total Organic Carbon (TOC)	17	5	6	
Benzene				<1
Ethylbenzene				<1
Toluene				<1
Meta/Para-Xylene				<1
Ortho-Xylene				<1
Methyl tert-Butyl Ether				<1
Sum of Xylenes				<2

Substance		Screening Criteria		Number of Analyses	Reported Minimum Value	Reported Maximum Value	Statistical Mean	Standard Deviation	Number of Exceedances
		-	-						-
pH		-	-	21	7	9.8	7.68	0.58	-
		-	-						-
Arsenic	ug/l	25	WFD 2010 Part 4 (Coastal Waters)	20	25	320	161	97.8	19
Boron	ug/l	7000	UK Estuary & Coastal EQS 2004	20	160	2100	1618	438	0
Cadmium	ug/l	0.2	WFD 2010 Part 5 (Coastal Waters)	20	0.03	0.89	0.14	0.18	1
Chromium (total)	ug/l	-	-	20	1	23	13.2	6.33	-
Chromium (III)	ug/l	4.7	WFD 2010 Part 4 (Freshwater)	20	<3	23	12.9	5.81	17
Chromium (VI)	ug/l	0.6	WFD 2010 Part 4 (Coastal Waters)	20	<3	5	3.15	0.49	20
Copper	ug/l	5	WFD 2010 Part 4 (Coastal Waters)	20	27	12000	1194	3370	20
Lead	ug/l	7.2	WFD 2010 Part 5 (Coastal Waters)	20	<0.3	4.5	0.78	1.14	0
Mercury	ug/l	0.05	WFD 2010 Part 5 (Coastal Waters)	20	<0.05	0.1	0.054	0.013	2
Nickel	ug/l	20	WFD 2010 Part 5 (Coastal Waters)	20	5	47	18.2	12.2	5
Selenium	ug/l	-	-	20	<0.5	210	87.8	75	-
Zinc	ug/l	40	WFD 2010 Part 4 (Coastal Waters)	20	2	78	37.6	15.4	7
		-	-						-
Calcium	ug/l	-	-	21	1.40E+05	2.70E+05	1.89E+05	40409	-
Magnesium	ug/l	-	-	21	94000	6.10E+05	4.75E+05	1.26E+05	-
Potassium	ug/l	-	-	21	1.40E+05	8.20E+05	2.27E+05	1.41E+05	-
Sodium	ug/l	-	-	21	2.10E+06	4.70E+06	3.30E+06	8.67E+05	-
Iron (dissolved)	ug/l	1000	WFD 2010 Part 4 (Coastal Waters)	10	<10	230	107	94.5	0
Iron (total)	ug/l	-	-	10	330	9700	4130	3472	-
Manganese (dissolved)	ug/l	-	-	10	11	420	223	196	-
Manganese (total)	ug/l	-	-	10	62	440	249	184	-
		-	-						-
Nitrate	mg/l	-	-	21	<0.5	5.8	3.05	2.16	-
Nitrite	mg/l	-	-	21	<0.1	0.2	0.12	0.04	-
TON	mg/l	-	-	21	<0.1	1.3	0.69	0.49	-
Sulphate	mg/l	400	UK Freshwater EQS 2004	20	180	1300	1042	286	19
Sulphide	mg/l	-	-	20	<0.05	0.05	0.05	7.12E-18	-
Sulphur	mg/l	-	-	20	290	490	396	56.1	-
Chloride	mg/l	250	UK Freshwater EQS 2004	21	79	10000	7718	2485	20
Ammoniacal Nitrogen as N	mg/l	0.021	WFD 2010 Part 4 (Coastal Waters)	20	0.31	23	1.89	4.99	20
Ammoniacal Nitrogen as NH4	mg/l	0.027	WFD 2010 Part 4 (Coastal Waters)	20	0.39	30	2.45	6.52	20
Total Suspended Solids	mg/l	-	-	21	<10	100	31.7	32.7	-
Electrical Conductivity	uS/cm	-	-	21	2500	27000	20476	6967	-
Total Alkalinity as CaCO3	mg/l	-	-	15	110	350	169	62.5	-
		-	-						-
Phenols (total)	ug/l	7.7	WFD 2010 Part 4 (Coastal Waters)	20	<0.5	1.1	0.56	0.17	0
Cyanide (total)	ug/l	1	WFD 2010 Part 4 (Coastal Waters)	20	<10	71	15.7	14.7	20
Cyanide (free)	ug/l	1	WFD 2010 Part 4 (Coastal Waters)	20	<10	31	11.8	5.5	20
		-	-						-
Acenaphthene	ug/l	-	-	20	<0.01	<0.02	0.011	0.0022	-
Acenaphthylene	ug/l	-	-	20	<0.01	0.06	0.014	0.011	-
Anthracene	ug/l	0.1	WFD 2010 Part 5 (Coastal Waters)	20	<0.01	<0.02	0.011	0.0022	0
Benzo(a)anthracene	ug/l	-	-	20	<0.01	0.02	0.011	0.0031	-
Benzo(a)pyrene	ug/l	0.05	WFD 2010 Part 5 (Coastal Waters)	20	<0.01	<0.02	0.011	0.0022	0
Benzo(b)fluoranthene	ug/l	-	-	20	<0.01	0.02	0.011	0.0031	-
Benzo(ghi)perylene	ug/l	-	-	20	<0.01	<0.1	0.024	0.033	-
Benzo(k)fluoranthene	ug/l	-	-	20	<0.01	<0.02	0.011	0.0022	-
Chrysene	ug/l	-	-	20	<0.01	<0.02	0.011	0.0022	-
Dibenzo(ah)anthracene	ug/l	-	-	20	<0.01	<0.1	0.025	0.033	-
Fluoranthene	ug/l	0.1	WFD 2010 Part 5 (Coastal Waters)	20	<0.01	0.02	0.012	0.0041	0
Fluorene	ug/l	-	-	20	<0.01	<0.02	0.011	0.0022	-
Indeno(1,2,3cd)pyrene	ug/l	-	-	20	<0.01	<0.1	0.025	0.033	-
Naphthalene	ug/l	1.2	WFD 2010 Part 5 (Coastal Waters)	20	<0.01	0.3	0.072	0.1	0
Phenanthrene	ug/l	-	-	20	<0.01	0.03	0.013	0.0055	-
Pyrene	ug/l	-	-	20	<0.01	0.02	0.012	0.0041	-
Polyaromatic Hydrocarbons (Total)	ug/l	-	-	20	<0.01	0.36	0.098	0.11	-
Sum of 4No. PAHs	ug/l	-	-	20	<0.04	<0.21	0.069	0.062	-
Sum of benzo(b) and benzo(k)fluoranthene	ug/l	0.03	WFD 2010 Part 5 (Coastal Waters)	20	<0.02	<0.04	0.022	0.0049	1
Sum of indeno(123cd)pyrene and benzo(ghi)perylene	ug/l	0.002	WFD 2010 Part 5 (Coastal Waters)	20	<0.02	<0.2	0.049	0.065	20
	ug/l	-	-						-
TPH (C8-C10)	ug/l	-	-	20	<10	<10	10	0	-
TPH (C10-C12)	ug/l	-	-	20	<10	<10	10	0	-
TPH (C12-C16)	ug/l	-	-	20	<10	100	15.2	20.2	-
TPH (C16-C21)	ug/l	-	-	20	<10	29	12.2	5.45	-
TPH (C21-C35)	ug/l	-	-	20	<10	28	11.3	4.24	-
TPH (C35-C40)	ug/l	-	-	20	<10	<10	10	0	-
Total TPH (C8-C40)	ug/l	-	-	20	<10	120	20.5	28	-
		-	-						-
Total Organic Carbon (TOC)	mg/l	-	-	5	4	17	7.4	5.41	-
		-	-						-
Benzene	ug/l	-	-	1	<1	<1	1		-
Ethylbenzene	ug/l	-	-	1	<1	<1	1		-
Toluene	ug/l	-	-	1	<1	<1	1		-
Meta/Para-Xylene	ug/l	-	-	1	<1	<1	1		-
Ortho-Xylene	ug/l	-	-	1	<1	<1	1		-
Methyl tert-Butyl Ether	ug/l	-	-	1	<1	<1	1		-
Sum of Xylenes	ug/l	-	-	1	<2	<2	2		-
		-	-						-

Appendix H4: Surface Water (controlled waters – EQS)

Grontmij Limited

A63 Castle Street - SURFACE WATER EQS

Screening Level	Substance	Units	RIVER HUMBER			DOCKS (Railway Dock, west)							DOCKS (Railway Dock, east)				
Multiplier:	**1 x"<"**																
	Strata																
	Observed Contamination																
	Sample Description		ROUND 1	ROUND 2	ROUND 3	ROUND 1	PRELIM RD 1	ROUND 2	PUMP TEST	PUMP TEST	PUMP TEST	ROUND 3	ROUND 1	PRELIM RD 1	ROUND 2	PUMP TEST	PUMP TEST
	Date	-	**22-Aug-13**	**23-Oct-13**	**17-Dec-13**	**20-Aug-13**	**05-Sep-13**	**23-Oct-13**	**04-Dec-13**	**09-Dec-13**	**11-Dec-13**	**17-Dec-13**	**20-Aug-13**	**05-Sep-13**	**23-Oct-13**	**04-Dec-13**	**09-Dec-13**
	Sample ID	-	**SW1**	**SW1**	**SW1**	**SW2**	**SW2**	**SW2**	**SW2**	**SW2**	**SW2**	**SW2**	**SW3**	**SW3**	**SW3**	**SW3**	**SW3**
	Depth	m															
-																	
-	pH		7.7	7.6	7.8	7.7	7.7	7.7	7.8	7.8	7.7	7.7	8	7.9	7.7	7.9	7.8
-																	
25	Arsenic	ug/l	**42**	**120**	**52**	**32**	**270**	**110**	**220**	**210**	**220**	**48**	**34**	**260**	**93**	**260**	**200**
7000	Boron	ug/l	2200	1900	1600	1800	1800	1900	1300	1400	1500	1500	1800	1800	1900	1200	1400
0.2	Cadmium	ug/l	**0.22**	0.13	0.08	0.15	0.15	0.13	0.11	0.11	0.12	0.08	0.15	0.12	0.1	0.12	0.1
-	Chromium (total)	ug/l	3	12	8	2	18	12	18	16	18	10	2	16	9	17	16
4.7	Chromium (III)	ug/l	<3	**12**	**8**	<3	**13**	**12**	**18**	**16**	**18**	**10**	<3	**12**	**9**	**17**	**16**
0.6	Chromium (VI)		**<3**	**<3**	**<3**	**<3**	**5**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**4**	**<3**	**<3**	**<3**
5	Copper	ug/l	**320**	**8900**	**190**	**170**	**67**	**12000**	**27**	**35**	**42**	**170**	**250**	**67**	**10000**	**29**	**38**
7.2	Lead	ug/l	0.5	0.6	<0.3	<0.3	4.5	<0.3	2.9	<0.3	0.3	0.4	<0.3	0.5	<0.3	2.5	<0.3
0.05	Mercury	ug/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
20	Nickel	ug/l	7	19	10	6	13	18	10	14	16	10	6	13	15	10	14
-	Selenium	ug/l	120	<0.5	<0.5	67	120	<0.5	140	150	170	<0.5	75	95	<0.5	130	150
40	Zinc	ug/l	13	8	10	36	**41**	26	33	39	**47**	28	36	35	21	30	**45**
-																	
-	Calcium	ug/l	190000	180000	170000	230000	160000	180000	140000	160000	160000	160000	220000	160000	180000	140000	160000
-	Magnesium	ug/l	640000	600000	490000	540000	520000	590000	360000	380000	390000	430000	520000	540000	610000	350000	390000
-	Potassium	ug/l	280000	240000	200000	230000	210000	230000	140000	140000	150000	180000	220000	220000	240000	140000	150000
-	Sodium	ug/l	4300000	4800000	4100000	3500000	3900000	4600000	2500000	2200000	2600000	3700000	3000000	4000000	4700000	2400000	2200000
1000	Iron (dissolved)	ug/l		480	85			220				76			200		
-	Iron (total)	ug/l		20000	200000			370				330			400		
-	Manganese (dissolved)	ug/l		<10	<10			49				54			27		
-	Manganese (total)	ug/l		700	15000			66				62			72		
-																	
-	Nitrate	mg/l	3.6	1.6	1	3.8	1.7	2.3	5.8	5.1	5.5	4.9	4.1	1.8	3.4	5.8	5.4
-	Nitrite	mg/l	<0.1	<0.1	<0.1	0.2	0.2	<0.1	0.1	<0.1	<0.1	<0.1	0.2	0.2	<0.1	0.1	<0.1
-	TON	mg/l	0.8	0.4	1	0.9	0.4	0.5	1.3	1.2	1.2	1.1	1	0.4	0.8	1.3	1.2
400	Sulphate	mg/l	**1400**	**1300**	**990**	**1300**	**1300**	**1300**	**850**	**890**	**880**	**970**	**1300**	**1300**	**1300**	**860**	**880**
-	Sulphide	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
-	Sulphur	mg/l	490	440	400	410	450	430	300	340	350	370	400	450	430	290	340
250	Chloride	mg/l	**11000**	**9900**	**7200**	**9100**	**9700**	**9800**	**6000**	**6500**	**6300**	**6800**	**9000**	**9700**	**10000**	**6000**	**6600**
0.021	Ammoniacal Nitrogen as N	mg/l	**0.49**	**0.47**	**0.75**	**0.6**	**0.57**	**0.55**	**0.5**	**0.31**	**0.63**	**0.69**	**0.55**	**0.52**	**0.65**	**0.45**	**0.31**
0.027	Ammoniacal Nitrogen as NH4	mg/l	**0.63**	**0.6**	**0.97**	**0.76**	**0.73**	**0.71**	**0.65**	**0.4**	**0.81**	**0.88**	**0.7**	**0.67**	**0.83**	**0.57**	**0.4**
-	Total Suspended Solids	mg/l	47	500	160	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
-	Electrical Conductivity	uS/cm	2900	26000	22000	2500	27000	26000	22000	17000	18000	21000	2500	27000	26000	20000	17000
-	Total Alkalinity as CaCO3	mg/l	130	150	130	130	130	160				110	120	120	160		
-																	
7.7	Phenols (total)	ug/l	<0.5	0.7	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	<0.5	<0.5
1	Cyanide (total)	ug/l	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**10**	**<10**	**26**	**<10**	**<10**	**<10**	**<10**	**<10**
1	Cyanide (free)	ug/l	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**
-																	
-	Acenaphthene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01
-	Acenaphthylene	ug/l	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.02	<0.02	<0.01	<0.01
0.1	Anthracene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01
-	Benzo(a)anthracene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01
0.05	Benzo(a)pyrene	ug/l	<0.01	<0.01	**0.07**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01
-	Benzo(b)fluoranthene	ug/l	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01
-	Benzo(ghi)perylene	ug/l	<0.01	<0.01	0.02	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.10	<0.02	<0.01	<0.01
-	Benzo(k)fluoranthene	ug/l	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01
-	Chrysene	ug/l	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01
-	Dibenzo(ah)anthracene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.10	<0.02	<0.01	<0.01
0.1	Fluoranthene	ug/l	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	0.02
-	Fluorene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01
-	Indeno(1,2,3cd)pyrene	ug/l	<0.01	<0.01	0.03	<0.01	<0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.10	<0.10	<0.02	<0.01	<0.01
1.2	Naphthalene	ug/l	<0.01	<0.01	<0.01	<0.01	0.11	<0.01	0.3	<0.01	<0.01	0.06	<0.01	0.21	<0.02	0.27	<0.01
-	Phenanthrene	ug/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	0.01
-	Pyrene	ug/l	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	0.02
-	Polyaromatic Hydrocarbons (Total)	ug/l	<0.01	<0.01	0.21	<0.01	0.17	<0.01	0.36	0.08	<0.01	0.06	<0.10	0.23	<0.02	0.27	0.05
-	Sum of 4No. PAHs	ug/l	<0.04	<0.04	0.1	<0.04	<0.22	<0.04	<0.04	<0.04	<0.04	<0.04	<0.22	<0.22	<0.08	<0.04	<0.04
0.03	Sum of benzo(b) and benzo(k)fluoranthene	ug/l	<0.02	<0.02	**0.05**	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	**<0.04**	<0.02	<0.02
0.002	Sum of indeno(123cd)pyrene and benzo(ghi)perylene	ug/l	**<0.02**	**<0.02**	**0.05**	**<0.02**	**<0.2**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.02**	**<0.2**	**<0.2**	**<0.04**	**<0.02**	**<0.02**
-		ug/l															
-	TPH (C8-C10)	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
-	TPH (C10-C12)	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
-	TPH (C12-C16)	ug/l	<10	<10	<10	<10	<10	23	<10	<10	<10	<10	<10	<10	<10	<10	<10
-	TPH (C16-C21)	ug/l	<10	46	<10	<10	<10	24	<10	<10	<10	<10	<10	<10	29	<10	<10
-	TPH (C21-C35)	ug/l	<10	76	<10	<10	<10	17	<10	<10	<10	<10	<10	<10	28	<10	<10
-	TPH (C35-C40)	ug/l	<10	20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
-	Total TPH (C8-C40)	ug/l	<10	150	<10	<10	<10	60	<10	<10	<10	<10	<10	<10	60	<10	<10
-																	

1											
Strata											
Observed Contamination											
Sample Description			**DOCKS (Humber Dock)**			**RIVER HULL (Upstream/North of A63)**			**RIVER HULL (Downstream/South of A63)**		
	PUMP TEST	ROUND 3	ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 2	ROUND 3	ROUND 1	ROUND 2	ROUND 3
Date	**11-Dec-13**	**17-Dec-13**	**20-Aug-13**	**23-Oct-13**	**17-Dec-13**	**22-Aug-13**	**23-Oct-13**	**17-Dec-13**	**22-Aug-13**	**23-Oct-13**	**17-Dec-13**
Sample ID	**SW3**	**SW3**	**SW4**	**SW4**	**SW4**	**SW5**	**SW5**	**SW5**	**SW6**	**SW6**	**SW6**
Depth											
Substance											
pH	7.7	7.7	7.9	7.6	7.7	7.8	7.6	7.8	7.7	7.5	7.8
Arsenic	**210**	**59**	**33**	**65**	**51**	**40**	**54**	**40**	**35**	**58**	**34**
Boron	1500	1400	1800	1900	1400	2100	780	900	2200	910	1100
Cadmium	0.11	0.12	0.15	0.08	0.12	0.14	0.07	0.04	0.13	0.08	0.1
Chromium (total)	17	10	2	10	10	2	10	10	2	9	8
Chromium (III)	**17**	**10**	<3	**10**	**10**	<3	**10**	**10**	<3	**9**	**8**
Chromium (VI)	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**	**<3**
Copper	**42**	**200**	**230**	**370**	**170**	**280**	**210**	**92**	**170**	**290**	**82**
Lead	<0.3	0.5	<0.3	<0.3	0.5	0.6	<0.3	<0.3	0.7	<0.3	0.3
Mercury	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	16	12	6	10	11	6	8	7	6	9	7
Selenium	160	<0.5	69	19	<0.5	110	24	35	100	19	33
Zinc	**49**	31	28	7	31	12	6	8	12	6	8
Calcium	160000	160000	210000	180000	160000	170000	120000	130000	170000	130000	150000
Magnesium	400000	430000	490000	610000	430000	650000	210000	260000	600000	260000	320000
Potassium	150000	170000	200000	240000	170000	280000	78000	110000	260000	100000	120000
Sodium	2100000	3600000	3200000	4600000	3500000	4300000	1600000	2100000	4000000	1900000	2600000
Iron (dissolved)		84		210	82		180	71		190	73
Iron (total)		500		2400	1900		34000	59000		52000	72000
Manganese (dissolved)		51		18	50		<10	<10		<10	<10
Manganese (total)		66		150	150		1500	2900		2000	3800
Nitrate	5.5	5	4.3	2	5.6	2.5	19	15	1.9	15	12
Nitrite	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TON	1.2	1.1	1	0.4	1.3	0.6	4.3	3.4	0.5	3.4	2.6
Sulphate	**720**	**980**	**1300**	**1300**	**930**	**1500**	**540**	**610**	**1400**	**630**	**730**
Sulphide	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Sulphur	350	370	390	430	360	470	170	240	490	200	290
Chloride	**5300**	**6900**	**8900**	**10000**	**6700**	**12000**	**3500**	**4100**	**12000**	**4200**	**5000**
Ammoniacal Nitrogen as N	**0.48**	**1.6**	**0.54**	**0.55**	**0.74**	**0.44**	**0.026**	**0.18**	**0.39**	**0.04**	**0.26**
Ammoniacal Nitrogen as NH4	**0.61**	**2.1**	**0.69**	**0.7**	**0.95**	**0.57**	**0.03**	**0.22**	**0.5**	**0.05**	**0.34**
Total Suspended Solids	<10	14	27	41	21	<10	1900	130	30	2900	120
Electrical Conductivity	18000	21000	2400	26000	21000	2900	11000	14000	2800	13000	16000
Total Alkalinity as CaCO3		120	120	160	130	110	170	160	110	150	120
Phenols (total)	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	0.8	<0.5	0.7	0.8	<0.5
Cyanide (total)	**<10**	**<10**	**<10**	**<10**	**12**	**<10**	**<10**	**<10**	**<10**	**<10**	**21**
Cyanide (free)	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**	**<10**
Acenaphthene	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Anthracene	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)anthracene	0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo(a)pyrene	<0.01	0.01	<0.01	<0.02	0.02	<0.01	<0.01	0.02	<0.01	<0.01	0.02
Benzo(b)fluoranthene	<0.01	<0.01	<0.01	<0.02	0.01	<0.01	<0.01	0.01	<0.01	<0.01	0.01
Benzo(ghi)perylene	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01
Benzo(k)fluoranthene	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01
Chrysene	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenzo(ah)anthracene	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	0.02	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno(1,2,3cd)pyrene	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01
Naphthalene	<0.01	0.03	<0.01	<0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	0.02	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Polyaromatic Hydrocarbons (Total)	0.05	0.04	<0.01	0.02	0.03	0.01	<0.01	0.06	<0.01	<0.01	0.03
Sum of 4No. PAHs	<0.04	<0.04	<0.04	<0.08	<0.04	<0.04	<0.04	0.04	<0.04	<0.04	<0.04
Sum of benzo(b) and benzo(k)fluoranthene	<0.02	<0.02	<0.02	**<0.04**	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	<0.02
Sum of indeno(123cd)pyrene and benzo(ghi)perylene	**<0.02**	**<0.02**	**<0.02**	**<0.04**	**<0.02**	**<0.02**	**<0.02**	**0.02**	**<0.02**	**<0.02**	**<0.02**
TPH (C8-C10)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (C10-C12)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (C12-C16)	<10	<10	<10	<10	<10	<10	21	<10	<10	13	<10
TPH (C16-C21)	<10	<10	<10	19	<10	<10	68	<10	<10	53	<10
TPH (C21-C35)	<10	<10	<10	16	<10	<10	70	<10	<10	54	<10
TPH (C35-C40)	<10	<10	<10	<10	<10	<10	10	<10	<10	10	<10
Total TPH (C8-C40)	<10	<10	<10	40	<10	<10	170	<10	<10	120	<10

Substance		Screening Criteria		Number of Analyses	Reported Minimum Value	Reported Maximum Value	Statistical Mean	Standard Deviation	Number of Exceedances
		-	-						-
pH		-	-	26	7.5	8	7.74	0.11	-
		-	-						-
Arsenic	ug/l	25	WFD 2010 Part 4 (Coastal Waters)	26	32	270	110	86.7	26
Boron	ug/l	7000	UK Estuary & Coastal EQS 2004	26	780	2200	1577	392	0
Cadmium	ug/l	0.2	WFD 2010 Part 5 (Coastal Waters)	26	0.04	0.22	0.12	0.035	1
Chromium (total)	ug/l	-	-	26	2	18	10.3	5.6	-
Chromium (III)	ug/l	4.7	WFD 2010 Part 4 (Freshwater)	26	<3	18	10.1	4.99	20
Chromium (VI)		0.6	WFD 2010 Part 4 (Coastal Waters)	26	<3	5	3.12	0.43	26
Copper	ug/l	5	WFD 2010 Part 4 (Coastal Waters)	26	27	12000	1325	3337	26
Lead	ug/l	7.2	WFD 2010 Part 5 (Coastal Waters)	26	<0.3	4.5	0.72	1	0
Mercury	ug/l	0.05	WFD 2010 Part 5 (Coastal Waters)	26	<0.05	<0.05	0.05	1.42E-17	0
Nickel	ug/l	20	WFD 2010 Part 5 (Coastal Waters)	26	6	19	10.7	3.98	0
Selenium	ug/l	-	-	26	<0.5	170	68.8	60.4	-
Zinc	ug/l	40	WFD 2010 Part 4 (Coastal Waters)	26	6	49	24.8	14.2	4
		-	-						-
Calcium	ug/l	-	-	26	1.20E+05	2.30E+05	1.67E+05	26068	-
Magnesium	ug/l	-	-	26	2.10E+05	6.50E+05	4.62E+05	1.26E+05	-
Potassium	ug/l	-	-	26	78000	2.80E+05	1.86E+05	56220	-
Sodium	ug/l	-	-	26	1.60E+06	4.80E+06	3.31E+06	9.92E+05	-
Iron (dissolved)	ug/l	1000	WFD 2010 Part 4 (Coastal Waters)	12	71	480	163	117	0
Iron (total)	ug/l	-	-	12	330	2.00E+05	36908	57673	-
Manganese (dissolved)	ug/l	-	-	12	<10	54	25.8	19.3	-
Manganese (total)	ug/l	-	-	12	62	15000	2206	4224	-
		-	-						-
Nitrate	mg/l	-	-	26	1	19	5.52	4.6	-
Nitrite	mg/l	-	-	26	<0.1	0.2	0.12	0.04	-
TON	mg/l	-	-	26	0.4	4.3	1.28	1.01	-
Sulphate	mg/l	400	UK Freshwater EQS 2004	26	540	1500	1056	286	26
Sulphide	mg/l	-	-	26	<0.05	<0.05	0.05	1.42E-17	-
Sulphur	mg/l	-	-	26	170	490	371	84.2	-
Chloride	mg/l	250	UK Freshwater EQS 2004	26	3500	12000	7777	2446	26
Ammoniacal Nitrogen as N	mg/l	0.021	WFD 2010 Part 4 (Coastal Waters)	26	0.026	1.6	0.51	0.29	26
Ammoniacal Nitrogen as NH4	mg/l	0.027	WFD 2010 Part 4 (Coastal Waters)	26	0.03	2.1	0.66	0.38	26
Total Suspended Solids	mg/l	-	-	26	<10	2900	232	661	-
Electrical Conductivity	uS/cm	-	-	26	2400	27000	16346	8756	-
Total Alkalinity as CaCO3	mg/l	-	-	20	110	170	135	19.6	-
		-	-						-
Phenols (total)	ug/l	7.7	WFD 2010 Part 4 (Coastal Waters)	26	<0.5	1.1	0.57	0.15	0
Cyanide (total)	ug/l	1	WFD 2010 Part 4 (Coastal Waters)	26	<10	26	11.1	3.73	26
Cyanide (free)	ug/l	1	WFD 2010 Part 4 (Coastal Waters)	26	<10	<10	10	0	26
		-	-						-
Acenaphthene	ug/l	-	-	26	<0.01	<0.02	0.011	0.0027	-
Acenaphthylene	ug/l	-	-	26	<0.01	0.06	0.013	0.01	-
Anthracene	ug/l	0.1	WFD 2010 Part 5 (Coastal Waters)	26	<0.01	<0.02	0.011	0.0027	0
Benzo(a)anthracene	ug/l	-	-	26	<0.01	0.02	0.011	0.0033	-
Benzo(a)pyrene	ug/l	0.05	WFD 2010 Part 5 (Coastal Waters)	26	<0.01	0.07	0.014	0.012	1
Benzo(b)fluoranthene	ug/l	-	-	26	<0.01	0.03	0.012	0.0046	-
Benzo(ghi)perylene	ug/l	-	-	26	<0.01	<0.1	0.022	0.029	-
Benzo(k)fluoranthene	ug/l	-	-	26	<0.01	0.02	0.011	0.0033	-
Chrysene	ug/l	-	-	26	<0.01	0.02	0.011	0.0033	-
Dibenzo(ah)anthracene	ug/l	-	-	26	<0.01	<0.1	0.021	0.029	-
Fluoranthene	ug/l	0.1	WFD 2010 Part 5 (Coastal Waters)	26	<0.01	0.02	0.012	0.004	0
Fluorene	ug/l	-	-	26	<0.01	<0.02	0.011	0.0027	-
Indeno(1,2,3cd)pyrene	ug/l	-	-	26	<0.01	<0.1	0.022	0.029	-
Naphthalene	ug/l	1.2	WFD 2010 Part 5 (Coastal Waters)	26	<0.01	0.3	0.046	0.083	0
Phenanthrene	ug/l	-	-	26	<0.01	0.03	0.012	0.0049	-
Pyrene	ug/l	-	-	26	<0.01	0.02	0.012	0.004	-
Polyaromatic Hydrocarbons (Total)	ug/l	-	-	26	<0.01	0.36	0.072	0.095	-
Sum of 4No. PAHs	ug/l	-	-	26	<0.04	<0.22	0.066	0.059	-
Sum of benzo(b) and benzo(k)fluoranthene	ug/l	0.03	WFD 2010 Part 5 (Coastal Waters)	26	<0.02	0.05	0.023	0.0078	3
Sum of indeno(123cd)pyrene and benzo(ghi)perylene	ug/l	0.002	WFD 2010 Part 5 (Coastal Waters)	26	<0.02	<0.2	0.043	0.058	26
	ug/l	-	-						-
TPH (C8-C10)	ug/l	-	-	26	<10	<10	10	0	-
TPH (C10-C12)	ug/l	-	-	26	<10	<10	10	0	-
TPH (C12-C16)	ug/l	-	-	26	<10	23	11	3.29	-
TPH (C16-C21)	ug/l	-	-	26	<10	68	16.9	15.4	-
TPH (C21-C35)	ug/l	-	-	26	<10	76	17.7	18.7	-
TPH (C35-C40)	ug/l	-	-	26	<10	20	10.4	1.96	-
Total TPH (C8-C40)	ug/l	-	-	26	<10	170	30.8	45.6	-
		-	-						-

Appendix I: Controlled waters screening (discussion)

Appendix I: Controlled waters screening

I.1 Groundwater generic screen (to DWS)

A summary of the generic screen of groundwater results in comparison to the DWS is provided in Table I.1. Plots given in Figures 4 to 9 also illustrate the range of recorded concentrations within the superficial deposits and chalk aquifer, in comparison to the EQS, DWS and average recorded concentrations in the River Humber and River Hull.

Table I.1 – Generic Screening of Groundwater Results (to DWS)

Contaminant	Units	Screening Value	Screening Criteria	No. of Analyses	Range of Concentrations		No. Samples Exceeding*	Location & Phase of Maximum
					Min	Max		
Chalk								
Arsenic	µg/l	10	UK DWS	30	17	320	30	LBH_01 - PUMP TEST (09/12/13)
Boron	µg/l	1,000	UK DWS	30	63	2,100	21	BH02 - ROUND 1
Chromium (total)	µg/l	50	UK DWS	30	1	78	3	BH22 - ROUND 1
Copper	µg/l	2,000	UK DWS	30	12	4,500	2	BH29 - ROUND 2
Lead	µg/l	10	UK DWS	30	<0.3	17	2	BH24 - PRELIM RD 2
Nickel	µg/l	20	UK DWS	30	5	57	20	BH24 - ROUND 1
Selenium	µg/l	10	UK DWS	30	<0.5	210	11	LBH_01 - PUMP TEST (09/12/13)
Iron (dissolved)	µg/l	200	UK DWS	31	<10	3,300	11	BH22 - ROUND 1
Iron (total)	µg/l	200	UK DWS	26	2,700	54,000	26	BH33 - ROUND 2
Manganese (dissolved)	µg/l	50	UK DWS	26	<10	2,500	24	BH33 - ROUND 3
Manganese (total)	µg/l	50	UK DWS	26	110	3,300	26	BH33 - ROUND 3
Nitrite	mg/l	0.5	UK DWS	31	<0.1	5.2	3	BH24 - PRELIM RD 2
Sulphate	mg/l	250	UK DWS	30	1.8	1,500	23	BH02 - ROUND 1
Chloride	mg/l	250	UK DWS	31	79	11,000	30	BH24 - ROUND 1
Ammoniacal Nitrogen as NH_4	mg/l	0.5	UK DWS	30	0.39	37	29	BH33 - ROUND 3
Electrical Conductivity	µS/cm	2,500	UK DWS	31	3,000	28,000	31	BH02 - ROUND 3
Cyanide (total)	µg/l	50	UK DWS	30	<10	150	2	BH22 - ROUND 1
Benzo(a)pyrene	µg/l	0.01	UK DWS	30	<0.01	<0.1	6 (8)	BH02 - ROUND 2
Sum of 4No. PAHs**	µg/l	0.1	UK DWS	30	<0.04	<0.4	1 (3)	BH02 - ROUND 2
TPH (C_{21}-C_{35})	µg/l	90	WHO DWS	25	<10	160	1	BH24 - PRELIM RD 1
TPH Aliphatics >C_{12}-C_{16}	µg/l	300	WHO DWS	6	<10	1,300	1	BH29 - ROUND 2
TPH Aromatics >C_{12}-C_{16}	µg/l	100	WHO DWS	6	<10	220	1	BH29 - ROUND 2
TPH Aromatics >C_{16}-C_{21}	µg/l	90	WHO DWS	6	<10	600	2	BH29 - ROUND 2
TPH Aromatics >C_{21}-C_{35}	µg/l	90	WHO DWS	6	<10	3,900	2	BH29 - ROUND 2
1,2-Dibromoethane	µg/l	0.4	WHO DWS	3	<1	<1	0 (3)	Multiple
Dichloromethane	µg/l	20	WHO DWS 2011	3	<50	<50	0 (3)	Multiple

Contaminant	Units	Screening Value	Screening Criteria	No. of Analyses	Range of Concentrations		No. Samples Exceeding*	Location & Phase of Maximum
					Min	Max		
Hexachlorobutadiene	µg/l	0.6	WHO DWS 2011	3	<1	<1	0 (3)	Multiple
Superficial Deposits and Made Ground								
Arsenic	µg/l	10	UK DWS	90	1.1	200	84	BH03 - ROUND 2 / BH25 - PRELIM RD 1
Boron	µg/l	1,000	UK DWS	90	48	1,900	43	Multiple
Chromium (total)	µg/l	50	UK DWS	90	2	91	15	BH19A - ROUND 1
Copper	µg/l	2,000	UK DWS	90	<0.5	6,500	6	BH12 - ROUND 1
Mercury	µg/l	1	UK DWS	90	<0.05	7.2	2	WS10A - ROUND 2
Nickel	µg/l	20	UK DWS	90	4	56	27	BH34 - ROUND 2
Selenium	µg/l	10	UK DWS	90	<0.5	120	43	BH34 - ROUND 2
Iron (dissolved)	µg/l	200	UK DWS	87	<10	26,000	46	BH30 - ROUND 1
Iron (total)	µg/l	200	UK DWS	87	1,500	1,200,000	87	WS10A - ROUND 2
Manganese (dissolved)	µg/l	50	UK DWS	87	16	8,500	84	BH26 - ROUND 3
Manganese (total)	mg/l	50	UK DWS	87	55	46,000	87	WS10A - ROUND 2
Nitrite	mg/l	0.5	UK DWS	90	<0.1	5.1	5	WS01 - ROUND 2
Sulphate	mg/l	250	UK DWS	90	<0.5	3,300	27	BH34 - ROUND 1
Chloride	mg/l	250	UK DWS	90	33	9,800	72	BH12 - ROUND 1
Ammoniacal Nitrogen as NH_4	µS/cm	0.5	UK DWS	90	0.04	64	88	BH26 - ROUND 1
Electrical Conductivity	µg/l	2,500	UK DWS	90	850	27,000	80	BH12 – ROUND 1
Cyanide (total)	µg/l	50	UK DWS	90	<10	54	1	BH35 - Deep - ROUND 1
Benzo(a)pyrene	µg/l	0.01	UK DWS	90	<0.01	0.33	13 (19)	BH41A - ROUND 2
Sum of 4No. PAHs**	µg/l	0.1	UK DWS	90	<0.04	0.94	8 (17)	BH41A - ROUND 2
TPH (C_{12}-C_{16})	µg/l	100	WHO DWS	70	<10	400	3	BH35 - Deep - ROUND 1
TPH (C_{16}-C_{21})	µg/l	90	WHO DWS	70	<10	420	6	SBP02 - ROUND 3
TPH (C_{21}-C_{35})	µg/l	90	WHO DWS	70	<10	5,800	8	SBP02 - ROUND 3
TPH Aromatics >C_{12}-C_{16}	µg/l	100	WHO DWS	21	<10	120	1	BH15 - ROUND 2
TPH Aromatics >C_{16}-C_{21}	µg/l	90	WHO DWS	21	<10	450	3	BH15 - ROUND 2
TPH Aromatics >C_{21}-C_{35}	µg/l	90	WHO DWS	21	<10	3,300	3	BH15 - ROUND 2
1,2-Dibromoethane	µg/l	0.4	WHO DWS	15	<1	<1	0 (15)	Multiple
Dichloromethane	µg/l	20	WHO DWS	15	<50	<50	0 (15)	Multiple
Vinyl chloride	µg/l	0.5	UK DWS	15	<0.5	<1	1	SBP02 - ROUND 3
Hexachlorobutadiene	µg/l	0.6	WHO DWS	15	<1	<1	0 (15)	Multiple

* Number of measurable exceedances. The number shown in brackets indicates the total number of exceedances including those recorded at laboratory detection limit that exceed the current published Tier 1 Screening Criteria. These have not been indicated on the contaminant distribution drawing.
** Sum of 4 No. PAHs equals the sum of benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(g,h,i)perylene and indeno(1,2,3-cd)pyrene.

The detection limit for benzo(a)pyrene was raised above the DWS in some samples due to the amount of sample aliquot available for analysis. The detection limit was also greater than the

screening value for other PAHs, VOCs and SVOCs as detailed in Table I.1. These have been flagged as potential exceedances but are not considered further in the risk assessment.

The key findings are summarised below:

Metals

- Arsenic concentrations exceed the DWS screening criteria in every sample analysed within the chalk and the majority of samples within the superficial deposits. Concentrations in the chalk and superficial deposits are typically in the same order of magnitude, with a maximum concentration of 200 µg/L reported in groundwater from the superficial deposits.
- Elevated concentrations of chromium, nickel, selenium and boron were also reported in a number of groundwater samples from across the Site, with maximum concentrations typically occurring in the chalk (with the exception of chromium). Concentrations in the chalk and superficial deposits vary significantly between and within monitoring rounds.
- Elevated concentrations of copper in excess of the DWS were reported in a number of samples from the chalk and superficial deposits during Round 1 of monitoring. With the exception of elevated copper concentrations in BH29 (4,500 µg/L) and BH41A (4,700 µg/L) during Round 2, no other exceedances were reported from the same locations during subsequent monitoring rounds. There is a variation of up to three orders of magnitude in copper concentrations reported, including between multiple monitoring rounds from the same location.
- Lead concentrations were reported marginally above the DWS in two isolated locations in the chalk and mercury in two samples from superficial deposits.
- Iron and manganese concentrations (total and dissolved) exceed the DWS in the majority of samples analysed, with values reported up to three orders of magnitude higher than the screening values. Concentrations within the chalk and the superficial deposits are typically within the same order of magnitude.

Inorganics & electrical conductivity

- Concentrations of ammoniacal nitrogen exceed the DWS in 29 of the 30 samples analysed within the chalk and the majority of samples within the superficial deposits. Concentrations reported in the superficial deposits are typically higher than those in the chalk.
- Isolated concentrations of nitrite exceed the DWS, with the majority of exceedances within the superficial deposits. The highest concentration was reported within the chalk in BH24 (Preliminary Round 2).
- Chloride concentrations exceed the DWS in the majority of samples in the chalk and superficial deposits. The majority of concentrations are within the same order of magnitude.
- Sulphate concentrations were reported marginally above the DWS in both the superficial deposits and the chalk.
- Electrical conductivity measurements exceed the DWS in the majority of samples from the chalk and superficial deposits. Values reported are within the same order of magnitude, and exceedances occur consistently over multiple monitoring rounds.

- Three exceedances of cyanide occur above the DWS. Given their isolated nature, they are not considered likely to present a significant risk to controlled waters.

Organics

- Benzo(a)pyrene and the sum of 4No. PAHs concentrations have been reported above the DWS and laboratory detection limit. Typically, these are marginal and isolated. The exception is BH41A and SBP02, where elevated concentrations of benzo(a)pyrene (0.33 µg/L and 0.16 µg/L) and the sum of 4No. PAHs (0.94 µg/L and 0.77 µg/L) were reported in the superficial deposits.
- Either banded or speciated TPH analyses were performed on all samples. Results from BH29, BH24, BH15 and BH05 during monitoring Round 2 were reported significantly higher than in previous and subsequent rounds. These are therefore considered anomalous and have been excluded from further risk assessment.
- A small number of other samples reported concentrations of TPH in excess of the DWS. Concentrations are typically more significantly elevated within the superficial deposits than in the chalk although there is some variation between monitoring rounds. BH41A and SBP02 also report exceedances of TPH concentrations, with the maximum concentration reported of 5,800 µg/L (for TPH C_{21}-C_{35}) in SBP02 (Round 2).

I.2 Groundwater generic screen (to EQS)

A summary of the generic screen of groundwater results in comparison to the EQS is provided in Table I.2. The average concentrations recorded in the River Humber and River Hull (sampling points SW1, SW5 and SW6) are plotted on Figures 4 to 9.

Table I.2 – Generic Screening of Groundwater Results (to EQS)

Contaminant	Units	Screening Value	Screening Criteria	No. of Analyses	Range of Concentrations		No. Samples Exceeding*	Location & Phase of Maximum
					Min	Max		
Chalk								
Arsenic	µg/l	25	WFD 2015 Other Surface Waters	30	17	320	26	LDBH_01 - PUMP TEST (9/12/13)
Cadmium	µg/l	0.2	WFD 2015 Other Surface Waters	30	<0.02	0.89	1	LDBH_01 - PUMP TEST (18/12/13)
Chromium (VI)	µg/l	0.6	WFD 2015 Other Surface Waters	30	<3	17	3 (30)	BH24 - PRELIM RD 2
Copper	µg/l	3.76	WFD 2015 Other Surface Waters	30	12	4,500	30	Multiple
Lead	µg/l	1.3	WFD 2015 Other Surface Waters	30	<0.3	17	3	BH24 - PRELIM RD 2
Mercury	µg/l	0.07	WFD 2015 Other Surface Waters	30	<0.05	0.28	7	BH24 - ROUND 3
Nickel	µg/l	8.6	WFD 2015 Other Surface Waters	30	5	57	26	BH24 - ROUND 1

Contaminant	Units	Screening Value	Screening Criteria	No. of Analyses	Range of Concentrations		No. Samples Exceeding*	Location & Phase of Maximum
					Min	Max		
Zinc	µg/l	7.9	WFD 2015 Other Surface Waters	30	<2	78	15	LDBH_01 - PUMP TEST (9/12/13)
Iron (dissolved)	µg/l	1,000	WFD 2015 Other Surface Waters	26	<10	3,300	2	BH22 - ROUND 1
Iron (total)	µg/l	1,000	WFD 2015 Other Surface Waters	26	2,700	54,000	26	BH33 - ROUND 2
Cyanide (free)	µg/l	1	WFD 2015 Other Surface Waters	30	<10	31	4 (30)	LDBH_01 - PUMP TEST (27/11/13)
Benzo(a)pyrene	µg/l	0.00017	WFD 2015 Other Surface Waters	30	<0.01	0.03	6 (30)	Multiple
Fluoranthene	µg/l	0.0063	WFD 2015 Other Surface Waters	30	<0.01	0.17	6 (30)	BH29 - PRELIM RD 2
Naphthalene	µg/l	2	WFD 2015 Other Surface Waters	30	<0.01	3.3	1	BH18A - ROUND 1
Dichloromethane	µg/l	20	WFD 2010 Part 5 (Coastal Waters)	3	<50	<50	0 (3)	Multiple
2,4-Dichlorophenol	µg/l	0.42	WFD 2015 Other Surface Waters	3	<1	<1	0 (3)	Multiple
Butyl benzyl phthalate	µg/l	0.75	WFD 2015 Other Surface Waters	3	<1	<1	0 (3)	Multiple
Hexachlorobenzene	µg/l	0.05	WFD 2015 Other Surface Waters	3	<1	<1	0 (3)	Multiple
Hexachlorobutadiene	µg/l	0.6	WFD 2015 Other Surface Waters	3	<1	<1	0 (3)	Multiple
Pentachlorophenol	µg/l	0.4	WFD 2015 Other Surface Waters	3	<1	<1	0 (3)	Multiple
Superficial Deposits and Made Ground								
Arsenic	µg/l	25	WFD 2015 Other Surface Waters	90	1.1	200	68	BH03 - ROUND 2 / BH25 - PRELIM RD 1
Cadmium	µg/l	0.2	WFD 2015 Other Surface Waters	90	<0.02	0.41	2	BH41A - ROUND 1
Chromium (VI)	µg/l	0.6	WFD 2015 Other Surface Waters	90	<3	4	90	Multiple
Copper	µg/l	3.76	WFD 2015 Other Surface Waters	90	<0.5	6,500	84	BH12 - ROUND 1
Mercury	µg/l	0.07	WFD 2015 Other Surface Waters	90	<0.05	7.2	6	WS10A - ROUND 2

Contaminant	Units	Screening Value	Screening Criteria	No. of Analyses	Range of Concentrations		No. Samples Exceeding*	Location & Phase of Maximum
					Min	Max		
Nickel	µg/l	8.6	WFD 2015 Other Surface Waters	90	4	56	65	BH34 - ROUND 2
Iron (dissolved)	µg/l	1,000	WFD 2015 Other Surface Waters	87	<10	26,000	15	BH30 - ROUND 1
Iron (total)	µg/l	1,000	WFD 2015 Other Surface Waters	87	1,500	$1.2x10^6$	87	WS10A - ROUND 2
Phenols (total)	µg/l	7.7	WFD 2015 Other Surface Waters	90	<0.5	9.4	1	BH15 - ROUND 2
Cyanide (free)	µg/l	1	WFD 2015 Other Surface Waters	90	<10	<10	0 (90)	Multiple
Anthracene	µg/l	0.1	WFD 2015 Other Surface Waters	90	<0.01	0.16	3	BH41A - ROUND 2
Benzo(a)pyrene	µg/l	0.00017	WFD 2015 Other Surface Waters	90	<0.01	0.33	16 (90)	BH41A - ROUND 2
Fluoranthene	µg/l	0.0063	WFD 2015 Other Surface Waters	90	<0.01	0.71	36 (90)	BH41A - ROUND 2
Naphthalene	µg/l	2	WFD 2015 Other Surface Waters	90	<0.01	4.7	2	BH01 - ROUND 1
Dichloromethane	µg/l	20	WFD 2015 Other Surface Waters	15	<50	<50	0 (15)	Multiple
2,4-Dichlorophenol	µg/l	0.42	WFD 2015 Other Surface Waters	15	<1	<1	0 (15)	Multiple
Butyl benzyl phthalate	µg/l	0.75	WFD 2015 Other Surface Waters	15	<1	<1	0 (15)	Multiple
Hexachlorobenzene	µg/l	0.05	WFD 2015 Other Surface Waters	15	<1	<1	0 (15)	Multiple
Hexachlorobutadiene	µg/l	0.6	WFD 2015 Other Surface Waters	15	<1	<5	0 (15)	Multiple
Pentachlorophenol	µg/l	0.4	WFD 2015 Other Surface Waters	15	<1	<5	0 (15)	Multiple

* Number of measurable exceedances. The number shown in brackets indicates the total number of exceedances including those recorded at laboratory detection limit that exceed the current published Generic Screening Criteria. These have not been indicated on the contaminant distribution drawing.

The limits of detection for benzo(a)pyrene, fluoranthene and several volatile chemicals were raised by the laboratory, above the EQS, for some samples due to the amount of sample aliquot available for analysis. The detection limit was also greater than the screening value for cyanide and

chromium VI, along with a number of PAHs, VOCs and SVOCs as detailed in Table I.2. These have been flagged as potential exceedances but are not considered further in the risk assessment.

The key findings are summarised below:

Metals

- Arsenic and copper concentrations exceed the EQS screening criteria in the majority of samples.
- Cadmium, chromium (VI), lead, iron, zinc and mercury concentrations were reported marginally above the EQS in a few isolated samples from the chalk and superficial deposits.
- Marginally elevated concentrations of nickel in groundwater above the EQS were recorded in numerous locations within the chalk and the superficial deposits. A maximum concentration of 57 µg/L reported from groundwater in the chalk in BH24 (Round 1).

Inorganics

- Four exceedances of cyanide occurred above the EQS. Given their isolated nature, they are not considered likely to present a significant risk to controlled waters.

Organics

- Only one, isolated sample from the superficial deposits exceeded the EQS for phenol on one occasion (9.4 µg/L reported in BH15 (Round 2)). Concentrations of phenol at this location during the previous round (Round 1) were reported below laboratory detection limit (<0.05 µg/L). This is not considered further in the risk assessment.
- Isolated elevated concentrations of naphthalene and anthracene also were reported above the EQS. These are not consistently elevated over multiple rounds.
- A number of samples of benzo(a)pyrene, and fluoranthene exceed the EQS due to raised laboratory detection limits. There are also a number of measurable exceedances. Typically these are marginal, although concentrations three orders of magnitude higher than the EQS were recorded. A maximum concentration was reported from groundwater in superficial deposits in BH41A (Round 2).

I.3 Surface water generic Screen (to EQS)

A summary of the generic screen of surface water results in comparison to the EQS is provided in Table I.3.

Table I.3 – Tier 1 Screening of Surface Water Results (to EQS)

Contaminant	Units	Screening Value	Screening Criteria	No. of Analyses	Range of Concentrations		Number of Samples Exceeding*	Location & Phase of Maximum
					Max	Min		
Arsenic	µg/l	25	WFD 2015 Other Surface Waters	26	32	270	26	SW2 - PRELIM RD 2
Cadmium	µg/l	0.2	WFD 2015 Other Surface Waters	26	0.04	0.22	1	SW1 - PRELIM RD 1
Chromium (VI)	µg/l	0.6	WFD 2015 Other Surface Waters	26	<3	5	2 (26)	SW2 - PRELIM RD 2
Copper	µg/l	3.76	WFD 2015 Other Surface Waters	26	27	12,000	26	SW2 - ROUND 2

Contaminant	Units	Screening Value	Screening Criteria	No. of Analyses	Range of Concentrations		Number of Samples Exceeding*	Location & Phase of Maximum
					Max	Min		
Lead	µg/l	1.3	WFD 2015 Other Surface Waters	26	<0.3	4.5	3	SW2 - PRELIM RD 1
Nickel	µg/l	8.6	WFD 2015 Other Surface Waters	26	6	19	17	SW1 - ROUND 2
Zinc	µg/l	7.9	WFD 2015 Other Surface Waters	26	6	49	23	SW3 - PUMP TEST
Cyanide (free)	µg/l	1	WFD 2015 Other Surface Waters	26	<10	<10	0 (26)	Multiple
Benzo(a)pyrene	µg/l	0.00017	WFD 2015 Other Surface Waters	26	<0.01	0.07	5 (26)	SW1 - ROUND 3
Fluoranthene	µg/l	0.0063	WFD 2015 Other Surface Waters	26	<0.01	0.02	5 (26)	Multiple

* Number of measurable exceedances. The number shown in brackets indicates the total number of exceedances including those recorded at laboratory detection limit that exceed the current published Generic Screening Criteria. These have not been indicated on the contaminant distribution drawing.

The laboratory detection limit was greater than the screening value for cyanide, chromium VI, benzo(a)pyrene and fluoranthene as detailed in Table I.3. These have been flagged as potential exceedances but are not considered further in the risk assessment.

The key findings are summarised below:

Metals

- Elevated concentrations of metals above the EQS were reported in surface water receptors in the vicinity of the scheme.
- Elevated concentrations of arsenic, up to an order of magnitude above the EQS were reported in the majority of samples. Maximum concentrations were reported in water samples taken from Railway Docks (SW2 and SW3).
- Concentrations of cadmium were reported marginally above the EQS in one, isolated sample from the River Humber (SW1).
- Concentrations of chromium (VI) were measured above the EQS in two locations from the Docks (SW2 and SW3) during Preliminary Round 1. At other locations, during multiple monitoring rounds, concentrations were reported below laboratory detection.
- Concentrations of copper were elevated significantly above the EQS in each sample of water analysed. Typically, concentrations were up to an order of magnitude above the EQS, however, during Round 2, concentrations in three samples from the River Humber (SW1) and Railway Docks (SW2 and SW3) were reported between 8,900 µg/L and 12,000 µg/L. Given the variation of these concentrations between monitoring rounds (up to three orders of magnitude) and across the scheme, these three results are considered likely to be anomalous.

Organics

- Concentrations of PAH were typically reported below the laboratory detection limit, with the exception of a sample from the River Humber (SW1) during Round 3, W3 during pump tests and Round 3 and SW6 (Round 3). All samples were negligibly above the laboratory detection limit.

I.4 Figures – Distribution of determinands in groundwater

The plots given below (**Figure 4** to **Figure 9**) illustrate the range of concentrations recorded in groundwater within the chalk and superficial deposits during Round 1 and 2 (as all available locations were sampled during these rounds).

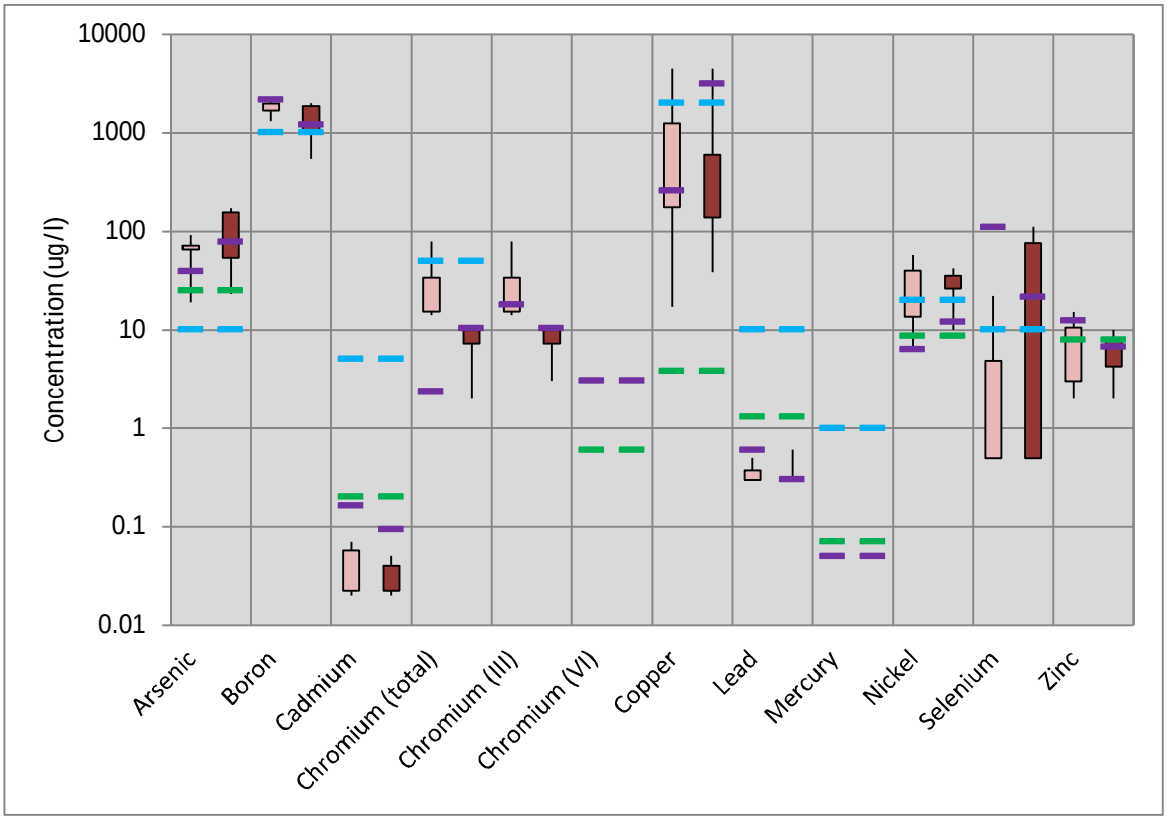
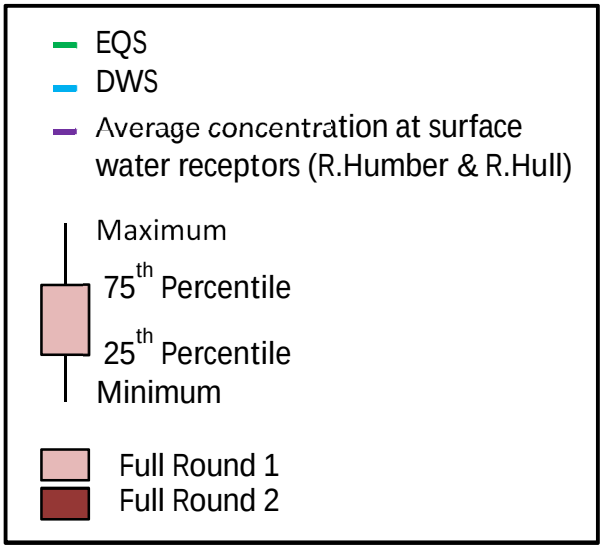


Figure 4: Range of Recorded Concentrations in Groundwater from the Chalk (Basic Metals)



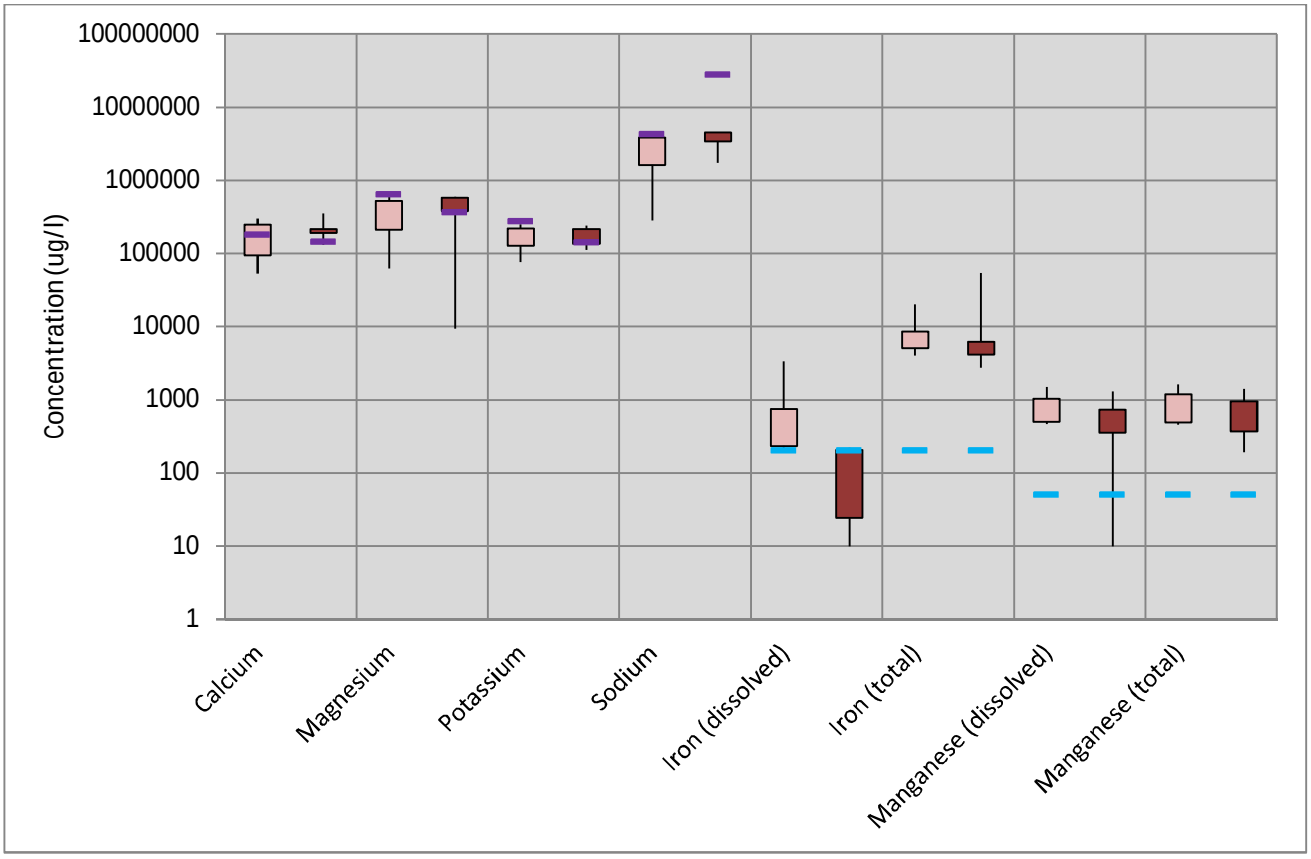


Figure 5: Range of Recorded Concentrations in Groundwater from the Chalk (Additional Metals)

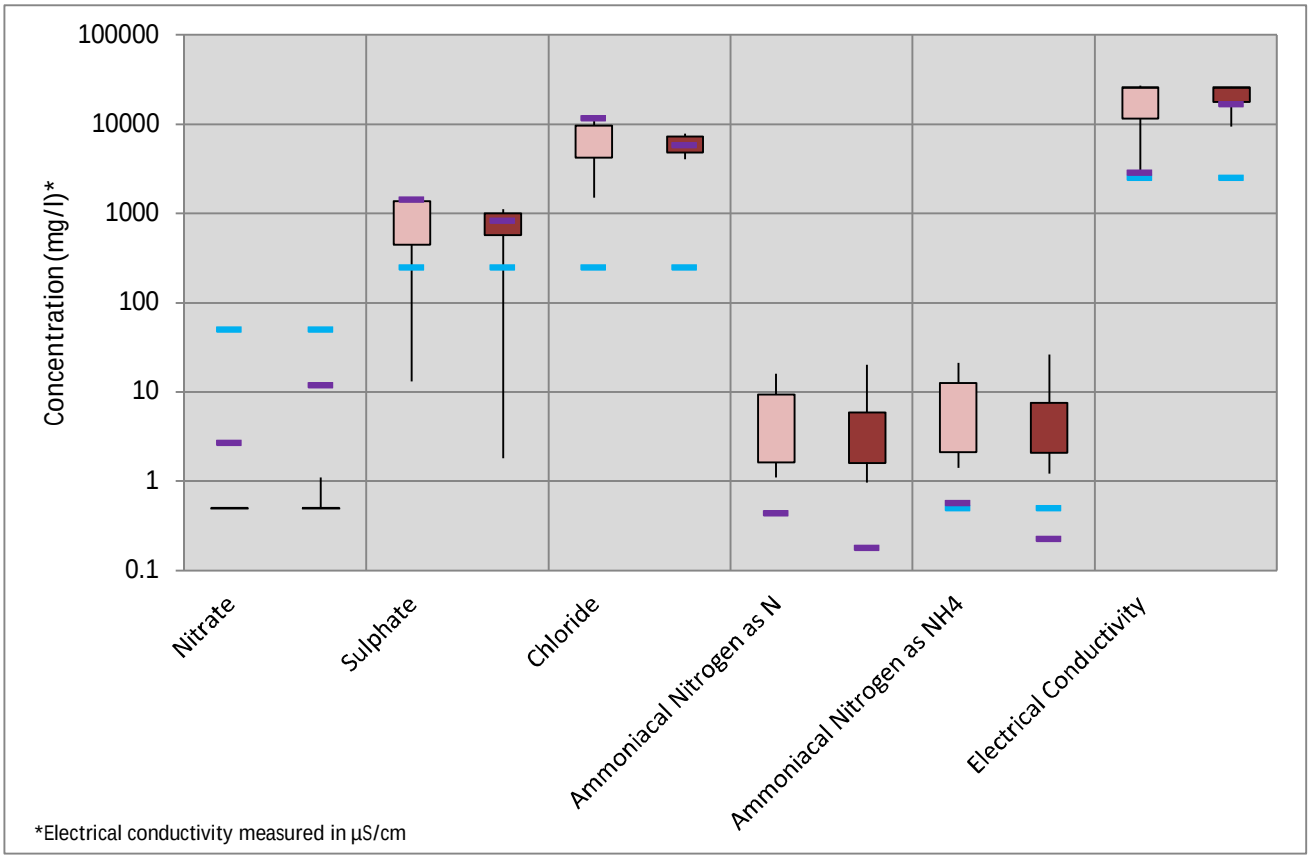


Figure 6: Range of Recorded Concentrations in Groundwater from the Chalk (Inorganics)

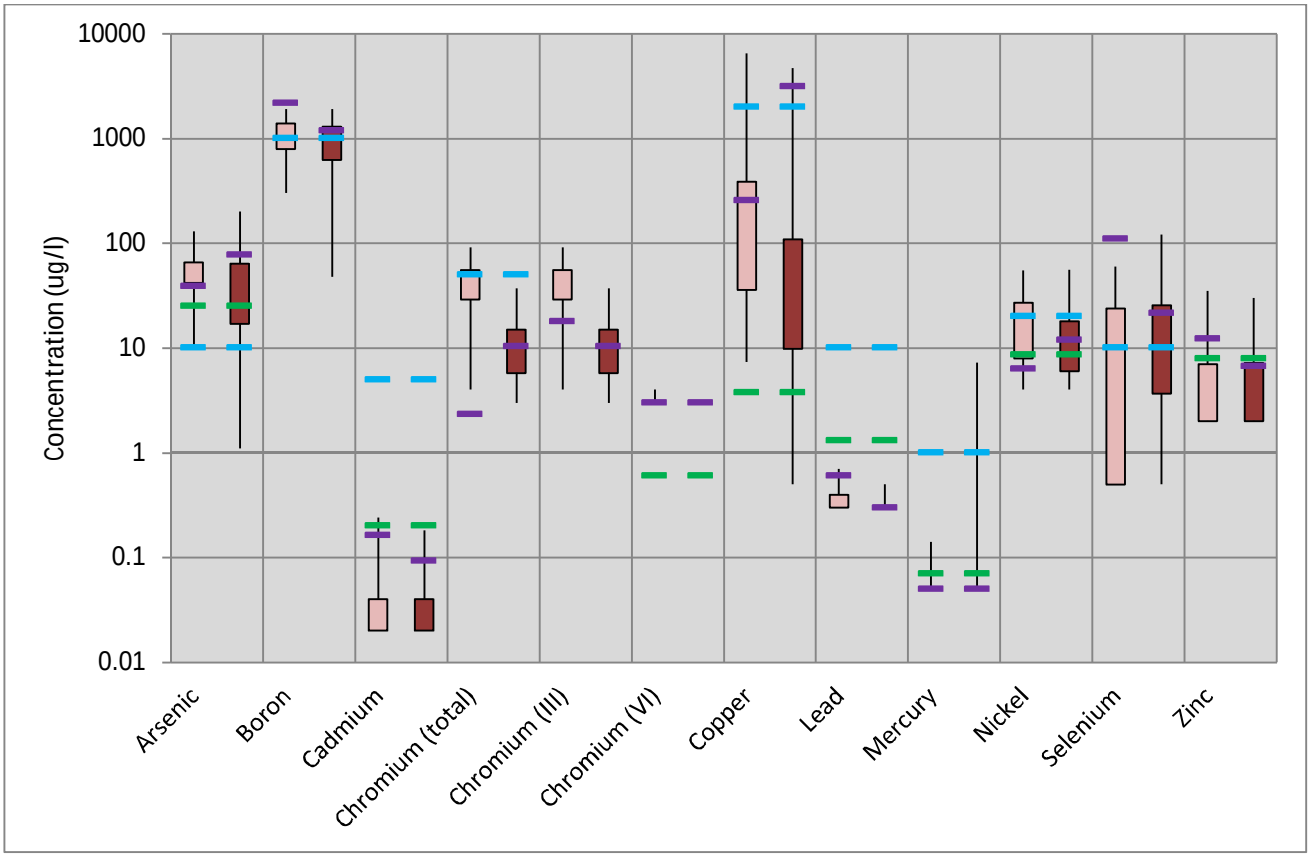


Figure 7: Range of Recorded Concentrations in Groundwater from the Superficial Deposits (Basic Metals)

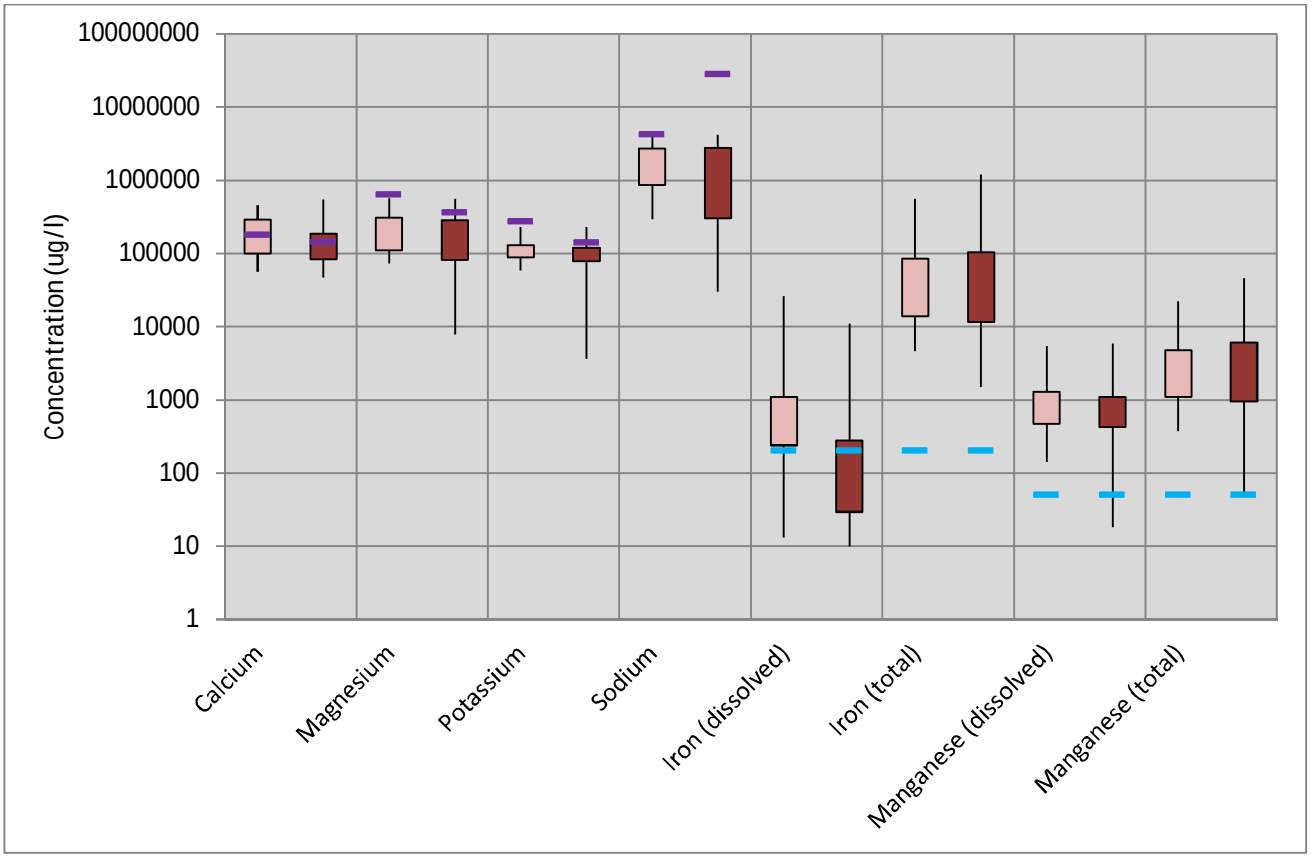


Figure 8: Range of Recorded Concentrations in Groundwater from the Superficial Deposits (Additional Metals)

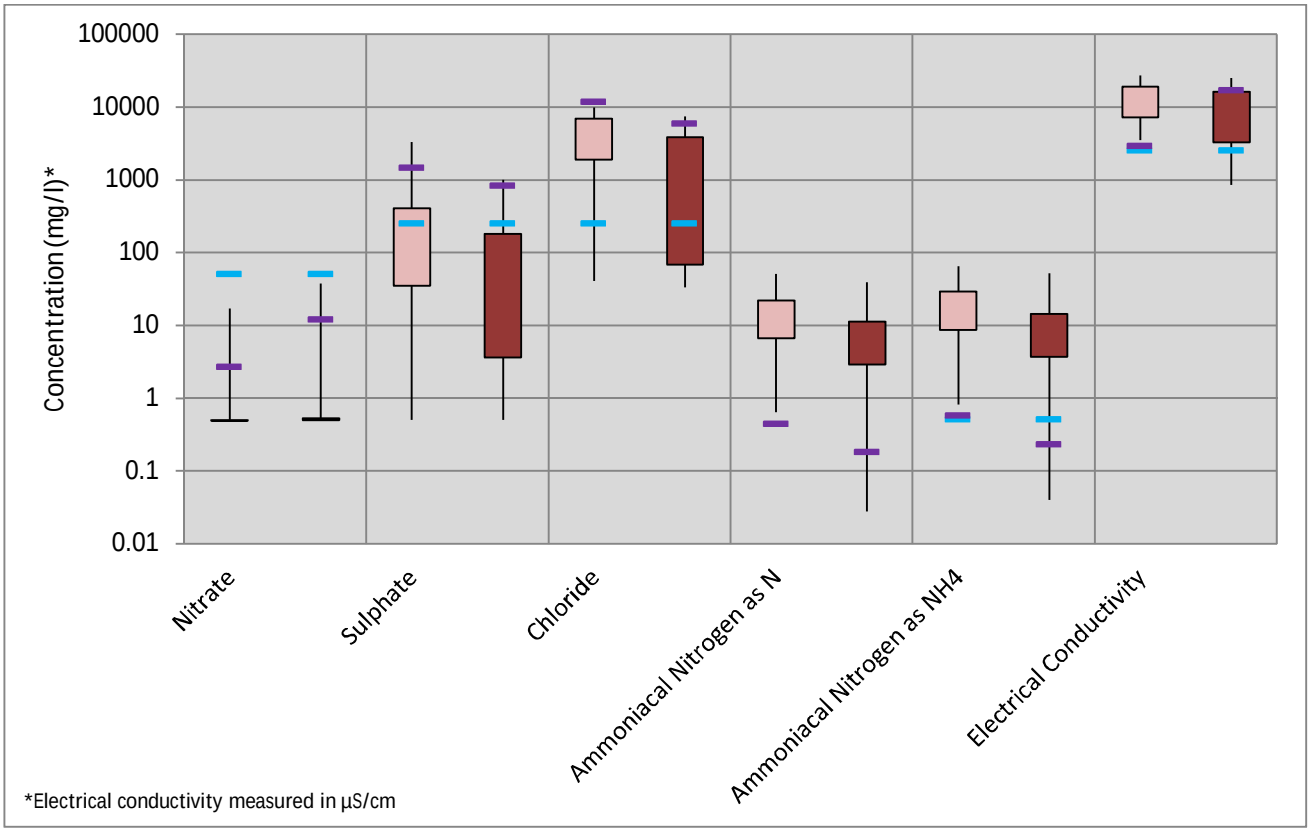


Figure 9: Range of Recorded Concentrations in Groundwater from the Superficial Deposits (Inorganics)

Appendix J: WM3 assessment (hazardous waste)

Appendix J1: Material Reuse and Waste Management Hierarchy

Appendix J2: Classification Report-A63 Castle Street EIA 2014 Data

Appendix J3: Classification Report-A63 Castle Street EIA 2015 Data

Appendix J1: Material Reuse and Waste Management Hierarchy

Materials Management and Waste Classification Hierarchy

1 MATERIALS REUSE

It is envisaged that the construction works may generate significant volumes of soil arisings.

Under current waste legislation excavated soil arisings will be considered to be a waste until demonstrated that such materials cease to be a waste.

The Waste Framework Directive (2008/98/EC) sets the basic concepts and definitions in relation to waste management. Article 4 of the revised Directive sets out 5 steps for dealing with waste, ranked according to environmental impact - the 'waste hierarchy'. Prevention, which offers the best outcomes for the environment, is at the top of the priority order, followed by preparing for re-use, recycling, other recovery and disposal, in descending order of environmental preference.

The following sections provide guidance on methods for waste reduction and an assessment of waste classification specific to excavation arisings on the scheme.

1.1 CL:AIRE Definition of Waste Code Practice

Where significant quantities of waste are being generated by a project, materials may be managed in accordance with the CL:AIRE Definition of Waste Code of Practice (DoW: CoP) (Version 2) (2011), whereby enabling materials to be defined as suitable for re-use and no longer considered waste. This is a more sustainable approach, reduces haulage requirements and minimises disposal costs.

Uncontaminated soil and other naturally occurring material excavated and re-used on-site (for the purposes of construction in its natural state) are understood to be excluded from the Waste Framework Directive (2008) and may be suitable for re-used without a permit or environmental exemption (U1). Where re-use is proposed, this should be confirmed with the regulators.

A permit, environmental exemption (U1 - use of waste in construction) or Materials Management Plan (MMP) will be required to enable re-use of excavated soils, deemed suitable for on-site re-use without treatment with the exception of materials excluded from the Waste Framework Directive as detailed above.

Less than 1,000 tonnes of soils and stones may be suitable for re-use under Exemption U1. If the quantity of made ground increases to over 1,000 tonnes, a MMP and remediation strategy/design statement may be required.

Materials Management Plan

The MMP serves to document how excavated materials are to be dealt with throughout the various construction phases to completion.

The main focus of the MMP (and accompanying remediation strategy/design statement) typically concerns characterisation of excavation arisings (and characterisation of ground conditions at the proposed point of placement) to determine suitability for on-site re-use.

This approach is the most effective method of ensuring that the material can be re-used on-site and will not be considered to be waste by the Environment Agency (EA). The approach

has the additional benefit of avoiding having to surrender waste permitry upon completion of the works.

Clarification should be sought from the regulators (the EA in particular) to understand this requirement. The remediation strategy/design statement would require sign off from an appointed independent CL:AIRE Qualified Person and the regulators.

The MMP would be developed by the Principal Contractor in accordance with the DoW: CoP describing the required materials management throughout the works. All materials subject to excavation and reuse must be tracked throughout the works, and the Principal Contractor would be required to provide an auditable trail in accordance with the materials tracking sheet provided in the MMP. The MMP provides details of:

- all parties involved with the implementation of the MMP;
- descriptions and relevant quantities of materials identified for reuse;
- remediation specification for the use of materials;
- details of storage;
- details of intended final destination of materials;
- details on how materials on-site will be tracked;
- contingency arrangements; and
- validation reporting.

2 WASTE CLASSIFICATION

2.1 Background

The proposed works may require the excavation and disposal of surplus soil/fill material. Assessment must be made of any material which potentially is to be discarded i.e. waste for disposal off-site.

There are legislation and guidance documents which map the way forward for the appropriate classification of waste material, as described below. Assuming that a proportion of the materials arising from the Scheme will require disposal (i.e. are a waste) and do not fall within a category of material excluded from classification (e.g. radioactive wastes, or wastes specifically excluded by Article 2(2) of the European Waste Framework Directive (2008/98/EC)), this process operates through three key stages:

Stage One – Identify the List of Wastes code or codes which would apply to the waste.

The first step in the assessment process is to identify the appropriate waste code for the waste (from the List of Wastes) and confirm further assessment stages, in particular associated with whether the waste is defined as an absolute or mirror entry.

Waste Soils/General Fill Materials

The majority of waste soils/general fill materials arisings comprise soils and stones. Such wastes fall under Chapter 17 of the List of Wastes (LOW), Construction and Demolition Wastes, specifically the following Mirror Entry codes:

- 17-05-03 (Hazardous) – Soil and stones containing Hazardous substances; or,
- 17-05-04 (Non-Hazardous) – Soil and stones other than those mentioned in 17-05-03.

Where present, site surfacing/highways (asphalt or concrete) may require removal to facilitate construction, and if so these materials would also fall under Chapter 17 of the LOW, specifically the following Mirror Entry codes[1]:

Concrete

[1] Sweco acknowledge that there may be different waste codes dependant on the specific scheme.

Considered Non-Hazardous unless it has either become contaminated by hazardous substances, or rarely hazardous substances (e.g. asbestos) may have been used in the original manufacture.

- 17-01-01 (Non-Hazardous) – Concrete; or,
- 17-01-06 (Hazardous) – mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing hazardous substances.

Asphalt (Tarmac) Road Surfaces

Asphalt (tarmac) road surfaces laid down in the 1980s or earlier may contain coal tar. Coal tar was commonly used as a binder in road construction, before being superseded by bitumen. By the 1980s, coal tar was largely confined to surface dressings, but up to the 1970s the main binding material of the asphalt was often coal tar, rather than bitumen. The presence of coal tar binder can render asphalt Hazardous:

- 17-03-01 (Hazardous) – bituminous mixtures containing coal tar; or,
- 17-03-02 (Non-Hazardous) – bituminous mixtures other than those mentioned in 17-03-01.

The selection of either the Hazardous or Non-Hazardous mirror entry codes is completed at Stage Two.

Stage Two – Classification of mirror entry material as either Hazardous or Non-Hazardous

To appropriately undertake this stage, due consideration of EA/SEPA's Technical Guidance WM3 is required, as well as referral to Harmonised Classification data in Table 3.1 of Annex VI of the Classification, Labelling and Packaging of Substances and Mixtures Regulation 1272/2008 (CLP), and other data sources (REACH, IARC, ECHA) for the appropriate hazard identification of chemical substances.

To determine whether materials potentially designated for off-site disposal may be Hazardous, assessment is made by Sweco waste management specialists using the industry recognised HazWasteOnline™ screening tool; a web-based software for classifying Hazardous waste that follows the latest EA guidance and European regulations.

Stage Three – Where landfill disposal of waste is proposed, following the appropriate identification of material as Hazardous or Non Hazardous, further screening of the waste material against Waste Assessment Criteria (WAC) derived results may be required to identify suitable disposal routes.

Stage Three assessment (landfill suitability) relate to disposal of wastes to any landfill sites, or to other waste disposal facilities only where specified in their permits. Assessment assumes disposal to landfill (where unsuitable for re-use or recovery). All waste materials/classifications should be confirmed by the receiving site prior to any disposal.

Material identified as Non-Hazardous at Stage Two can be split into Inert or Non-Hazardous based on assessment against Inert WAC criteria (Non-Hazardous materials passing Inert WAC can be disposed of to an Inert site, those failing inert WAC must be disposed of to a Non-Hazardous site).

Material identified in the Hazardous range at Stage Two can be split into Stable Non-reactive Hazardous (SNRH) or Hazardous based on WAC criteria for these two classifications. Waste materials passing SNRH WAC can be disposed of to a landfill for SNRH waste, while materials failing SNRH WAC but passing Hazardous WAC can be disposed of to a Hazardous landfill.

Hazardous material which does not pass the Hazardous WAC criteria cannot be disposed of to landfill without pre-treatment, to ensure the material can meet Hazardous WAC thresholds. Hazardous materials which cannot be treated to a level where hazardous WAC can be achieved must be disposed of via a non-landfill route.

The European Council Decision 2003/33/EC, establishing criteria and procedures for the acceptance of waste at landfills, identifies wastes that are acceptable without testing at landfills for Inert Waste.

The list of wastes acceptable without testing at landfills for inert waste, includes soils and stones (other than topsoil and peat, and excluding soil and stones from contaminated sites), and therefore unless contaminated (including by poor segregation from other materials). It is considered that uncontaminated sub-base, natural superficial deposits and excavated rock requiring disposal should therefore be acceptable at a landfill or exempt site as Inert Waste without further testing. This should be reviewed with any receiving landfill, in line with their specific permit requirements.

3 DISPOSAL ROUTES AND REQUIREMENTS

As and when construction works commence and should material disposal (to landfill) be necessary, arisings should be treated initially through segregation into distinct material types for disposal.

Appropriate disposal routes should be identified by the waste producer and/or their Principal Contractor. All waste materials/classifications should be confirmed by the receiving landfill prior to any disposal.

During the construction phase, the Principal Contractor may be required to undertake additional testing and assessment in order to comply with UK Waste Regulatory Framework or the requirements of the receiving landfill.

Works including identification and segregation of materials should be supervised by an appropriately qualified environmental engineer, who should also inspect the materials being excavated for any non-conforming wastes (e.g. asbestos, domestic, commercial wastes etc.). The removal and disposal of any non-conforming wastes would remain the responsibility of the Principal Contractor and/or waste producer.

Appendix J2: Classification Report-A63 Castle Street EIA 2014 Data

SWECO

HazWasteOnline™

Waste Classification Report

T7G2M-JVWAT-AYPNM

Job name

A63 Castle Street EIA 2014 Data

Description/Comments

A63 Castle Street EIA 2014 Data

Project

A63 Castle Street EIA 2014 Data

Site

115436

Waste Stream Template

A63 Castle Street Template November 2016

Classified by

Name:
Joe Waterhouse
Date:
10/11/2016 15:03:51 UTC
Telephone:
0113 262 0000

Company:
SWECO
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Report

Created by: Joe Waterhouse
Created date: 10/11/2016 15:03 UTC

Job summary

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
17	BH33	0.5	Hazardous	HP 3(i), HP 7, HP 11, HP 14	47
18	SCPT09	0.5	Non Hazardous		50
19	SCPT04	0.5	Non Hazardous		53
20	SCPT06	0.5	Non Hazardous		56
21	BH11	0.9	Non Hazardous		58
22	BH37	0.1	Non Hazardous		61
23	BH37[1]	2.5	Non Hazardous		63
24	BH37[2]	4	Non Hazardous		66
25	BH22	0.5	Non Hazardous		69
26	BH22[1]	1	Non Hazardous		72
27	SCPT02	0.5	Hazardous	HP 14	74
28	BH04	0.5	Non Hazardous		77
29	BH04[1]	1	Non Hazardous		79
30	BH02	0.5	Non Hazardous		81
31	BH02[1]	1	Non Hazardous		83
32	BH40A	6.7	Non Hazardous		85
33	BH40A[1]	2.7	Non Hazardous		88
34	BH40A[2]	0.8	Non Hazardous		90
35	BH03	0.7	Non Hazardous		92
36	MC03	0.5	Non Hazardous		94
37	SCPT1	1	Non Hazardous		96
38	SPTC3c	0.2	Non Hazardous		99
39	BH01	1	Non Hazardous		101
40	SCPT5B	0.5	Non Hazardous		103
41	BH04[2]	1.6	Non Hazardous		105
42	BH07	2.1	Non Hazardous		107
43	BH07[1]	0.5	Non Hazardous		109
44	BH03[1]	1.5	Non Hazardous		111
45	BH38	2	Non Hazardous		113
46	BH38[1]	8.5	Non Hazardous		115
47	BH38[2]	0.5	Non Hazardous		117
48	SCPT24	1	Non Hazardous		119
49	SCPT24[1]	0.5	Hazardous	HP 3(i), HP 7, HP 11, HP 14	121
50	BH09	1.6	Non Hazardous		124
51	BH45	0.6	Non Hazardous		127
52	BH45[1]	2.5	Non Hazardous		130
53	BH45[2]	0.3	Non Hazardous		132
54	SCPT27	0.5	Non Hazardous		134
55	SCTP27	1	Non Hazardous		136
56	BH17	0.5	Non Hazardous		139
57	BH17[1]	2.25	Non Hazardous		142
58	BH06	1.5	Non Hazardous		145
59	BH06[1]	2.5	Non Hazardous		147
60	BH43	0.5	Non Hazardous		150
61	BH43[1]	1.5	Non Hazardous		152
62	SCPT33	1	Non Hazardous		155
63	BH08	0.2	Non Hazardous		157
64	SCPT07	0.2	Non Hazardous		160
65	BH06[2]	0.3	Non Hazardous		162
66	SCPT10	1	Non Hazardous		165
67	BH42	0.2	Non Hazardous		167
68	SCPT29	0.5	Non Hazardous		169
69	BH29	0.5	Non Hazardous		171
70	BH29[1]	1.5	Non Hazardous		174
71	BH05	1.5	Non Hazardous		176
72	BH05[1]	2	Non Hazardous		179
73	SCPT30	0.5	Non Hazardous		181
74	BH42[1]	3	Non Hazardous		184
75	SCPT23	0.5	Non Hazardous		187

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
76	BH24	0.2	Hazardous	HP 3(i), HP 7, HP 11, HP 14	189
77	BH26	0.3	Non Hazardous		193
78	BH25	0.5	Non Hazardous		195
79	WS24	0.2	Non Hazardous		198
80	TP10	0.8	Non Hazardous		200
81	BH27	1	Non Hazardous		202
82	SCPT21B	0.5	Non Hazardous		205
83	WS18	0.5	Non Hazardous		208
84	WS19	1	Non Hazardous		211
85	WS08	0.5	Non Hazardous		213
86	WS10	0.5	Non Hazardous		216
87	WS11	0.5	Non Hazardous		219
88	WS06	0.5	Non Hazardous		222
89	SCPT13	0.5	Non Hazardous		225
90	SCPT19	0.5	Non Hazardous		227
91	BH24[1]	1.5	Non Hazardous		230
92	WS08[1]	1.2-1.6	Non Hazardous		232
93	WS12	0.3	Hazardous	HP 14	234
94	WS12A	0.4-0.6	Hazardous	HP 3(i), HP 7, HP 11, HP 14	237
95	BH16A	0.5	Non Hazardous		240
96	BH16A[1]	1.5	Non Hazardous		243
97	WS10[1]	1.3-1.6	Non Hazardous		245
98	SCPT21	0.5	Non Hazardous		248
99	BH25[1]	1.5	Non Hazardous		251
100	BH18	0.3	Non Hazardous		253
101	SCPT14	0.5	Non Hazardous		256
102	BH30	1	Non Hazardous		258
103	SCPT28	0.5	Non Hazardous		260
104	SCPT22	0.3	Non Hazardous		262
105	TP05A	1.3-1.9	Non Hazardous		264
106	TP05	0.5-0.6	Non Hazardous		266
107	TP04	0.5-0.7	Non Hazardous		269
108	TP04[1]	0.9-1.0	Non Hazardous		272
109	TP04[2]	1.1-1.5	Non Hazardous		274
110	WS09	0.5-0.9	Hazardous	HP 14	276
111	WS18[1]	2.1-2.9	Non Hazardous		279
112	WS19[1]	1.2-1.8	Non Hazardous		282
113	WS19[2]	3.6-5.0	Non Hazardous		284
114	WS01	0.2-0.4	Non Hazardous		287
115	WS01[1]	1.0-1.2	Non Hazardous		290
116	WS02	0.5-1.0	Non Hazardous		292
117	SCPT14 TRENCH	0.4	Non Hazardous		294
118	SCPT18	0.6-1.0	Non Hazardous		297
119	BH27[1]	1.5	Non Hazardous		300
120	BH44	0.8-1.2	Non Hazardous		302
121	BH44[1]	0.1-0.6	Non Hazardous		305
122	SCPT26	0.7-1.2	Non Hazardous		307
123	SCPT26[1]	0.2-0.5	Non Hazardous		309
124	SCPT34	0.5-0.7	Non Hazardous		311
125	WS03	1.8-2.0	Non Hazardous		314
126	WS26	0.8	Non Hazardous		316
127	WS10A	0.5	Non Hazardous		319
128	WS10A[1]	1.4-1.6	Non Hazardous		322
129	SCPT31	1	Non Hazardous		324
130	WS24[1]	1.2-1.8	Non Hazardous		326
131	WS25	1.83-2	Non Hazardous		328
132	WS25[1]	2-2.5	Non Hazardous		331
133	WS26[1]	1.2-1.5	Non Hazardous		334
134	WS26[2]	1.7-2	Non Hazardous		337

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
135	WS26[3]	2-2.5	Non Hazardous		340
136	TP18	0.25-0.4	Non Hazardous		343
137	TP18[1]	0.25	Non Hazardous		346
138	TP18[2]	0.65-0.7	Non Hazardous		347
139	TP18A	1.9-2.1	Non Hazardous		349
140	BH23	0.5	Non Hazardous		351
141	BH14	0.5	Non Hazardous		354
142	WS12[1]	1.5	Non Hazardous		356
143	WS22	1	Non Hazardous		359
144	SCPT32	0.8	Non Hazardous		361
145	BH41	1.5	Non Hazardous		363
146	WS20	0.25	Non Hazardous		365
147	WS20[1]	1.5	Non Hazardous		368
148	BH41[1]	3	Non Hazardous		371
149	BH41[2]	8.5	Hazardous	HP 3(i), HP 7, HP 11, HP 14	374
150	BH41[3]	9.5	Hazardous	HP 3(i), HP 7, HP 11	377
151	BH44[2]	1.5	Non Hazardous		380
152	WS17	1	Non Hazardous		382
153	WS16	0.5	Non Hazardous		384
154	WS14	0.3	Non Hazardous		386
155	TP11	0.4	Hazardous	HP 7, HP 10, HP 14	388
156	TP11[1]	1.6	Hazardous	HP 3(i), HP 7, HP 11	391
157	BH46	0.5	Hazardous	HP 7	394
158	WS23	0.25	Non Hazardous		397
159	WS13	0.3	Non Hazardous		399
160	TP16	0.1-0.3	Non Hazardous		402
161	TP16[1]	0.6-0.9	Non Hazardous		404
162	WS21	0.5	Hazardous	HP 14	406
163	TP14	0.3-0.5	Non Hazardous		409
164	TP14[1]	1.7-1.9	Non Hazardous		412
165	TP14[2]	2.6-2.8	Non Hazardous		414
166	WS14[1]	1.2-1.67	Non Hazardous		416
167	SCPT35	0.5	Non Hazardous		419
168	WS05	1.2-2	Non Hazardous		421
169	SCPT24A	0.5	Hazardous	HP 3(i), HP 7, HP 11, HP 14	424
170	BH35[2]	5.8	Non Hazardous		427
171	BH36[2]	7.1	Non Hazardous		429
172	BH19A[2]	4.2	Non Hazardous		431
173	BH19A[3]	8.2	Non Hazardous		433
174	BH33[1]	2	Non Hazardous		435
175	BH33[2]	5	Non Hazardous		438
176	BH33[3]	7	Non Hazardous		440
177	BH37[3]	6.5	Non Hazardous		442
178	BH22[2]	2.9	Non Hazardous		444
179	BH11[1]	5.2	Non Hazardous		446
180	BH11[2]	3	Non Hazardous		448
181	BH02[2]	2.8	Non Hazardous		450
182	BH02[3]	4.7	Non Hazardous		453
183	BH04[3]	5.4	Non Hazardous		455
184	BH40A[3]	10.7	Non Hazardous		457
185	BH07[2]	8.5	Non Hazardous		459
186	BH03[2]	4.5	Non Hazardous		461
187	BH01[1]	2	Non Hazardous		463
188	BH01[2]	7	Non Hazardous		465
189	BH09[1]	4.4	Non Hazardous		467
190	BH09[2]	8	Non Hazardous		469
191	BH45[3]	5	Non Hazardous		471
192	BH17[2]	4.6	Non Hazardous		473
193	BH17[3]	7.8	Non Hazardous		475

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
194	SBP03	0.15-0.5	Non Hazardous		477
195	BH06[3]	3	Non Hazardous		480
196	BH43[2]	4.5	Non Hazardous		481
197	BH43[3]	7	Non Hazardous		483
198	BH08[1]	1.5	Non Hazardous		485
199	BH08[2]	4	Non Hazardous		488
200	BH05[2]	4.2	Non Hazardous		490
201	BH29[2]	4	Non Hazardous		492
202	BH10	1.5	Non Hazardous		494
203	BH10[1]	7.5	Non Hazardous		496
204	WS07	1	Non Hazardous		498
205	WS06[1]	1	Non Hazardous		500
206	BH24[2]	4.8	Non Hazardous		502
207	BH24[3]	8	Non Hazardous		504
208	WS07[1]	2.0-2.5	Non Hazardous		506
209	BH16A[2]	3.5	Non Hazardous		508
210	BH16A[3]	8	Non Hazardous		510
211	WS09[1]	2.0-2.2	Non Hazardous		512
212	BH25[2]	4	Non Hazardous		514
213	BH25[3]	7	Non Hazardous		516
214	BH30[1]	7	Non Hazardous		518
215	WS12A[1]	4.5-5.0	Non Hazardous		521
216	WS01[2]	2.5-3.0	Non Hazardous		523
217	WS02[1]	4.5-5.0	Non Hazardous		525
218	BH30A	10	Non Hazardous		527
219	BH30A[1]	10.7	Non Hazardous		530
220	BH27[2]	5.5	Non Hazardous		533
221	WS03[1]	4.8-5.0	Non Hazardous		535
222	WS10A[2]	3.7-4.0	Non Hazardous		537
223	WS24[2]	3.05-3.5	Non Hazardous		539
224	WS25[2]	3.15-3.77	Non Hazardous		541
225	WS26[4]	3.05-3.5	Non Hazardous		544
226	BH47	12	Non Hazardous		547
227	BH47[1]	14	Non Hazardous		549
228	TP18A[1]	3.6-4	Non Hazardous		552
229	BH23[1]	6	Non Hazardous		554
230	BH14[1]	2.5	Non Hazardous		556
231	WS11[1]	4.2	Non Hazardous		558
232	WS20[2]	3.2	Non Hazardous		560
233	BH44[3]	2.5	Non Hazardous		562
234	BH44[4]	4.5	Non Hazardous		564
235	WS05[1]	0.5	Non Hazardous		566
236	TP11[2]	2.8	Non Hazardous		568
237	TP11[3]	4.15	Non Hazardous		571
238	BH41A	9	Non Hazardous		573
239	BH46[1]	2.5	Non Hazardous		575
240	WS13[1]	1.7	Non Hazardous		577
241	TP16[2]	1.6-1.8	Non Hazardous		579
242	WS22[1]	4.5	Non Hazardous		582
243	WS21[1]	3.5	Non Hazardous		584
244	WS14[2]	2.0-3.0	Non Hazardous		586
245	WS05[2]	3.0-4.0	Non Hazardous		588

Classification of sample: BH35

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH35
Sample Depth:
0.5 m
Moisture content:
22%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		18	mg/kg	1.32	23.766	mg/kg	0.00238 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		11	mg/kg	1.46	16.077	mg/kg	0.00161 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		47	mg/kg	1.13	52.917	mg/kg	0.00529 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	250	mg/kg		250	mg/kg	0.025 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		12	mg/kg	2.98	35.715	mg/kg	0.00357 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		65	mg/kg	2.08	135.494	mg/kg	0.0135 %		
12	TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.7	pH		8.7	pH	8.7 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0543 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH35[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH35[1]
Sample Depth:
1.8 m
Moisture content:
26%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 26% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		20 mg/kg	1.32	26.407 mg/kg	0.00264 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		52 mg/kg	1.46	76.0009 mg/kg	0.0076 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		31 mg/kg	1.13	34.903 mg/kg	0.00349 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	100 mg/kg		100 mg/kg	0.01 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		34 mg/kg	2.98	101.193 mg/kg	0.0101 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		110 mg/kg	2.08	229.297 mg/kg	0.0229 %		
12	TPH (C6 to C40) petroleum group			TPH		<14.6 mg/kg		<14.6 mg/kg	<0.00146 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0601 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: SCPT25

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT25
Sample Depth:
1.1 m
Moisture content:
17%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		18 mg/kg	1.32	23.766 mg/kg	0.00238 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		39 mg/kg	1.46	57.000675 mg/kg	0.0057 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		42 mg/kg	1.13	47.287 mg/kg	0.00473 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	260 mg/kg		260 mg/kg	0.026 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		29 mg/kg	2.98	86.312 mg/kg	0.00863 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		83 mg/kg	2.08	173.015 mg/kg	0.0173 %		
12	TPH (C6 to C40) petroleum group			TPH		34 mg/kg		34 mg/kg	0.0034 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.07 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH36

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:
BH36
Sample Depth:
0.45 m
Moisture content:
9.2%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

R50/53 "Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinands:

dicopper oxide; copper (I) oxide: (compound conc.: 0.327%)
zinc chloride: (compound conc.: 0.396%)

Determinands

Moisture content: 9.2% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		28 mg/kg	1.32	36.969 mg/kg	0.0037 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		2 mg/kg	3.22	6.44 mg/kg	0.000644 %		
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		3 mg/kg	1.14	3.427 mg/kg	0.000343 %		
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		33 mg/kg	1.46	48.231 mg/kg	0.00482 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		2900 mg/kg	1.13	3265.076 mg/kg	0.327 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	970 mg/kg		970 mg/kg	0.097 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.35	1.353 mg/kg	0.000135 %		
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		58 mg/kg	2.98	172.623 mg/kg	0.0173 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
10		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<**LOD**
		034-002-00-8											
11		zinc { zinc chloride }				1900	mg/kg	2.08	3960.59	mg/kg	0.396 %		
		030-003-00-2	231-592-0	7646-85-7									
12		TPH (C6 to C40) petroleum group				190	mg/kg		190	mg/kg	0.019 %		
				TPH									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				7.6	pH		7.6	pH	7.6 pH		
				PH									
20		naphthalene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
			201-469-6	83-32-9									
23		fluorene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			201-695-5	86-73-7									
24		phenanthrene				5.6	mg/kg		5.6	mg/kg	0.00056 %		
			201-581-5	85-01-8									
25		anthracene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
			204-371-1	120-12-7									
26		fluoranthene				6.6	mg/kg		6.6	mg/kg	0.00066 %		
			205-912-4	206-44-0									
27		pyrene				5.5	mg/kg		5.5	mg/kg	0.00055 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				3.2	mg/kg		3.2	mg/kg	0.00032 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				3	mg/kg		3	mg/kg	0.0003 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				2.1	mg/kg		2.1	mg/kg	0.00021 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				1.8	mg/kg		1.8	mg/kg	0.00018 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				2.1	mg/kg		2.1	mg/kg	0.00021 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				1.4	mg/kg		1.4	mg/kg	0.00014 %		
			205-883-8	191-24-2									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
36		phenol				0.22	mg/kg		0.22	mg/kg	0.000022 %		
		604-001-00-2	203-632-7	108-95-2									
37		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		607-317-00-9	204-211-0	117-81-7									
										Total:	0.87 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH36[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH36[1]
Sample Depth:
1 m
Moisture content:
20%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 20% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13 mg/kg	1.32	17.164 mg/kg	0.00172 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		29 mg/kg	3.22	93.376 mg/kg	0.00934 %		
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		41 mg/kg	1.46	59.924 mg/kg	0.00599 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		150 mg/kg	1.13	168.883 mg/kg	0.0169 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	60 mg/kg		60 mg/kg	0.006 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		30 mg/kg	2.98	89.288 mg/kg	0.00893 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		160 mg/kg	2.08	333.523 mg/kg	0.0334 %		
12	TPH (C6 to C40) petroleum group			TPH		5 mg/kg		5 mg/kg	0.0005 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0843 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT17

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT17
Sample Depth:
0.5 m
Moisture content:
14%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		23 mg/kg	1.32	30.367 mg/kg	0.00304 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		3 mg/kg	3.22	9.66 mg/kg	0.000966 %		
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		17 mg/kg	1.46	24.846 mg/kg	0.00248 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		49 mg/kg	1.13	55.169 mg/kg	0.00552 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	760 mg/kg		760 mg/kg	0.076 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		12 mg/kg	2.98	35.715 mg/kg	0.00357 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		91 mg/kg	2.08	189.691 mg/kg	0.019 %		
12	TPH (C6 to C40) petroleum group			TPH		140 mg/kg		140 mg/kg	0.014 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
20		naphthalene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			201-469-6	83-32-9									
23		fluorene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			201-695-5	86-73-7									
24		phenanthrene				3.3	mg/kg		3.3	mg/kg	0.00033 %		
			201-581-5	85-01-8									
25		anthracene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			204-371-1	120-12-7									
26		fluoranthene				5	mg/kg		5	mg/kg	0.0005 %		
			205-912-4	206-44-0									
27		pyrene				4.2	mg/kg		4.2	mg/kg	0.00042 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				2	mg/kg		2	mg/kg	0.0002 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				1.9	mg/kg		1.9	mg/kg	0.00019 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
			205-883-8	191-24-2									
36		phenol				0.77	mg/kg		0.77	mg/kg	0.000077 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.128 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH19A

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH19A
Sample Depth:
1.05 m
Moisture content:
21%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 21% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17 mg/kg	1.32	22.446 mg/kg	0.00224 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		21 mg/kg	1.46	30.693 mg/kg	0.00307 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		40 mg/kg	1.13	45.036 mg/kg	0.0045 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	300 mg/kg		300 mg/kg	0.03 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		15 mg/kg	2.98	44.644 mg/kg	0.00446 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		96 mg/kg	2.08	200.114 mg/kg	0.02 %		
12	TPH (C6 to C40) petroleum group			TPH		5 mg/kg		5 mg/kg	0.0005 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				9.9	pH		9.9	pH	9.9 pH		
				PH									
20		naphthalene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-469-6	83-32-9									
23		fluorene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-695-5	86-73-7									
24		phenanthrene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
			201-581-5	85-01-8									
25		anthracene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			204-371-1	120-12-7									
26		fluoranthene				1.4	mg/kg		1.4	mg/kg	0.00014 %		
			205-912-4	206-44-0									
27		pyrene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0	mg/kg		<0.00035	mg/kg	<0.000000035 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
38		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				2.8	mg/kg		2.8	mg/kg	0.00028 %		
		607-317-00-9	204-211-0	117-81-7									
										Total:	0.0676 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH19A[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH19A[1]
Sample Depth:
2.3 m
Moisture content:
32%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 32% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1 mg/kg	3.22	3.22 mg/kg	0.000322 %		
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		29 mg/kg	1.46	42.385 mg/kg	0.00424 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		26 mg/kg	1.13	29.273 mg/kg	0.00293 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	43 mg/kg		43 mg/kg	0.0043 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27 mg/kg	2.98	80.359 mg/kg	0.00804 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		110 mg/kg	2.08	229.297 mg/kg	0.0229 %		
12	TPH (C6 to C40) petroleum group			TPH		<14.6 mg/kg		<14.6 mg/kg	<0.00146 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0472 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH39

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH39
Sample Depth:
0.5 m
Moisture content:
4.1%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 4.1% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		8 mg/kg	1.46	11.692 mg/kg	0.00117 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15 mg/kg	1.13	16.888 mg/kg	0.00169 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	45 mg/kg		45 mg/kg	0.0045 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		9 mg/kg	2.98	26.786 mg/kg	0.00268 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		120 mg/kg	2.08	250.143 mg/kg	0.025 %		
12	TPH (C6 to C40) petroleum group			TPH		5 mg/kg		5 mg/kg	0.0005 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.7	pH		8.7	pH	8.7 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-912-4	206-44-0									
22		pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0386 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH39[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH39[1]
Sample Depth:
3 m
Moisture content:
17%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		23 mg/kg	1.46	33.616 mg/kg	0.00336 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		20 mg/kg	1.13	22.518 mg/kg	0.00225 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	64 mg/kg		64 mg/kg	0.0064 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21 mg/kg	2.98	62.502 mg/kg	0.00625 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		86 mg/kg	2.08	179.269 mg/kg	0.0179 %		
12	TPH (C6 to C40) petroleum group			TPH		21 mg/kg		21 mg/kg	0.0021 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				0.039	mg/kg		0.039	mg/kg	0.0000039 %		
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
20		naphthalene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
			201-581-5	85-01-8									
25		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
26		fluoranthene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
			205-912-4	206-44-0									
27		pyrene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.042 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH39[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH39[2]
Sample Depth:
6.5 m
Moisture content:
25%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 25% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		24 mg/kg	1.46	35.077 mg/kg	0.00351 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14 mg/kg	1.13	15.762 mg/kg	0.00158 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	20 mg/kg		20 mg/kg	0.002 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23 mg/kg	2.98	68.454 mg/kg	0.00685 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		62 mg/kg	2.08	129.24 mg/kg	0.0129 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.9	pH		8.9	pH	8.9 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0304 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: SCPT20

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT20
Sample Depth:
0.5 m
Moisture content:
12%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 12% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17 mg/kg	1.32	22.446 mg/kg	0.00224 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		30 mg/kg	1.46	43.847 mg/kg	0.00438 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		57 mg/kg	1.13	64.176 mg/kg	0.00642 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	360 mg/kg		360 mg/kg	0.036 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21 mg/kg	2.98	62.502 mg/kg	0.00625 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		170 mg/kg	2.08	354.369 mg/kg	0.0354 %		
12	TPH (C6 to C40) petroleum group			TPH		630 mg/kg		630 mg/kg	0.063 %		

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
15		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
16		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
17		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
19		pH			PH		8.3	pH		8.3	pH	8.3 pH		
20		naphthalene	601-052-00-2	202-049-5	91-20-3		1.1	mg/kg		1.1	mg/kg	0.00011 %		
21		acenaphthylene		205-917-1	208-96-8		0.7	mg/kg		0.7	mg/kg	0.00007 %		
22		acenaphthene		201-469-6	83-32-9		1.6	mg/kg		1.6	mg/kg	0.00016 %		
23		fluorene		201-695-5	86-73-7		1.6	mg/kg		1.6	mg/kg	0.00016 %		
24		phenanthrene		201-581-5	85-01-8		13	mg/kg		13	mg/kg	0.0013 %		
25		anthracene		204-371-1	120-12-7		3.9	mg/kg		3.9	mg/kg	0.00039 %		
26		fluoranthene		205-912-4	206-44-0		30	mg/kg		30	mg/kg	0.003 %		
27		pyrene		204-927-3	129-00-0		27	mg/kg		27	mg/kg	0.0027 %		
28		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		15	mg/kg		15	mg/kg	0.0015 %		
29		chrysene	601-048-00-0	205-923-4	218-01-9		14	mg/kg		14	mg/kg	0.0014 %		
30		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		11	mg/kg		11	mg/kg	0.0011 %		
31		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		11	mg/kg		11	mg/kg	0.0011 %		
32		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		11	mg/kg		11	mg/kg	0.0011 %		
33		indeno[123-cd]pyrene		205-893-2	193-39-5		6	mg/kg		6	mg/kg	0.0006 %		
34		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		2.2	mg/kg		2.2	mg/kg	0.00022 %		
35		benzo[ghi]perylene		205-883-8	191-24-2		5.9	mg/kg		5.9	mg/kg	0.00059 %		
36		phenol	604-001-00-2	203-632-7	108-95-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
37		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<**LOD**
38		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP	607-317-00-9	204-211-0	117-81-7		0.7	mg/kg		0.7	mg/kg	0.00007 %		
											Total:	0.171 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT08

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT08
Sample Depth:
0.5 m
Moisture content:
16%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		22 mg/kg	1.32	29.047 mg/kg	0.0029 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		17 mg/kg	1.46	24.846 mg/kg	0.00248 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		32 mg/kg	1.13	36.028 mg/kg	0.0036 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	1700 mg/kg		1700 mg/kg	0.17 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.35	1.353 mg/kg	0.000135 %		
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		13 mg/kg	2.98	38.691 mg/kg	0.00387 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		180 mg/kg	2.08	375.214 mg/kg	0.0375 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
			205-912-4	206-44-0									
22		pyrene				1	mg/kg		1	mg/kg	0.0001 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.223 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH39[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH39[3]
Sample Depth:
7.5 m
Moisture content:
23%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 23% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11	mg/kg	1.32	14.524	mg/kg	0.00145 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		23	mg/kg	1.46	33.616	mg/kg	0.00336 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13	mg/kg	1.13	14.637	mg/kg	0.00146 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	19	mg/kg		19	mg/kg	0.0019 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22	mg/kg	2.98	65.478	mg/kg	0.00655 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		59	mg/kg	2.08	122.987	mg/kg	0.0123 %		
12	TPH (C6 to C40) petroleum group			TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				9.1	pH		9.1	pH	9.1 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.029 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: SCPT11

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT11
Sample Depth:
0.5 m
Moisture content:
12%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 12% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15	mg/kg	1.32	19.805	mg/kg	0.00198 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		30	mg/kg	1.46	43.847	mg/kg	0.00438 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		38	mg/kg	1.13	42.784	mg/kg	0.00428 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	160	mg/kg		160	mg/kg	0.016 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		25	mg/kg	2.98	74.407	mg/kg	0.00744 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		110	mg/kg	2.08	229.297	mg/kg	0.0229 %		
12	TPH (C6 to C40) petroleum group			TPH		6	mg/kg		6	mg/kg	0.0006 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				9	pH		9	pH	9pH		
				PH									
20		naphthalene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
			201-581-5	85-01-8									
25		anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-371-1	120-12-7									
26		fluoranthene				2.1	mg/kg		2.1	mg/kg	0.00021 %		
			205-912-4	206-44-0									
27		pyrene				1.9	mg/kg		1.9	mg/kg	0.00019 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				1	mg/kg		1	mg/kg	0.0001 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0	mg/kg		<0.00046	mg/kg	<0.000000046 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0604 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT15

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:
SCPT15
Sample Depth:
0.5 m
Moisture content:
4.5%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

R50/53 "Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex: (Note 1 conc.: 0.29%)

Determinands

Moisture content: 4.5% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		25	mg/kg	1.32	33.008	mg/kg	0.0033 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		6	mg/kg	3.22	19.319	mg/kg	0.00193 %		
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		**<LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		34	mg/kg	1.46	49.693	mg/kg	0.00497 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		**<LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		140	mg/kg	1.13	157.624	mg/kg	0.0158 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	2900	mg/kg		2900	mg/kg	0.29 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		**<LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		24	mg/kg	2.98	71.43	mg/kg	0.00714 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		**<LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
11		zinc { zinc chloride }				460	mg/kg	2.08	958.88	mg/kg	0.0959 %		
		030-003-00-2	231-592-0	7646-85-7									
12		TPH (C6 to C40) petroleum group				<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
				TPH									
13		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
14		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19		phenanthrene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21		fluoranthene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			205-912-4	206-44-0									
22		pyrene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.421 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH33

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:	LoW Code:	
BH33	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.5 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
Moisture content:		
12% (no correction)		

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.142%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.142%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.142%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

R52/53 "Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinand:

benzo[a]anthracene: (conc.: 0.003%)

Determinands

Moisture content: 12% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		18	mg/kg	1.32	23.766	mg/kg	0.00238 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		32	mg/kg	1.46	46.77	mg/kg	0.00468 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		270	mg/kg	1.13	303.99	mg/kg	0.0304 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	620	mg/kg		620	mg/kg	0.062 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		25	mg/kg	2.98	74.407	mg/kg	0.00744 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		310	mg/kg	2.08	646.202	mg/kg	0.0646 %		
12	TPH (C6 to C40) petroleum group			TPH		1421	mg/kg		1421	mg/kg	0.142 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
14	pH			PH		9.5	pH		9.5	pH	9.5 pH		
15	naphthalene	601-052-00-2	202-049-5	91-20-3		3.2	mg/kg		3.2	mg/kg	0.00032 %		
16	acenaphthylene		205-917-1	208-96-8		0.1	mg/kg		0.1	mg/kg	0.00001 %		
17	acenaphthene		201-469-6	83-32-9		7.1	mg/kg		7.1	mg/kg	0.00071 %		
18	fluorene		201-695-5	86-73-7		7	mg/kg		7	mg/kg	0.0007 %		
19	phenanthrene		201-581-5	85-01-8		74	mg/kg		74	mg/kg	0.0074 %		
20	anthracene		204-371-1	120-12-7		17	mg/kg		17	mg/kg	0.0017 %		
21	fluoranthene		205-912-4	206-44-0		110	mg/kg		110	mg/kg	0.011 %		
22	pyrene		204-927-3	129-00-0		88	mg/kg		88	mg/kg	0.0088 %		
23	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		30	mg/kg		30	mg/kg	0.003 %		
24	chrysene	601-048-00-0	205-923-4	218-01-9		29	mg/kg		29	mg/kg	0.0029 %		
25	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		25	mg/kg		25	mg/kg	0.0025 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
26		benzo[k]fluoranthene				20	mg/kg		20	mg/kg	0.002 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				24	mg/kg		24	mg/kg	0.0024 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				9.5	mg/kg		9.5	mg/kg	0.00095 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				3.3	mg/kg		3.3	mg/kg	0.00033 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				11	mg/kg		11	mg/kg	0.0011 %		
			205-883-8	191-24-2									
31		phenol				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.361 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT09

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT09
Sample Depth:
0.5 m
Moisture content:
14%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		27 mg/kg	1.46	39.462 mg/kg	0.00395 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		26 mg/kg	1.13	29.273 mg/kg	0.00293 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	39 mg/kg		39 mg/kg	0.0039 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26 mg/kg	2.98	77.383 mg/kg	0.00774 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		100 mg/kg	2.08	208.452 mg/kg	0.0208 %		
12	TPH (C6 to C40) petroleum group			TPH		<14.6 mg/kg		<14.6 mg/kg	<0.00146 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.044 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: SCPT04

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT04
Sample Depth:
0.5 m
Moisture content:
13%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		22 mg/kg	1.32	29.047 mg/kg	0.0029 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		19 mg/kg	1.46	27.77 mg/kg	0.00278 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		53 mg/kg	1.13	59.672 mg/kg	0.00597 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	1700 mg/kg		1700 mg/kg	0.17 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		2 mg/kg	1.35	2.707 mg/kg	0.000271 %		
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		16 mg/kg	2.98	47.62 mg/kg	0.00476 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		260 mg/kg	2.08	541.976 mg/kg	0.0542 %		
12	TPH (C6 to C40) petroleum group			TPH		210 mg/kg		210 mg/kg	0.021 %		

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
15		toluene	601-021-00-3	203-625-9	108-88-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
16		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
17		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<**LOD**
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
19		pH			PH		8.8	pH		8.8	pH	8.8 pH		
20		naphthalene	601-052-00-2	202-049-5	91-20-3		1.2	mg/kg		1.2	mg/kg	0.00012 %		
21		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
22		acenaphthene		201-469-6	83-32-9		0.6	mg/kg		0.6	mg/kg	0.00006 %		
23		fluorene		201-695-5	86-73-7		0.4	mg/kg		0.4	mg/kg	0.00004 %		
24		phenanthrene		201-581-5	85-01-8		3.5	mg/kg		3.5	mg/kg	0.00035 %		
25		anthracene		204-371-1	120-12-7		0.6	mg/kg		0.6	mg/kg	0.00006 %		
26		fluoranthene		205-912-4	206-44-0		4.9	mg/kg		4.9	mg/kg	0.00049 %		
27		pyrene		204-927-3	129-00-0		4.3	mg/kg		4.3	mg/kg	0.00043 %		
28		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		2.3	mg/kg		2.3	mg/kg	0.00023 %		
29		chrysene	601-048-00-0	205-923-4	218-01-9		2.7	mg/kg		2.7	mg/kg	0.00027 %		
30		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		1.7	mg/kg		1.7	mg/kg	0.00017 %		
31		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		1.9	mg/kg		1.9	mg/kg	0.00019 %		
32		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		2.1	mg/kg		2.1	mg/kg	0.00021 %		
33		indeno[123-cd]pyrene		205-893-2	193-39-5		1	mg/kg		1	mg/kg	0.0001 %		
34		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.4	mg/kg		0.4	mg/kg	0.00004 %		
35		benzo[ghi]perylene		205-883-8	191-24-2		1.2	mg/kg		1.2	mg/kg	0.00012 %		
36		phenol	604-001-00-2	203-632-7	108-95-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
37		asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
								Total:	0.267 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT06

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT06
Sample Depth:
0.5 m
Moisture content:
10%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 10% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		23 mg/kg	1.32	30.367 mg/kg	0.00304 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		19 mg/kg	1.46	27.77 mg/kg	0.00278 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		55 mg/kg	1.13	61.924 mg/kg	0.00619 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	1000 mg/kg		1000 mg/kg	0.1 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		14 mg/kg	2.98	41.668 mg/kg	0.00417 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		230 mg/kg	2.08	479.44 mg/kg	0.0479 %		
12	TPH (C6 to C40) petroleum group			TPH		36 mg/kg		36 mg/kg	0.0036 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
15		naphthalene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			205-917-1	208-96-8									
17	●	acenaphthene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
			201-469-6	83-32-9									
18	●	fluorene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
			201-695-5	86-73-7									
19	●	phenanthrene				16	mg/kg		16	mg/kg	0.0016 %		
			201-581-5	85-01-8									
20	●	anthracene				3.7	mg/kg		3.7	mg/kg	0.00037 %		
			204-371-1	120-12-7									
21	●	fluoranthene				17	mg/kg		17	mg/kg	0.0017 %		
			205-912-4	206-44-0									
22	●	pyrene				13	mg/kg		13	mg/kg	0.0013 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				7.3	mg/kg		7.3	mg/kg	0.00073 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				6.8	mg/kg		6.8	mg/kg	0.00068 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				4.6	mg/kg		4.6	mg/kg	0.00046 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				4.5	mg/kg		4.5	mg/kg	0.00045 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				4.9	mg/kg		4.9	mg/kg	0.00049 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				2.2	mg/kg		2.2	mg/kg	0.00022 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				1	mg/kg		1	mg/kg	0.0001 %		
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				2.6	mg/kg		2.6	mg/kg	0.00026 %		
			205-883-8	191-24-2									
31		phenol				0.04	mg/kg		0.04	mg/kg	0.000004 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.178 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH11

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH11
Sample Depth:
0.9 m
Moisture content:
21%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 21% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		24 mg/kg	1.46	35.077 mg/kg	0.00351 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14 mg/kg	1.13	15.762 mg/kg	0.00158 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	16 mg/kg		16 mg/kg	0.0016 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23 mg/kg	2.98	68.454 mg/kg	0.00685 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		63 mg/kg	2.08	131.325 mg/kg	0.0131 %		
12	TPH (C6 to C40) petroleum group			TPH		<14.6 mg/kg		<14.6 mg/kg	<0.00146 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0312 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH37

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH37
Sample Depth:
0.1 m
Moisture content:
9.6%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 9.6% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16 mg/kg	1.32	21.125 mg/kg	0.00211 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		23 mg/kg	1.46	33.616 mg/kg	0.00336 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		56 mg/kg	1.13	63.05 mg/kg	0.0063 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	160 mg/kg		160 mg/kg	0.016 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20 mg/kg	2.98	59.525 mg/kg	0.00595 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		180 mg/kg	2.08	375.214 mg/kg	0.0375 %		
12	TPH (C6 to C40) petroleum group			TPH		64 mg/kg		64 mg/kg	0.0064 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.2	pH		7.2	pH	7.2 pH		
				PH									
15		naphthalene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
			201-581-5	85-01-8									
20	●	anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21	●	fluoranthene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
			205-912-4	206-44-0									
22	●	pyrene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0801 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH37[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH37[1]
Sample Depth:
2.5 m
Moisture content:
27%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 27% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		25 mg/kg	1.46	36.539 mg/kg	0.00365 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18 mg/kg	1.13	20.266 mg/kg	0.00203 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	56 mg/kg		56 mg/kg	0.0056 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		24 mg/kg	2.98	71.43 mg/kg	0.00714 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		65 mg/kg	2.08	135.494 mg/kg	0.0135 %		
12	TPH (C6 to C40) petroleum group			TPH		<14.6 mg/kg		<14.6 mg/kg	<0.00146 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				8.9	pH		8.9	pH	8.9 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0368 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH37[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH37[2]
Sample Depth:
4 m
Moisture content:
25%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 25% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11	mg/kg	1.32	14.524	mg/kg	0.00145 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		27	mg/kg	1.46	39.462	mg/kg	0.00395 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		35	mg/kg	1.13	39.406	mg/kg	0.00394 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	84	mg/kg		84	mg/kg	0.0084 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18	mg/kg	2.98	53.573	mg/kg	0.00536 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		55	mg/kg	2.08	114.649	mg/kg	0.0115 %		
12	TPH (C6 to C40) petroleum group			TPH		<14.6	mg/kg		<14.6	mg/kg	<0.00146 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0	mg/kg		<0.00035	mg/kg	<0.000000035 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0379 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH22

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH22
Sample Depth:
0.5 m
Moisture content:
12%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 12% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		35 mg/kg	1.32	46.211 mg/kg	0.00462 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		23 mg/kg	1.46	33.616 mg/kg	0.00336 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		1100 mg/kg	1.13	1238.477 mg/kg	0.124 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	670 mg/kg		670 mg/kg	0.067 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		35 mg/kg	2.98	104.169 mg/kg	0.0104 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		540 mg/kg	2.08	1125.641 mg/kg	0.113 %		
12	TPH (C6 to C40) petroleum group			TPH		23 mg/kg		23 mg/kg	0.0023 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
20		naphthalene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				1.8	mg/kg		1.8	mg/kg	0.00018 %		
			201-581-5	85-01-8									
25		anthracene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			204-371-1	120-12-7									
26		fluoranthene				2.5	mg/kg		2.5	mg/kg	0.00025 %		
			205-912-4	206-44-0									
27		pyrene				2.2	mg/kg		2.2	mg/kg	0.00022 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				1	mg/kg		1	mg/kg	0.0001 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
37		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		607-317-00-9	204-211-0	117-81-7									
										Total:	0.327 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH22[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH22[1]
Sample Depth:
1 m
Moisture content:
22%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		27 mg/kg	1.32	35.649 mg/kg	0.00356 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		16 mg/kg	1.46	23.385 mg/kg	0.00234 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		210 mg/kg	1.13	236.437 mg/kg	0.0236 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	300 mg/kg		300 mg/kg	0.03 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20 mg/kg	2.98	59.525 mg/kg	0.00595 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		160 mg/kg	2.08	333.523 mg/kg	0.0334 %		
12	TPH (C6 to C40) petroleum group			TPH		7 mg/kg		7 mg/kg	0.0007 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-912-4	206-44-0									
22		pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.102 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT02

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:
SCPT02
Sample Depth:
0.5 m
Moisture content:
14%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

R50/53 "Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinands:

lead compounds with the exception of those specified elsewhere in this Annex: (Note 1 conc.: 0.18%)
zinc chloride: (compound conc.: 0.106%)

Determinands

Moisture content: 14% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		27 mg/kg	1.32	35.649 mg/kg	0.00356 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		27 mg/kg	1.46	39.462 mg/kg	0.00395 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		89 mg/kg	1.13	100.204 mg/kg	0.01 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	1800 mg/kg		1800 mg/kg	0.18 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		4 mg/kg	1.35	5.414 mg/kg	0.000541 %		
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18 mg/kg	2.98	53.573 mg/kg	0.00536 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
10		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
		034-002-00-8											
11		zinc { zinc chloride }				510	mg/kg	2.08	1063.106	mg/kg	0.106 %		
		030-003-00-2	231-592-0	7646-85-7									
12		TPH (C6 to C40) petroleum group				102	mg/kg		102	mg/kg	0.0102 %		
				TPH									
13		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
14		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				5.1	mg/kg		5.1	mg/kg	0.00051 %		
			201-581-5	85-01-8									
20		anthracene				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				9.1	mg/kg		9.1	mg/kg	0.00091 %		
			205-912-4	206-44-0									
22		pyrene				7.7	mg/kg		7.7	mg/kg	0.00077 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				3.9	mg/kg		3.9	mg/kg	0.00039 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				4.2	mg/kg		4.2	mg/kg	0.00042 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				3.3	mg/kg		3.3	mg/kg	0.00033 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				2	mg/kg		2	mg/kg	0.0002 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				3.2	mg/kg		3.2	mg/kg	0.00032 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				2.1	mg/kg		2.1	mg/kg	0.00021 %		
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.326 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH04

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH04
Sample Depth:
0.5 m
Moisture content:
11%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		21 mg/kg	1.46	30.693 mg/kg	0.00307 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		29 mg/kg	1.13	32.651 mg/kg	0.00327 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	240 mg/kg		240 mg/kg	0.024 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17 mg/kg	2.98	50.597 mg/kg	0.00506 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		98 mg/kg	2.08	204.283 mg/kg	0.0204 %		
12	TPH (C6 to C40) petroleum group			TPH		80 mg/kg		80 mg/kg	0.008 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
			205-912-4	206-44-0									
22	●	pyrene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0677 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH04[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH04[1]
Sample Depth:
1 m
Moisture content:
18%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 18% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		37 mg/kg	1.46	54.078 mg/kg	0.00541 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		19 mg/kg	1.13	21.392 mg/kg	0.00214 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	45 mg/kg		45 mg/kg	0.0045 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		32 mg/kg	2.98	95.24 mg/kg	0.00952 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		93 mg/kg	2.08	193.86 mg/kg	0.0194 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0445 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH02

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH02
Sample Depth:
0.5 m
Moisture content:
8.6%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 8.6% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		26 mg/kg	1.32	34.328 mg/kg	0.00343 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		32 mg/kg	1.46	46.77 mg/kg	0.00468 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		330 mg/kg	1.13	371.543 mg/kg	0.0372 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	770 mg/kg		770 mg/kg	0.077 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		2 mg/kg	1.35	2.707 mg/kg	0.000271 %		
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		32 mg/kg	2.98	95.24 mg/kg	0.00952 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				50 mg/kg	2.55	127.68 mg/kg	0.0128 %		
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		480 mg/kg	2.08	1000.57 mg/kg	0.1 %		
12	TPH (C6 to C40) petroleum group			TPH		54 mg/kg		54 mg/kg	0.0054 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8	pH		8	pH	8pH		
				PH									
15		naphthalene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		**<LOD**
			205-917-1	208-96-8									
17	●	acenaphthene				3.9	mg/kg		3.9	mg/kg	0.00039 %		
			201-469-6	83-32-9									
18	●	fluorene				4.9	mg/kg		4.9	mg/kg	0.00049 %		
			201-695-5	86-73-7									
19	●	phenanthrene				47	mg/kg		47	mg/kg	0.0047 %		
			201-581-5	85-01-8									
20	●	anthracene				10	mg/kg		10	mg/kg	0.001 %		
			204-371-1	120-12-7									
21	●	fluoranthene				70	mg/kg		70	mg/kg	0.007 %		
			205-912-4	206-44-0									
22	●	pyrene				56	mg/kg		56	mg/kg	0.0056 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				24	mg/kg		24	mg/kg	0.0024 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				22	mg/kg		22	mg/kg	0.0022 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				18	mg/kg		18	mg/kg	0.0018 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				12	mg/kg		12	mg/kg	0.0012 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				18	mg/kg		18	mg/kg	0.0018 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				7.1	mg/kg		7.1	mg/kg	0.00071 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				2.5	mg/kg		2.5	mg/kg	0.00025 %		
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				7.7	mg/kg		7.7	mg/kg	0.00077 %		
			205-883-8	191-24-2									
31		phenol				0.37	mg/kg		0.37	mg/kg	0.000037 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.282 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH02[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH02[1]
Sample Depth:
1 m
Moisture content:
24%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 24% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16 mg/kg	1.32	21.125 mg/kg	0.00211 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		39 mg/kg	1.46	57.000675 mg/kg	0.0057 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		28 mg/kg	1.13	31.525 mg/kg	0.00315 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	79 mg/kg		79 mg/kg	0.0079 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		35 mg/kg	2.98	104.169 mg/kg	0.0104 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		100 mg/kg	2.08	208.452 mg/kg	0.0208 %		
12	TPH (C6 to C40) petroleum group			TPH		2 mg/kg		2 mg/kg	0.0002 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0522 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH40A

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH40A
Sample Depth:
6.7 m
Moisture content:
24%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 24% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		23 mg/kg	1.46	33.616 mg/kg	0.00336 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15 mg/kg	1.13	16.888 mg/kg	0.00169 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	29 mg/kg		29 mg/kg	0.0029 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		24 mg/kg	2.98	71.43 mg/kg	0.00714 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		59 mg/kg	2.08	122.987 mg/kg	0.0123 %		
12	TPH (C6 to C40) petroleum group			TPH		<14.6 mg/kg		<14.6 mg/kg	<0.00146 %		<LOD

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
14		benzene	601-020-00-8	200-753-7	71-43-2		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
15		toluene	601-021-00-3	203-625-9	108-88-3		16	mg/kg		16	mg/kg	0.0016 %		
16		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
17		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		28	mg/kg		28	mg/kg	0.0028 %		
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
19		pH			PH		8.3	pH		8.3	pH	8.3 pH		
20		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
21		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
22		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24		phenanthrene		201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25		anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		fluoranthene		205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
27		pyrene		204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
29		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
30		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
31		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
32		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
33		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
34		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
35		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
36		phenol	604-001-00-2	203-632-7	108-95-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
											Total:	0.0397 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH40A[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH40A[1]
Sample Depth:
2.7 m
Moisture content:
28%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 28% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10	mg/kg	1.32	13.203	mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		2	mg/kg	3.22	6.44	mg/kg	0.000644 %		
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		17	mg/kg	1.46	24.846	mg/kg	0.00248 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13	mg/kg	1.13	14.637	mg/kg	0.00146 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	24	mg/kg		24	mg/kg	0.0024 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18	mg/kg	2.98	53.573	mg/kg	0.00536 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		40	mg/kg	2.08	83.381	mg/kg	0.00834 %		
12	TPH (C6 to C40) petroleum group			TPH		3	mg/kg		3	mg/kg	0.0003 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0239 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH40A[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH40A[2]
Sample Depth:
0.8 m
Moisture content:
26%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 26% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		20 mg/kg	1.46	29.231 mg/kg	0.00292 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.13	14.637 mg/kg	0.00146 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	16 mg/kg		16 mg/kg	0.0016 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21 mg/kg	2.98	62.502 mg/kg	0.00625 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		48 mg/kg	2.08	100.057 mg/kg	0.01 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0257 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH03

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH03
Sample Depth:
0.7 m
Moisture content:
23%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 23% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		19 mg/kg	1.32	25.086 mg/kg	0.00251 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		36 mg/kg	1.46	52.616 mg/kg	0.00526 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		37 mg/kg	1.13	41.658 mg/kg	0.00417 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	43 mg/kg		43 mg/kg	0.0043 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		38 mg/kg	2.98	113.098 mg/kg	0.0113 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		86 mg/kg	2.08	179.269 mg/kg	0.0179 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8	pH		8	pH	8pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0475 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: MC03

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
MC03
Sample Depth:
0.5 m
Moisture content:
24%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 24% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		21 mg/kg	1.32	27.727 mg/kg	0.00277 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		38 mg/kg	1.46	55.539 mg/kg	0.00555 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		22 mg/kg	1.13	24.77 mg/kg	0.00248 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	38 mg/kg		38 mg/kg	0.0038 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		43 mg/kg	2.98	127.979 mg/kg	0.0128 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		94 mg/kg	2.08	195.945 mg/kg	0.0196 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.049 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: SCPT1

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT1
Sample Depth:
1 m
Moisture content:
22%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15 mg/kg	1.32	19.805 mg/kg	0.00198 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		34 mg/kg	1.46	49.693 mg/kg	0.00497 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18 mg/kg	1.13	20.266 mg/kg	0.00203 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	30 mg/kg		30 mg/kg	0.003 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		36 mg/kg	2.98	107.146 mg/kg	0.0107 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		78 mg/kg	2.08	162.593 mg/kg	0.0163 %		
12	TPH (C6 to C40) petroleum group			TPH		<14.6 mg/kg		<14.6 mg/kg	<0.00146 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				0.035	mg/kg		0.035	mg/kg	0.0000035 %		
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				8	pH		8	pH	8pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0423 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SPTC3c

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SPTC3c
Sample Depth:
0.2 m
Moisture content:
15%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 15% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17 mg/kg	1.32	22.446 mg/kg	0.00224 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		24 mg/kg	1.46	35.077 mg/kg	0.00351 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		40 mg/kg	1.13	45.036 mg/kg	0.0045 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	220 mg/kg		220 mg/kg	0.022 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23 mg/kg	2.98	68.454 mg/kg	0.00685 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		100 mg/kg	2.08	208.452 mg/kg	0.0208 %		
12	TPH (C6 to C40) petroleum group			TPH		17 mg/kg		17 mg/kg	0.0017 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-469-6	83-32-9									
18	●	fluorene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-695-5	86-73-7									
19	●	phenanthrene				5.5	mg/kg		5.5	mg/kg	0.00055 %		
			201-581-5	85-01-8									
20	●	anthracene				2.7	mg/kg		2.7	mg/kg	0.00027 %		
			204-371-1	120-12-7									
21	●	fluoranthene				17	mg/kg		17	mg/kg	0.0017 %		
			205-912-4	206-44-0									
22	●	pyrene				16	mg/kg		16	mg/kg	0.0016 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				5.7	mg/kg		5.7	mg/kg	0.00057 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				5.2	mg/kg		5.2	mg/kg	0.00052 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				4.2	mg/kg		4.2	mg/kg	0.00042 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				3.7	mg/kg		3.7	mg/kg	0.00037 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				4.5	mg/kg		4.5	mg/kg	0.00045 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				2.2	mg/kg		2.2	mg/kg	0.00022 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				2.4	mg/kg		2.4	mg/kg	0.00024 %		
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0704 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH01

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH01
Sample Depth:
1 m
Moisture content:
24%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 24% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15 mg/kg	1.32	19.805 mg/kg	0.00198 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		37 mg/kg	1.46	54.078 mg/kg	0.00541 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		22 mg/kg	1.13	24.77 mg/kg	0.00248 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	45 mg/kg		45 mg/kg	0.0045 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		36 mg/kg	2.98	107.146 mg/kg	0.0107 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		92 mg/kg	2.08	191.776 mg/kg	0.0192 %		
12	TPH (C6 to C40) petroleum group			TPH		1 mg/kg		1 mg/kg	0.0001 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0462 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT5B

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT5B
Sample Depth:
0.5 m
Moisture content:
14%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		19 mg/kg	1.32	25.086 mg/kg	0.00251 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		27 mg/kg	1.46	39.462 mg/kg	0.00395 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		87 mg/kg	1.13	97.952 mg/kg	0.0098 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	1200 mg/kg		1200 mg/kg	0.12 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22 mg/kg	2.98	65.478 mg/kg	0.00655 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		310 mg/kg	2.08	646.202 mg/kg	0.0646 %		
12	TPH (C6 to C40) petroleum group			TPH		142 mg/kg		142 mg/kg	0.0142 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
15		naphthalene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-917-1	208-96-8									
17	●	acenaphthene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
			201-469-6	83-32-9									
18	●	fluorene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
			201-695-5	86-73-7									
19	●	phenanthrene				12	mg/kg		12	mg/kg	0.0012 %		
			201-581-5	85-01-8									
20	●	anthracene				3.2	mg/kg		3.2	mg/kg	0.00032 %		
			204-371-1	120-12-7									
21	●	fluoranthene				25	mg/kg		25	mg/kg	0.0025 %		
			205-912-4	206-44-0									
22	●	pyrene				24	mg/kg		24	mg/kg	0.0024 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				8.6	mg/kg		8.6	mg/kg	0.00086 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				8.3	mg/kg		8.3	mg/kg	0.00083 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				11	mg/kg		11	mg/kg	0.0011 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				5.9	mg/kg		5.9	mg/kg	0.00059 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				7.9	mg/kg		7.9	mg/kg	0.00079 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				3.9	mg/kg		3.9	mg/kg	0.00039 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				4.3	mg/kg		4.3	mg/kg	0.00043 %		
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.235 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH04[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH04[2]
Sample Depth:
1.6 m
Moisture content:
21%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 21% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		22 mg/kg	1.46	32.154 mg/kg	0.00322 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15 mg/kg	1.13	16.888 mg/kg	0.00169 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	33 mg/kg		33 mg/kg	0.0033 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		24 mg/kg	2.98	71.43 mg/kg	0.00714 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		59 mg/kg	2.08	122.987 mg/kg	0.0123 %		
12	TPH (C6 to C40) petroleum group			TPH		6 mg/kg		6 mg/kg	0.0006 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
15		naphthalene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17	●	acenaphthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-469-6	83-32-9									
18	●	fluorene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-695-5	86-73-7									
19	●	phenanthrene				2.3	mg/kg		2.3	mg/kg	0.00023 %		
			201-581-5	85-01-8									
20	●	anthracene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			204-371-1	120-12-7									
21	●	fluoranthene				2.1	mg/kg		2.1	mg/kg	0.00021 %		
			205-912-4	206-44-0									
22	●	pyrene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0325 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH07

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH07
Sample Depth:
2.1 m
Moisture content:
25%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 25% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		25 mg/kg	1.46	36.539 mg/kg	0.00365 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.13	14.637 mg/kg	0.00146 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	15 mg/kg		15 mg/kg	0.0015 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		24 mg/kg	2.98	71.43 mg/kg	0.00714 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		68 mg/kg	2.08	141.747 mg/kg	0.0142 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0315 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH07[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH07[1]
Sample Depth:
0.5 m
Moisture content:
17%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		33 mg/kg	1.46	48.231 mg/kg	0.00482 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		30 mg/kg	1.13	33.777 mg/kg	0.00338 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	64 mg/kg		64 mg/kg	0.0064 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		30 mg/kg	2.98	89.288 mg/kg	0.00893 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		120 mg/kg	2.08	250.143 mg/kg	0.025 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.052 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH03[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH03[1]
Sample Depth:
1.5 m
Moisture content:
25%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 25% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		18 mg/kg	1.32	23.766 mg/kg	0.00238 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		54 mg/kg	1.46	78.924 mg/kg	0.00789 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		79 mg/kg	1.13	88.945 mg/kg	0.00889 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	40 mg/kg		40 mg/kg	0.004 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		45 mg/kg	2.98	133.932 mg/kg	0.0134 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		120 mg/kg	2.08	250.143 mg/kg	0.025 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0636 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH38

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH38
Sample Depth:
2 m
Moisture content:
22%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8 mg/kg	1.32	10.563 mg/kg	0.00106 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		18 mg/kg	1.46	26.308 mg/kg	0.00263 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		10 mg/kg	1.13	11.259 mg/kg	0.00113 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	12 mg/kg		12 mg/kg	0.0012 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18 mg/kg	2.98	53.573 mg/kg	0.00536 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		47 mg/kg	2.08	97.972 mg/kg	0.0098 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0231 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH38[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH38[1]
Sample Depth:
8.5 m
Moisture content:
25%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 25% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	arsenic { arsenic trioxide }		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
2	boron { diboron trioxide; boric oxide }		1 mg/kg	3.22	3.22 mg/kg	0.000322 %		
	005-008-00-8 / 215-125-8 / 1303-86-2							
3	cadmium { cadmium oxide }		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
	048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]							
4	chromium in chromium(III) compounds { chromium(III) oxide }		19 mg/kg	1.46	27.77 mg/kg	0.00278 %		
	/ 215-160-9 / 1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
	024-001-00-0 / 215-607-8 / 1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }		12 mg/kg	1.13	13.511 mg/kg	0.00135 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	1	26 mg/kg		26 mg/kg	0.0026 %		
	082-001-00-6 / /							
8	mercury { mercury dichloride }		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
	080-010-00-X / 231-299-8 / 7487-94-7							
9	nickel { nickel chromate }		19 mg/kg	2.98	56.549 mg/kg	0.00565 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }		<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
	034-002-00-8 / /							
11	zinc { zinc chloride }		69 mg/kg	2.08	143.832 mg/kg	0.0144 %		
	030-003-00-2 / 231-592-0 / 7646-85-7							
12	TPH (C6 to C40) petroleum group		5 mg/kg		5 mg/kg	0.0005 %		
	/ / TPH							
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,		<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				0.03	mg/kg		0.03	mg/kg	0.000003 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0305 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH38[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH38[2]
Sample Depth:
0.5 m
Moisture content:
13%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		20 mg/kg	1.32	26.407 mg/kg	0.00264 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		16 mg/kg	1.46	23.385 mg/kg	0.00234 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		23 mg/kg	1.13	25.895 mg/kg	0.00259 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	180 mg/kg		180 mg/kg	0.018 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17 mg/kg	2.98	50.597 mg/kg	0.00506 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		110 mg/kg	2.08	229.297 mg/kg	0.0229 %		
12	TPH (C6 to C40) petroleum group			TPH		5 mg/kg		5 mg/kg	0.0005 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.6	pH		8.6	pH	8.6 pH		
				PH									
15		naphthalene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17	●	acenaphthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-469-6	83-32-9									
18	●	fluorene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-695-5	86-73-7									
19	●	phenanthrene				2.4	mg/kg		2.4	mg/kg	0.00024 %		
			201-581-5	85-01-8									
20	●	anthracene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
			204-371-1	120-12-7									
21	●	fluoranthene				3.9	mg/kg		3.9	mg/kg	0.00039 %		
			205-912-4	206-44-0									
22	●	pyrene				3.6	mg/kg		3.6	mg/kg	0.00036 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				1.3	mg/kg		1.3	mg/kg	0.00013 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
			205-883-8	191-24-2									
31		phenol				0.04	mg/kg		0.04	mg/kg	0.000004 %		
		604-001-00-2	203-632-7	108-95-2									
32	●	polychlorobiphenyls; PCB				<0.003	mg/kg		<0.003	mg/kg	<0.000000254 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
33		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				1.2	mg/kg		1.2	mg/kg	0.00012 %		
		607-317-00-9	204-211-0	117-81-7									
										Total:	0.0579 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT24

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT24
Sample Depth:
1 m
Moisture content:
16%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14 mg/kg	1.32	18.485 mg/kg	0.00185 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		21 mg/kg	1.46	30.693 mg/kg	0.00307 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		39 mg/kg	1.13	43.91 mg/kg	0.00439 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	120 mg/kg		120 mg/kg	0.012 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22 mg/kg	2.98	65.478 mg/kg	0.00655 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		71 mg/kg	2.08	148.001 mg/kg	0.0148 %		
12	TPH (C6 to C40) petroleum group			TPH		8 mg/kg		8 mg/kg	0.0008 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			201-581-5	85-01-8									
20	●	anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21	●	fluoranthene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
			205-912-4	206-44-0									
22	●	pyrene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0458 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT24[1]

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:	LoW Code:	
SCPT24[1]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.5 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
Moisture content:		
15% (no correction)		

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.163%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.163%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.163%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

R52/53 "Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinand:

benzo[a]anthracene: (conc.: 0.0041%)

Determinands

Moisture content: 15% No Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17	mg/kg	1.32	22.446	mg/kg	0.00224 %		
2		boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<**LOD**
3		cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<**LOD**
4		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		31	mg/kg	1.46	45.308	mg/kg	0.00453 %		
5		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<**LOD**
6		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		68	mg/kg	1.13	76.56	mg/kg	0.00766 %		
7		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	170	mg/kg		170	mg/kg	0.017 %		
8		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<**LOD**
9		nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		29	mg/kg	2.98	86.312	mg/kg	0.00863 %		
10		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<**LOD**
11		zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		180	mg/kg	2.08	375.214	mg/kg	0.0375 %		
12		TPH (C6 to C40) petroleum group			TPH		1626	mg/kg		1626	mg/kg	0.163 %		
13		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
14		pH			PH		8	pH		8	pH	8pH		
15		naphthalene	601-052-00-2	202-049-5	91-20-3		0.5	mg/kg		0.5	mg/kg	0.00005 %		
16		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
17		acenaphthene		201-469-6	83-32-9		2.5	mg/kg		2.5	mg/kg	0.00025 %		
18		fluorene		201-695-5	86-73-7		2.9	mg/kg		2.9	mg/kg	0.00029 %		
19		phenanthrene		201-581-5	85-01-8		47	mg/kg		47	mg/kg	0.0047 %		
20		anthracene		204-371-1	120-12-7		17	mg/kg		17	mg/kg	0.0017 %		
21		fluoranthene		205-912-4	206-44-0		80	mg/kg		80	mg/kg	0.008 %		
22		pyrene		204-927-3	129-00-0		70	mg/kg		70	mg/kg	0.007 %		
23		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		41	mg/kg		41	mg/kg	0.0041 %		
24		chrysene	601-048-00-0	205-923-4	218-01-9		39	mg/kg		39	mg/kg	0.0039 %		
25		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		36	mg/kg		36	mg/kg	0.0036 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
26		benzo[k]fluoranthene				28	mg/kg		28	mg/kg	0.0028 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				32	mg/kg		32	mg/kg	0.0032 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				15	mg/kg		15	mg/kg	0.0015 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				4.3	mg/kg		4.3	mg/kg	0.00043 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				15	mg/kg		15	mg/kg	0.0015 %		
			205-883-8	191-24-2									
31		phenol				0.16	mg/kg		0.16	mg/kg	0.000016 %		
		604-001-00-2	203-632-7	108-95-2									
32		polychlorobiphenyls; PCB				<0.008	mg/kg		<0.008	mg/kg	<0.00000075 %		**<LOD**
		602-039-00-4	215-648-1	1336-36-3									
33		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				2.4	mg/kg		2.4	mg/kg	0.00024 %		
		607-317-00-9	204-211-0	117-81-7									
34		dibutyl phthalate; DBP				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		607-318-00-4	201-557-4	84-74-2									
										Total:	0.285 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH09

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH09
Sample Depth:
1.6 m
Moisture content:
24%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 24% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		47 mg/kg	1.46	68.693 mg/kg	0.00687 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16 mg/kg	1.13	18.014 mg/kg	0.0018 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	18 mg/kg		18 mg/kg	0.0018 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27 mg/kg	2.98	80.359 mg/kg	0.00804 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		70 mg/kg	2.08	145.916 mg/kg	0.0146 %		
12	TPH (C6 to C40) petroleum group			TPH		<14.6 mg/kg		<14.6 mg/kg	<0.00146 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0	mg/kg		<0.00035	mg/kg	<0.000000035 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0379 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH45

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH45
Sample Depth:
0.6 m
Moisture content:
25%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 25% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14 mg/kg	1.32	18.485 mg/kg	0.00185 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		14 mg/kg	1.46	20.462 mg/kg	0.00205 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		94 mg/kg	1.13	105.834 mg/kg	0.0106 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	160 mg/kg		160 mg/kg	0.016 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17 mg/kg	2.98	50.597 mg/kg	0.00506 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		89 mg/kg	2.08	185.522 mg/kg	0.0186 %		
12	TPH (C6 to C40) petroleum group			TPH		2 mg/kg		2 mg/kg	0.0002 %		

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
15		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
16		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
17		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
19		pH			PH		7.7	pH		7.7	pH	7.7 pH		
20		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
21		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
22		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
23		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
24		phenanthrene		201-581-5	85-01-8		0.2	mg/kg		0.2	mg/kg	0.00002 %		
25		anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
26		fluoranthene		205-912-4	206-44-0		0.4	mg/kg		0.4	mg/kg	0.00004 %		
27		pyrene		204-927-3	129-00-0		0.3	mg/kg		0.3	mg/kg	0.00003 %		
28		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
29		chrysene	601-048-00-0	205-923-4	218-01-9		0.1	mg/kg		0.1	mg/kg	0.00001 %		
30		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
31		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
32		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
33		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
34		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
35		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
36		phenol	604-001-00-2	203-632-7	108-95-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
37		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0	mg/kg		<0.00035	mg/kg	<0.000000035 %		<**LOD**
											Total:	0.0562 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH45[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH45[1]
Sample Depth:
2.5 m
Moisture content:
23%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 23% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17 mg/kg	1.32	22.446 mg/kg	0.00224 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		26 mg/kg	1.46	38.00045 mg/kg	0.0038 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		21 mg/kg	1.13	23.644 mg/kg	0.00236 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	45 mg/kg		45 mg/kg	0.0045 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		28 mg/kg	2.98	83.335 mg/kg	0.00833 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		70 mg/kg	2.08	145.916 mg/kg	0.0146 %		
12	TPH (C6 to C40) petroleum group			TPH		1 mg/kg		1 mg/kg	0.0001 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.6	pH		7.6	pH	7.6 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0378 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH45[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH45[2]
Sample Depth:
0.3 m
Moisture content:
17%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		19	mg/kg	1.32	25.086	mg/kg	0.00251 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		13	mg/kg	1.46	19.000225	mg/kg	0.0019 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		82	mg/kg	1.13	92.323	mg/kg	0.00923 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	240	mg/kg		240	mg/kg	0.024 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19	mg/kg	2.98	56.549	mg/kg	0.00565 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		89	mg/kg	2.08	185.522	mg/kg	0.0186 %		
12	TPH (C6 to C40) petroleum group			TPH		700	mg/kg		700	mg/kg	0.07 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
15		naphthalene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			205-917-1	208-96-8									
17		acenaphthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-469-6	83-32-9									
18		fluorene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-695-5	86-73-7									
19		phenanthrene				3.9	mg/kg		3.9	mg/kg	0.00039 %		
			201-581-5	85-01-8									
20		anthracene				1.3	mg/kg		1.3	mg/kg	0.00013 %		
			204-371-1	120-12-7									
21		fluoranthene				7	mg/kg		7	mg/kg	0.0007 %		
			205-912-4	206-44-0									
22		pyrene				5.8	mg/kg		5.8	mg/kg	0.00058 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				4.6	mg/kg		4.6	mg/kg	0.00046 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				4	mg/kg		4	mg/kg	0.0004 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				3.1	mg/kg		3.1	mg/kg	0.00031 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				2	mg/kg		2	mg/kg	0.0002 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				2.6	mg/kg		2.6	mg/kg	0.00026 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				1.3	mg/kg		1.3	mg/kg	0.00013 %		
			205-883-8	191-24-2									
31		phenol				0.06	mg/kg		0.06	mg/kg	0.000006 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.137 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT27

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT27
Sample Depth:
0.5 m
Moisture content:
19%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 19% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		27 mg/kg	1.32	35.649 mg/kg	0.00356 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		39 mg/kg	1.46	57.000675 mg/kg	0.0057 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		45 mg/kg	1.13	50.665 mg/kg	0.00507 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	130 mg/kg		130 mg/kg	0.013 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		38 mg/kg	2.98	113.098 mg/kg	0.0113 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		140 mg/kg	2.08	291.833 mg/kg	0.0292 %		
12	TPH (C6 to C40) petroleum group			TPH		12 mg/kg		12 mg/kg	0.0012 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
15		naphthalene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19		phenanthrene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
			201-581-5	85-01-8									
20		anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-371-1	120-12-7									
21		fluoranthene				1.9	mg/kg		1.9	mg/kg	0.00019 %		
			205-912-4	206-44-0									
22		pyrene				1.7	mg/kg		1.7	mg/kg	0.00017 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-883-8	191-24-2									
31		phenol				0.01	mg/kg		0.01	mg/kg	0.000001 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0716 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCTP27

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCTP27
Sample Depth:
1 m
Moisture content:
24%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 24% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16 mg/kg	1.32	21.125 mg/kg	0.00211 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		35 mg/kg	1.46	51.154 mg/kg	0.00512 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		25 mg/kg	1.13	28.147 mg/kg	0.00281 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	57 mg/kg		57 mg/kg	0.0057 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		36 mg/kg	2.98	107.146 mg/kg	0.0107 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		110 mg/kg	2.08	229.297 mg/kg	0.0229 %		
12	TPH (C6 to C40) petroleum group			TPH		6 mg/kg		6 mg/kg	0.0006 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				0.015	mg/kg		0.015	mg/kg	0.0000015 %		
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				0.027	mg/kg		0.027	mg/kg	0.0000027 %		
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
			201-469-6	83-32-9									
23		fluorene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
			201-695-5	86-73-7									
24		phenanthrene				8.8	mg/kg		8.8	mg/kg	0.00088 %		
			201-581-5	85-01-8									
25		anthracene				2.9	mg/kg		2.9	mg/kg	0.00029 %		
			204-371-1	120-12-7									
26		fluoranthene				12	mg/kg		12	mg/kg	0.0012 %		
			205-912-4	206-44-0									
27		pyrene				9.4	mg/kg		9.4	mg/kg	0.00094 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				4.8	mg/kg		4.8	mg/kg	0.00048 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				4.4	mg/kg		4.4	mg/kg	0.00044 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				3.3	mg/kg		3.3	mg/kg	0.00033 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				2.6	mg/kg		2.6	mg/kg	0.00026 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				3.1	mg/kg		3.1	mg/kg	0.00031 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
			205-883-8	191-24-2									
36		phenol				0.02	mg/kg		0.02	mg/kg	0.000002 %		
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0	mg/kg		<0.00035	mg/kg	<0.000000035 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0574 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH17

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH17
Sample Depth:
0.5 m
Moisture content:
9.4%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 9.4% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		31 mg/kg	1.32	40.93 mg/kg	0.00409 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		29 mg/kg	1.46	42.385 mg/kg	0.00424 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		130 mg/kg	1.13	146.365 mg/kg	0.0146 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	1500 mg/kg		1500 mg/kg	0.15 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.35	1.353 mg/kg	0.000135 %		
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27 mg/kg	2.98	80.359 mg/kg	0.00804 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		290 mg/kg	2.08	604.511 mg/kg	0.0605 %		
12	TPH (C6 to C40) petroleum group			TPH		7 mg/kg		7 mg/kg	0.0007 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			201-581-5	85-01-8									
25		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
26		fluoranthene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
			205-912-4	206-44-0									
27		pyrene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0.001	mg/kg		<0.001	mg/kg	<0.000000102 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
38		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		607-317-00-9	204-211-0	117-81-7									
										Total:	0.244 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH17[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH17[1]
Sample Depth:
2.25 m
Moisture content:
21%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 21% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		25 mg/kg	1.46	36.539 mg/kg	0.00365 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		19 mg/kg	1.13	21.392 mg/kg	0.00214 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	57 mg/kg		57 mg/kg	0.0057 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		25 mg/kg	2.98	74.407 mg/kg	0.00744 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		72 mg/kg	2.08	150.086 mg/kg	0.015 %		
12	TPH (C6 to C40) petroleum group			TPH		<14.6 mg/kg		<14.6 mg/kg	<0.00146 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0386 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH06

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH06
Sample Depth:
1.5 m
Moisture content:
18%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 18% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		27 mg/kg	1.46	39.462 mg/kg	0.00395 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		19 mg/kg	1.13	21.392 mg/kg	0.00214 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	35 mg/kg		35 mg/kg	0.0035 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27 mg/kg	2.98	80.359 mg/kg	0.00804 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		80 mg/kg	2.08	166.762 mg/kg	0.0167 %		
12	TPH (C6 to C40) petroleum group			TPH		35 mg/kg		35 mg/kg	0.0035 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8	pH		8	pH	8pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-912-4	206-44-0									
22		pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0413 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH06[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH06[1]
Sample Depth:
2.5 m
Moisture content:
25%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 25% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		19 mg/kg	1.46	27.77 mg/kg	0.00278 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11 mg/kg	1.13	12.385 mg/kg	0.00124 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	12 mg/kg		12 mg/kg	0.0012 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19 mg/kg	2.98	56.549 mg/kg	0.00565 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		50 mg/kg	2.08	104.226 mg/kg	0.0104 %		
12	TPH (C6 to C40) petroleum group			TPH		<14.6 mg/kg		<14.6 mg/kg	<0.00146 %		<**LOD**

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
15		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
16		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
17		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
19		pH			PH		7.8	pH		7.8	pH	7.8 pH		
20		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
21		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
22		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
23		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
24		phenanthrene		201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
25		anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
26		fluoranthene		205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
27		pyrene		204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
28		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
29		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
30		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
31		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
32		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
33		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
34		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
35		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
36		phenol	604-001-00-2	203-632-7	108-95-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
37		asbestos	650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
								Total:	0.0271 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH43

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH43
Sample Depth:
0.5 m
Moisture content:
17%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		24 mg/kg	1.32	31.688 mg/kg	0.00317 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		17 mg/kg	1.46	24.846 mg/kg	0.00248 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		100 mg/kg	1.13	112.589 mg/kg	0.0113 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	300 mg/kg		300 mg/kg	0.03 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		25 mg/kg	2.98	74.407 mg/kg	0.00744 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		110 mg/kg	2.08	229.297 mg/kg	0.0229 %		
12	TPH (C6 to C40) petroleum group			TPH		14 mg/kg		14 mg/kg	0.0014 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0806 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH43[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH43[1]
Sample Depth:
1.5 m
Moisture content:
23%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 23% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		18 mg/kg	1.32	23.766 mg/kg	0.00238 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		26 mg/kg	1.46	38.00045 mg/kg	0.0038 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		78 mg/kg	1.13	87.819 mg/kg	0.00878 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	76 mg/kg		76 mg/kg	0.0076 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27 mg/kg	2.98	80.359 mg/kg	0.00804 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		110 mg/kg	2.08	229.297 mg/kg	0.0229 %		
12	TPH (C6 to C40) petroleum group			TPH		<14.6 mg/kg		<14.6 mg/kg	<0.00146 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0	mg/kg		<0.00035	mg/kg	<0.000000035 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0569 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: SCPT33

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT33
Sample Depth:
1 m
Moisture content:
20%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 20% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		31 mg/kg	1.32	40.93 mg/kg	0.00409 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		18 mg/kg	1.46	26.308 mg/kg	0.00263 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		350 mg/kg	1.13	394.061 mg/kg	0.0394 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	370 mg/kg		370 mg/kg	0.037 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.35	1.353 mg/kg	0.000135 %		
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		38 mg/kg	2.98	113.098 mg/kg	0.0113 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		180 mg/kg	2.08	375.214 mg/kg	0.0375 %		
12	TPH (C6 to C40) petroleum group			TPH		19 mg/kg		19 mg/kg	0.0019 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
15		naphthalene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19		phenanthrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.136 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH08

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH08
Sample Depth:
0.2 m
Moisture content:
9.3%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 9.3% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4 mg/kg	1.32	5.281 mg/kg	0.000528 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		16 mg/kg	1.46	23.385 mg/kg	0.00234 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11 mg/kg	1.13	12.385 mg/kg	0.00124 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	19 mg/kg		19 mg/kg	0.0019 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		15 mg/kg	2.98	44.644 mg/kg	0.00446 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		49 mg/kg	2.08	102.142 mg/kg	0.0102 %		
12	TPH (C6 to C40) petroleum group			TPH		170 mg/kg		170 mg/kg	0.017 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0396 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT07

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT07
Sample Depth:
0.2 m
Moisture content:
9.4%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 9.4% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		5 mg/kg	1.32	6.602 mg/kg	0.00066 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		10 mg/kg	1.46	14.616 mg/kg	0.00146 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		9 mg/kg	1.13	10.133 mg/kg	0.00101 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	20 mg/kg		20 mg/kg	0.002 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		9 mg/kg	2.98	26.786 mg/kg	0.00268 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		86 mg/kg	2.08	179.269 mg/kg	0.0179 %		
12	TPH (C6 to C40) petroleum group			TPH		20 mg/kg		20 mg/kg	0.002 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-912-4	206-44-0									
22		pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0296 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH06[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH06[2]
Sample Depth:
0.3 m
Moisture content:
8.2%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 8.2% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4	mg/kg	1.32	5.281	mg/kg	0.000528 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		10	mg/kg	1.46	14.616	mg/kg	0.00146 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		6	mg/kg	1.13	6.755	mg/kg	0.000676 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	17	mg/kg		17	mg/kg	0.0017 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		10	mg/kg	2.98	29.763	mg/kg	0.00298 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		55	mg/kg	2.08	114.649	mg/kg	0.0115 %		
12	TPH (C6 to C40) petroleum group			TPH		25	mg/kg		25	mg/kg	0.0025 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0.004	mg/kg		<0.004	mg/kg	<0.00000035 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0232 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT10

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT10
Sample Depth:
1 m
Moisture content:
22%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16 mg/kg	1.32	21.125 mg/kg	0.00211 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		31 mg/kg	1.46	45.308 mg/kg	0.00453 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		20 mg/kg	1.13	22.518 mg/kg	0.00225 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	32 mg/kg		32 mg/kg	0.0032 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		31 mg/kg	2.98	92.264 mg/kg	0.00923 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		91 mg/kg	2.08	189.691 mg/kg	0.019 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0423 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH42

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH42
Sample Depth:
0.2 m
Moisture content:
2.8%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 2.8% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		2 mg/kg	1.14	2.285 mg/kg	0.000228 %		
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		5 mg/kg	1.46	7.308 mg/kg	0.000731 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11 mg/kg	1.13	12.385 mg/kg	0.00124 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	21 mg/kg		21 mg/kg	0.0021 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		7 mg/kg	2.98	20.834 mg/kg	0.00208 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		150 mg/kg	2.08	312.678 mg/kg	0.0313 %		
12	TPH (C6 to C40) petroleum group			TPH		<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.7	pH		8.7	pH	8.7 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21	●	fluoranthene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			205-912-4	206-44-0									
22	●	pyrene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0417 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: SCPT29

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT29
Sample Depth:
0.5 m
Moisture content:
17%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	arsenic { arsenic trioxide }		15 mg/kg	1.32	19.805 mg/kg	0.00198 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
2	boron { diboron trioxide; boric oxide }		1 mg/kg	3.22	3.22 mg/kg	0.000322 %		
	005-008-00-8 / 215-125-8 / 1303-86-2							
3	cadmium { cadmium oxide }		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
	048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]							
4	chromium in chromium(III) compounds { chromium(III) oxide }		36 mg/kg	1.46	52.616 mg/kg	0.00526 %		
	/ 215-160-9 / 1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
	024-001-00-0 / 215-607-8 / 1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }		36 mg/kg	1.13	40.532 mg/kg	0.00405 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	1	78 mg/kg		78 mg/kg	0.0078 %		
	082-001-00-6 / /							
8	mercury { mercury dichloride }		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
	080-010-00-X / 231-299-8 / 7487-94-7							
9	nickel { nickel chromate }		29 mg/kg	2.98	86.312 mg/kg	0.00863 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }		<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
	034-002-00-8 / /							
11	zinc { zinc chloride }		140 mg/kg	2.08	291.833 mg/kg	0.0292 %		
	030-003-00-2 / 231-592-0 / 7646-85-7							
12	TPH (C6 to C40) petroleum group		25 mg/kg		25 mg/kg	0.0025 %		
	/ / TPH							
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,		<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-912-4	206-44-0									
22	●	pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0613 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH29

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH29
Sample Depth:
0.5 m
Moisture content:
13%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7.4 mg/kg	1.32	9.77 mg/kg	0.000977 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		8 mg/kg	1.46	11.692 mg/kg	0.00117 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		24 mg/kg	1.13	27.021 mg/kg	0.0027 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	65 mg/kg		65 mg/kg	0.0065 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		9 mg/kg	2.98	26.786 mg/kg	0.00268 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		56 mg/kg	2.08	116.733 mg/kg	0.0117 %		
12	TPH (C6 to C40) petroleum group			TPH		200 mg/kg		200 mg/kg	0.02 %		

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
15		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
16		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
17		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		0.031	mg/kg		0.031	mg/kg	0.0000031 %		
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
19		pH			PH		8.2	pH		8.2	pH	8.2 pH		
20		naphthalene	601-052-00-2	202-049-5	91-20-3		2.4	mg/kg		2.4	mg/kg	0.00024 %		
21		acenaphthylene		205-917-1	208-96-8		0.4	mg/kg		0.4	mg/kg	0.00004 %		
22		acenaphthene		201-469-6	83-32-9		0.6	mg/kg		0.6	mg/kg	0.00006 %		
23		fluorene		201-695-5	86-73-7		1.3	mg/kg		1.3	mg/kg	0.00013 %		
24		phenanthrene		201-581-5	85-01-8		8	mg/kg		8	mg/kg	0.0008 %		
25		anthracene		204-371-1	120-12-7		3.1	mg/kg		3.1	mg/kg	0.00031 %		
26		fluoranthene		205-912-4	206-44-0		12	mg/kg		12	mg/kg	0.0012 %		
27		pyrene		204-927-3	129-00-0		11	mg/kg		11	mg/kg	0.0011 %		
28		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		4.9	mg/kg		4.9	mg/kg	0.00049 %		
29		chrysene	601-048-00-0	205-923-4	218-01-9		5	mg/kg		5	mg/kg	0.0005 %		
30		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		3	mg/kg		3	mg/kg	0.0003 %		
31		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		3.5	mg/kg		3.5	mg/kg	0.00035 %		
32		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		2.8	mg/kg		2.8	mg/kg	0.00028 %		
33		indeno[123-cd]pyrene		205-893-2	193-39-5		1.4	mg/kg		1.4	mg/kg	0.00014 %		
34		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.4	mg/kg		0.4	mg/kg	0.00004 %		
35		benzo[ghi]perylene		205-883-8	191-24-2		1.4	mg/kg		1.4	mg/kg	0.00014 %		
36		phenol	604-001-00-2	203-632-7	108-95-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
37		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0	mg/kg		<0.00035	mg/kg	<0.000000035 %		<**LOD**
38		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP	607-317-00-9	204-211-0	117-81-7		0.2	mg/kg		0.2	mg/kg	0.00002 %		
											Total:	0.0536 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH29[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH29[1]
Sample Depth:
1.5 m
Moisture content:
14%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7	mg/kg	1.32	9.242	mg/kg	0.000924 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		13	mg/kg	1.46	19.000225	mg/kg	0.0019 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14	mg/kg	1.13	15.762	mg/kg	0.00158 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	30	mg/kg		30	mg/kg	0.003 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		14	mg/kg	2.98	41.668	mg/kg	0.00417 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		46	mg/kg	2.08	95.888	mg/kg	0.00959 %		
12	TPH (C6 to C40) petroleum group			TPH		30	mg/kg		30	mg/kg	0.003 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
15		naphthalene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-917-1	208-96-8									
17		acenaphthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-469-6	83-32-9									
18		fluorene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			201-695-5	86-73-7									
19		phenanthrene				3.2	mg/kg		3.2	mg/kg	0.00032 %		
			201-581-5	85-01-8									
20		anthracene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
			204-371-1	120-12-7									
21		fluoranthene				6.1	mg/kg		6.1	mg/kg	0.00061 %		
			205-912-4	206-44-0									
22		pyrene				5.4	mg/kg		5.4	mg/kg	0.00054 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				2.2	mg/kg		2.2	mg/kg	0.00022 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				2.3	mg/kg		2.3	mg/kg	0.00023 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				1.3	mg/kg		1.3	mg/kg	0.00013 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0286 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH05

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH05
Sample Depth:
1.5 m
Moisture content:
11%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4.7	mg/kg	1.32	6.206	mg/kg	0.000621 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		10	mg/kg	1.46	14.616	mg/kg	0.00146 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		10	mg/kg	1.13	11.259	mg/kg	0.00113 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	29	mg/kg		29	mg/kg	0.0029 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		9	mg/kg	2.98	26.786	mg/kg	0.00268 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		53	mg/kg	2.08	110.48	mg/kg	0.011 %		
12	TPH (C6 to C40) petroleum group			TPH		540	mg/kg		540	mg/kg	0.054 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				0.012	mg/kg		0.012	mg/kg	0.0000012 %		
		601-023-00-4	202-849-4	100-41-4									
17		xylene				2.42	mg/kg		2.42	mg/kg	0.000242 %		
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
20		naphthalene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
26		fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-912-4	206-44-0									
27		pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
37		1,2,4-trimethylbenzene				17	mg/kg		17	mg/kg	0.0017 %		
		601-043-00-3	202-436-9	95-63-6									
38		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		607-317-00-9	204-211-0	117-81-7									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		mesitylene; 1,3,5-trimethylbenzene				11	mg/kg		11	mg/kg	0.0011 %		
		601-025-00-5	203-604-4	108-67-8									
40		cumene; [1] propylbenzene [2]				1.15	mg/kg		1.15	mg/kg	0.000115 %		
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]									
										Total:	0.079 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH05[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH05[1]
Sample Depth:
2 m
Moisture content:
24%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 24% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	arsenic { arsenic trioxide }		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
2	boron { diboron trioxide; boric oxide }		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
	005-008-00-8 / 215-125-8 / 1303-86-2							
3	cadmium { cadmium oxide }		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
	048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]							
4	chromium in chromium(III) compounds { chromium(III) oxide }		33 mg/kg	1.46	48.231 mg/kg	0.00482 %		
	/ 215-160-9 / 1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
	024-001-00-0 / 215-607-8 / 1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }		19 mg/kg	1.13	21.392 mg/kg	0.00214 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	1	27 mg/kg		27 mg/kg	0.0027 %		
	082-001-00-6 / /							
8	mercury { mercury dichloride }		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
	080-010-00-X / 231-299-8 / 7487-94-7							
9	nickel { nickel chromate }		32 mg/kg	2.98	95.24 mg/kg	0.00952 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }		<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
	034-002-00-8 / /							
11	zinc { zinc chloride }		90 mg/kg	2.08	187.607 mg/kg	0.0188 %		
	030-003-00-2 / 231-592-0 / 7646-85-7							
12	TPH (C6 to C40) petroleum group		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	/ / TPH							
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,		<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5											
14	●	pH 	 	 PH		8.3	pH		8.3	pH	8.3 pH		
15		naphthalene 601-052-00-2	 202-049-5	 91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
16	●	acenaphthylene 	 205-917-1	 208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
17	●	acenaphthene 	 201-469-6	 83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
18	●	fluorene 	 201-695-5	 86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
19	●	phenanthrene 	 201-581-5	 85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
20	●	anthracene 	 204-371-1	 120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
21	●	fluoranthene 	 205-912-4	 206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
22	●	pyrene 	 204-927-3	 129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
23		benzo[a]anthracene 601-033-00-9	 200-280-6	 56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
24		chrysene 601-048-00-0	 205-923-4	 218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
25		benzo[b]fluoranthene 601-034-00-4	 205-911-9	 205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
26		benzo[k]fluoranthene 601-036-00-5	 205-916-6	 207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
27		benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	 200-028-5	 50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
28	●	indeno[123-cd]pyrene 	 205-893-2	 193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
29		dibenz[a,h]anthracene 601-041-00-2	 200-181-8	 53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
30	●	benzo[ghi]perylene 	 205-883-8	 191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
31		phenol 604-001-00-2	 203-632-7	 108-95-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
										Total:	0.0415 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: SCPT30

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT30
Sample Depth:
0.5 m
Moisture content:
18%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 18% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		19 mg/kg	1.32	25.086 mg/kg	0.00251 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		50 mg/kg	1.46	73.078 mg/kg	0.00731 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		66 mg/kg	1.13	74.309 mg/kg	0.00743 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	100 mg/kg		100 mg/kg	0.01 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		31 mg/kg	2.98	92.264 mg/kg	0.00923 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		170 mg/kg	2.08	354.369 mg/kg	0.0354 %		
12	TPH (C6 to C40) petroleum group			TPH		4.1 mg/kg		4.1 mg/kg	0.00041 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				0.016	mg/kg		0.016	mg/kg	0.0000016 %		
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				0.055	mg/kg		0.055	mg/kg	0.0000055 %		
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				8	pH		8	pH	8pH		
				PH									
20		naphthalene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				1	mg/kg		1	mg/kg	0.0001 %		
			205-912-4	206-44-0									
27		pyrene				1	mg/kg		1	mg/kg	0.0001 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0	mg/kg		<0.00035	mg/kg	<0.000000035 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
38		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		607-317-00-9	204-211-0	117-81-7									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
39		asbestos 650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<10 mg/kg		<10 mg/kg	<0.001 %		**<LOD**
								Total:	0.0757 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH42[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH42[1]
Sample Depth:
3 m
Moisture content:
25%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 25% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		25 mg/kg	1.46	36.539 mg/kg	0.00365 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		20 mg/kg	1.13	22.518 mg/kg	0.00225 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	40 mg/kg		40 mg/kg	0.004 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23 mg/kg	2.98	68.454 mg/kg	0.00685 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		67 mg/kg	2.08	139.663 mg/kg	0.014 %		
12	TPH (C6 to C40) petroleum group			TPH		<14.6 mg/kg		<14.6 mg/kg	<0.00146 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0355 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: SCPT23

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT23
Sample Depth:
0.5 m
Moisture content:
15%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 15% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	arsenic { arsenic trioxide }		20 mg/kg	1.32	26.407 mg/kg	0.00264 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
2	boron { diboron trioxide; boric oxide }		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
	005-008-00-8 / 215-125-8 / 1303-86-2							
3	cadmium { cadmium oxide }		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
	048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]							
4	chromium in chromium(III) compounds { chromium(III) oxide }		24 mg/kg	1.46	35.077 mg/kg	0.00351 %		
	/ 215-160-9 / 1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
	024-001-00-0 / 215-607-8 / 1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }		81 mg/kg	1.13	91.197 mg/kg	0.00912 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	1	1300 mg/kg		1300 mg/kg	0.13 %		
	082-001-00-6							
8	mercury { mercury dichloride }		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
	080-010-00-X / 231-299-8 / 7487-94-7							
9	nickel { nickel chromate }		27 mg/kg	2.98	80.359 mg/kg	0.00804 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }		<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
	034-002-00-8							
11	zinc { zinc chloride }		260 mg/kg	2.08	541.976 mg/kg	0.0542 %		
	030-003-00-2 / 231-592-0 / 7646-85-7							
12	TPH (C6 to C40) petroleum group		540 mg/kg		540 mg/kg	0.054 %		
	/ / TPH							
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,		<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
15		naphthalene				11	mg/kg		11	mg/kg	0.0011 %		
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			205-917-1	208-96-8									
17	●	acenaphthene				3.3	mg/kg		3.3	mg/kg	0.00033 %		
			201-469-6	83-32-9									
18	●	fluorene				3.2	mg/kg		3.2	mg/kg	0.00032 %		
			201-695-5	86-73-7									
19	●	phenanthrene				25	mg/kg		25	mg/kg	0.0025 %		
			201-581-5	85-01-8									
20	●	anthracene				7.1	mg/kg		7.1	mg/kg	0.00071 %		
			204-371-1	120-12-7									
21	●	fluoranthene				27	mg/kg		27	mg/kg	0.0027 %		
			205-912-4	206-44-0									
22	●	pyrene				25	mg/kg		25	mg/kg	0.0025 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				13	mg/kg		13	mg/kg	0.0013 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				7	mg/kg		7	mg/kg	0.0007 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				5.6	mg/kg		5.6	mg/kg	0.00056 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				4.6	mg/kg		4.6	mg/kg	0.00046 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				6.6	mg/kg		6.6	mg/kg	0.00066 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				3.8	mg/kg		3.8	mg/kg	0.00038 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				3.6	mg/kg		3.6	mg/kg	0.00036 %		
			205-883-8	191-24-2									
31		phenol				1.3	mg/kg		1.3	mg/kg	0.00013 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.278 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH24

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:	LoW Code:	
BH24	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.2 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
Moisture content:		
10% (no correction)		

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinands:

benzene: (conc.: 0.0000013%)
toluene: (conc.: 0.0000012%)

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.17%)
xylene: (conc.: 0.0000023%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.17%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.17%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

R52/53 "Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinand:

benzo[a]anthracene: (conc.: 0.0073%)

Determinands

Moisture content: 10% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		22	mg/kg	1.32	29.047	mg/kg	0.0029 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		25	mg/kg	1.46	36.539	mg/kg	0.00365 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		100	mg/kg	1.13	112.589	mg/kg	0.0113 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	520	mg/kg		520	mg/kg	0.052 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26	mg/kg	2.98	77.383	mg/kg	0.00774 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		290	mg/kg	2.08	604.511	mg/kg	0.0605 %		
12	TPH (C6 to C40) petroleum group			TPH		1700	mg/kg		1700	mg/kg	0.17 %		
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
14	benzene	601-020-00-8	200-753-7	71-43-2		0.013	mg/kg		0.013	mg/kg	0.0000013 %		
15	toluene	601-021-00-3	203-625-9	108-88-3		0.012	mg/kg		0.012	mg/kg	0.0000012 %		
16	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
17	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		0.023	mg/kg		0.023	mg/kg	0.0000023 %		
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
19	pH			PH		8.1	pH		8.1	pH	8.1 pH		
20	naphthalene	601-052-00-2	202-049-5	91-20-3		30	mg/kg		30	mg/kg	0.003 %		
21	acenaphthylene		205-917-1	208-96-8		4.6	mg/kg		4.6	mg/kg	0.00046 %		
22	acenaphthene		201-469-6	83-32-9		25	mg/kg		25	mg/kg	0.0025 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
23		fluorene				31	mg/kg		31	mg/kg	0.0031 %		
			201-695-5	86-73-7									
24		phenanthrene				170	mg/kg		170	mg/kg	0.017 %		
			201-581-5	85-01-8									
25		anthracene				54	mg/kg		54	mg/kg	0.0054 %		
			204-371-1	120-12-7									
26		fluoranthene				160	mg/kg		160	mg/kg	0.016 %		
			205-912-4	206-44-0									
27		pyrene				140	mg/kg		140	mg/kg	0.014 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				73	mg/kg		73	mg/kg	0.0073 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				74	mg/kg		74	mg/kg	0.0074 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				72	mg/kg		72	mg/kg	0.0072 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				68	mg/kg		68	mg/kg	0.0068 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				74	mg/kg		74	mg/kg	0.0074 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				25	mg/kg		25	mg/kg	0.0025 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				7.5	mg/kg		7.5	mg/kg	0.00075 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				25	mg/kg		25	mg/kg	0.0025 %		
			205-883-8	191-24-2									
36		phenol				2.9	mg/kg		2.9	mg/kg	0.00029 %		
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				0.017	mg/kg		0.017	mg/kg	0.00000165 %		
		602-039-00-4	215-648-1	1336-36-3									
38		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				0.9	mg/kg		0.9	mg/kg	0.00009 %		
		607-317-00-9	204-211-0	117-81-7									
39		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
40		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				1.1	mg/kg		1.1	mg/kg	0.00011 %		
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
										Total:	0.414 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH26

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH26
Sample Depth:
0.3 m
Moisture content:
19%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 19% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16 mg/kg	1.32	21.125 mg/kg	0.00211 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		15 mg/kg	1.46	21.923 mg/kg	0.00219 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		38 mg/kg	1.13	42.784 mg/kg	0.00428 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	140 mg/kg		140 mg/kg	0.014 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19 mg/kg	2.98	56.549 mg/kg	0.00565 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		69 mg/kg	2.08	143.832 mg/kg	0.0144 %		
12	TPH (C6 to C40) petroleum group			TPH		6 mg/kg		6 mg/kg	0.0006 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
15		naphthalene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				1	mg/kg		1	mg/kg	0.0001 %		
			201-581-5	85-01-8									
20	●	anthracene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			204-371-1	120-12-7									
21	●	fluoranthene				2	mg/kg		2	mg/kg	0.0002 %		
			205-912-4	206-44-0									
22	●	pyrene				1.8	mg/kg		1.8	mg/kg	0.00018 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-883-8	191-24-2									
31		phenol				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0458 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH25

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH25
Sample Depth:
0.5 m
Moisture content:
10%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 10% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15 mg/kg	1.32	19.805 mg/kg	0.00198 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		17 mg/kg	1.46	24.846 mg/kg	0.00248 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		50 mg/kg	1.13	56.294 mg/kg	0.00563 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	200 mg/kg		200 mg/kg	0.02 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19 mg/kg	2.98	56.549 mg/kg	0.00565 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		100 mg/kg	2.08	208.452 mg/kg	0.0208 %		
12	TPH (C6 to C40) petroleum group			TPH		200 mg/kg		200 mg/kg	0.02 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				8	pH		8	pH	8pH		
				PH									
20		naphthalene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-917-1	208-96-8									
22		acenaphthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			201-469-6	83-32-9									
23		fluorene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
			201-695-5	86-73-7									
24		phenanthrene				5	mg/kg		5	mg/kg	0.0005 %		
			201-581-5	85-01-8									
25		anthracene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
			204-371-1	120-12-7									
26		fluoranthene				6.4	mg/kg		6.4	mg/kg	0.00064 %		
			205-912-4	206-44-0									
27		pyrene				5.5	mg/kg		5.5	mg/kg	0.00055 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				3.8	mg/kg		3.8	mg/kg	0.00038 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				3.9	mg/kg		3.9	mg/kg	0.00039 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				3.3	mg/kg		3.3	mg/kg	0.00033 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				2	mg/kg		2	mg/kg	0.0002 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				2.9	mg/kg		2.9	mg/kg	0.00029 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				1.3	mg/kg		1.3	mg/kg	0.00013 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
			205-883-8	191-24-2									
36		phenol				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0.004	mg/kg		<0.004	mg/kg	<0.00000035 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0822 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS24

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS24
Sample Depth:
0.2 m
Moisture content:
13%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7	mg/kg	1.32	9.242	mg/kg	0.000924 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		9	mg/kg	1.46	13.154	mg/kg	0.00132 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17	mg/kg	1.13	19.14	mg/kg	0.00191 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	38	mg/kg		38	mg/kg	0.0038 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		9	mg/kg	2.98	26.786	mg/kg	0.00268 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		58	mg/kg	2.08	120.902	mg/kg	0.0121 %		
12	TPH (C6 to C40) petroleum group			TPH		21	mg/kg		21	mg/kg	0.0021 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8	pH		8	pH	8pH		
				PH									
15		naphthalene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19		phenanthrene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
			201-581-5	85-01-8									
20		anthracene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			204-371-1	120-12-7									
21		fluoranthene				2.4	mg/kg		2.4	mg/kg	0.00024 %		
			205-912-4	206-44-0									
22		pyrene				2.1	mg/kg		2.1	mg/kg	0.00021 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				1.3	mg/kg		1.3	mg/kg	0.00013 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0277 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: TP10

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
TP10
Sample Depth:
0.8 m
Moisture content:
22%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13 mg/kg	1.32	17.164 mg/kg	0.00172 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		17 mg/kg	1.46	24.846 mg/kg	0.00248 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		30 mg/kg	1.13	33.777 mg/kg	0.00338 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	62 mg/kg		62 mg/kg	0.0062 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20 mg/kg	2.98	59.525 mg/kg	0.00595 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		61 mg/kg	2.08	127.156 mg/kg	0.0127 %		
12	TPH (C6 to C40) petroleum group			TPH		6 mg/kg		6 mg/kg	0.0006 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0349 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH27

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH27
Sample Depth:
1 m
Moisture content:
22%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		16 mg/kg	1.46	23.385 mg/kg	0.00234 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11 mg/kg	1.13	12.385 mg/kg	0.00124 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	15 mg/kg		15 mg/kg	0.0015 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18 mg/kg	2.98	53.573 mg/kg	0.00536 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		48 mg/kg	2.08	100.057 mg/kg	0.01 %		
12	TPH (C6 to C40) petroleum group			TPH		7 mg/kg		7 mg/kg	0.0007 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0	mg/kg		<0.00035	mg/kg	<0.000000035 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0245 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT21B

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT21B
Sample Depth:
0.5 m
Moisture content:
8.1%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 8.1% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		38 mg/kg	1.32	50.172 mg/kg	0.00502 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		36 mg/kg	1.46	52.616 mg/kg	0.00526 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		320 mg/kg	1.13	360.284 mg/kg	0.036 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	700 mg/kg		700 mg/kg	0.07 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26 mg/kg	2.98	77.383 mg/kg	0.00774 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		340 mg/kg	2.08	708.737 mg/kg	0.0709 %		
12	TPH (C6 to C40) petroleum group			TPH		750 mg/kg		750 mg/kg	0.075 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
20		naphthalene				2.6	mg/kg		2.6	mg/kg	0.00026 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-917-1	208-96-8									
22		acenaphthene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
			201-469-6	83-32-9									
23		fluorene				1	mg/kg		1	mg/kg	0.0001 %		
			201-695-5	86-73-7									
24		phenanthrene				8.9	mg/kg		8.9	mg/kg	0.00089 %		
			201-581-5	85-01-8									
25		anthracene				2.7	mg/kg		2.7	mg/kg	0.00027 %		
			204-371-1	120-12-7									
26		fluoranthene				10	mg/kg		10	mg/kg	0.001 %		
			205-912-4	206-44-0									
27		pyrene				9.2	mg/kg		9.2	mg/kg	0.00092 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				7	mg/kg		7	mg/kg	0.0007 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				6.5	mg/kg		6.5	mg/kg	0.00065 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				4.7	mg/kg		4.7	mg/kg	0.00047 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				4.2	mg/kg		4.2	mg/kg	0.00042 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				5.1	mg/kg		5.1	mg/kg	0.00051 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				2.2	mg/kg		2.2	mg/kg	0.00022 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				2.1	mg/kg		2.1	mg/kg	0.00021 %		
			205-883-8	191-24-2									
36		phenol				0.23	mg/kg		0.23	mg/kg	0.000023 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.278 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS18

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS18
Sample Depth:
0.5 m
Moisture content:
7.8%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 7.8% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13 mg/kg	1.32	17.164 mg/kg	0.00172 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		14 mg/kg	1.46	20.462 mg/kg	0.00205 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		25 mg/kg	1.13	28.147 mg/kg	0.00281 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	52 mg/kg		52 mg/kg	0.0052 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		11 mg/kg	2.98	32.739 mg/kg	0.00327 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		55 mg/kg	2.08	114.649 mg/kg	0.0115 %		
12	TPH (C6 to C40) petroleum group			TPH		74 mg/kg		74 mg/kg	0.0074 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				0.024	mg/kg		0.024	mg/kg	0.0000024 %		
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
26		fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			205-912-4	206-44-0									
27		pyrene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0359 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS19

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS19
Sample Depth:
1 m
Moisture content:
11%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		10 mg/kg	1.46	14.616 mg/kg	0.00146 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14 mg/kg	1.13	15.762 mg/kg	0.00158 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	38 mg/kg		38 mg/kg	0.0038 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		10 mg/kg	2.98	29.763 mg/kg	0.00298 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		50 mg/kg	2.08	104.226 mg/kg	0.0104 %		
12	TPH (C6 to C40) petroleum group			TPH		30 mg/kg		30 mg/kg	0.003 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
15		naphthalene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17	●	acenaphthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			201-469-6	83-32-9									
18	●	fluorene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			201-695-5	86-73-7									
19	●	phenanthrene				2.7	mg/kg		2.7	mg/kg	0.00027 %		
			201-581-5	85-01-8									
20	●	anthracene				1	mg/kg		1	mg/kg	0.0001 %		
			204-371-1	120-12-7									
21	●	fluoranthene				3.5	mg/kg		3.5	mg/kg	0.00035 %		
			205-912-4	206-44-0									
22	●	pyrene				3.2	mg/kg		3.2	mg/kg	0.00032 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				3	mg/kg		3	mg/kg	0.0003 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				2.7	mg/kg		2.7	mg/kg	0.00027 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				2.1	mg/kg		2.1	mg/kg	0.00021 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
			205-883-8	191-24-2									
31		phenol				0.01	mg/kg		0.01	mg/kg	0.000001 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0285 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS08

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS08
Sample Depth:
0.5 m
Moisture content:
18%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 18% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		20 mg/kg	1.32	26.407 mg/kg	0.00264 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		13 mg/kg	1.46	19.000225 mg/kg	0.0019 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		56 mg/kg	1.13	63.05 mg/kg	0.0063 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	170 mg/kg		170 mg/kg	0.017 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		13 mg/kg	2.98	38.691 mg/kg	0.00387 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		56 mg/kg	2.08	116.733 mg/kg	0.0117 %		
12	TPH (C6 to C40) petroleum group			TPH		<14.6 mg/kg		<14.6 mg/kg	<0.00146 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
37		trichloroethylene; trichloroethene				0.077	mg/kg		0.077	mg/kg	0.0000077 %		
		602-027-00-9	201-167-4	79-01-6									
38		polychlorobiphenyls; PCB				<0.004	mg/kg		<0.004	mg/kg	<0.00000035 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0467 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS10

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS10
Sample Depth:
0.5 m
Moisture content:
17%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		22	mg/kg	1.32	29.047	mg/kg	0.0029 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		34	mg/kg	1.46	49.693	mg/kg	0.00497 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		66	mg/kg	1.13	74.309	mg/kg	0.00743 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	420	mg/kg		420	mg/kg	0.042 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23	mg/kg	2.98	68.454	mg/kg	0.00685 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		200	mg/kg	2.08	416.904	mg/kg	0.0417 %		
12	TPH (C6 to C40) petroleum group			TPH		110	mg/kg		110	mg/kg	0.011 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				8	pH		8	pH	8pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
			201-581-5	85-01-8									
25		anthracene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			204-371-1	120-12-7									
26		fluoranthene				3.2	mg/kg		3.2	mg/kg	0.00032 %		
			205-912-4	206-44-0									
27		pyrene				2.9	mg/kg		2.9	mg/kg	0.00029 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				1.4	mg/kg		1.4	mg/kg	0.00014 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				1	mg/kg		1	mg/kg	0.0001 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				1	mg/kg		1	mg/kg	0.0001 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			205-883-8	191-24-2									
36		phenol				0.03	mg/kg		0.03	mg/kg	0.000003 %		
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0.004	mg/kg		<0.004	mg/kg	<0.00000035 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
38		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		607-317-00-9	204-211-0	117-81-7									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		dibutyl phthalate; DBP				0.9	mg/kg		0.9	mg/kg	0.00009 %		
		607-318-00-4	201-557-4	84-74-2									
40		asbestos				130	mg/kg		130	mg/kg	0.013 %		
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.133 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS11

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS11
Sample Depth:
0.5 m
Moisture content:
19%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 19% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		23 mg/kg	1.46	33.616 mg/kg	0.00336 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		25 mg/kg	1.13	28.147 mg/kg	0.00281 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	55 mg/kg		55 mg/kg	0.0055 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		24 mg/kg	2.98	71.43 mg/kg	0.00714 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		80 mg/kg	2.08	166.762 mg/kg	0.0167 %		
12	TPH (C6 to C40) petroleum group			TPH		6 mg/kg		6 mg/kg	0.0006 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-912-4	206-44-0									
27		pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0	mg/kg		<0.00035	mg/kg	<0.000000035 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0394 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS06

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS06
Sample Depth:
0.5 m
Moisture content:
18%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 18% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		22	mg/kg	1.32	29.047	mg/kg	0.0029 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		14	mg/kg	1.46	20.462	mg/kg	0.00205 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		51	mg/kg	1.13	57.42	mg/kg	0.00574 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	250	mg/kg		250	mg/kg	0.025 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		16	mg/kg	2.98	47.62	mg/kg	0.00476 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		87	mg/kg	2.08	181.353	mg/kg	0.0181 %		
12	TPH (C6 to C40) petroleum group			TPH		51	mg/kg		51	mg/kg	0.0051 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
26		fluoranthene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			205-912-4	206-44-0									
27		pyrene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0658 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT13

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT13
Sample Depth:
0.5 m
Moisture content:
6.2%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 6.2% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		25 mg/kg	1.32	33.008 mg/kg	0.0033 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		22 mg/kg	1.46	32.154 mg/kg	0.00322 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		120 mg/kg	1.13	135.107 mg/kg	0.0135 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	490 mg/kg		490 mg/kg	0.049 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27 mg/kg	2.98	80.359 mg/kg	0.00804 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		250 mg/kg	2.08	521.13 mg/kg	0.0521 %		
12	TPH (C6 to C40) petroleum group			TPH		939 mg/kg		939 mg/kg	0.0939 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
15		naphthalene				2.2	mg/kg		2.2	mg/kg	0.00022 %		
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-917-1	208-96-8									
17	●	acenaphthene				2.1	mg/kg		2.1	mg/kg	0.00021 %		
			201-469-6	83-32-9									
18	●	fluorene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
			201-695-5	86-73-7									
19	●	phenanthrene				24	mg/kg		24	mg/kg	0.0024 %		
			201-581-5	85-01-8									
20	●	anthracene				7.5	mg/kg		7.5	mg/kg	0.00075 %		
			204-371-1	120-12-7									
21	●	fluoranthene				34	mg/kg		34	mg/kg	0.0034 %		
			205-912-4	206-44-0									
22	●	pyrene				29	mg/kg		29	mg/kg	0.0029 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				15	mg/kg		15	mg/kg	0.0015 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				12	mg/kg		12	mg/kg	0.0012 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				12	mg/kg		12	mg/kg	0.0012 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				8.5	mg/kg		8.5	mg/kg	0.00085 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				8.3	mg/kg		8.3	mg/kg	0.00083 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				4	mg/kg		4	mg/kg	0.0004 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				1	mg/kg		1	mg/kg	0.0001 %		
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				3.1	mg/kg		3.1	mg/kg	0.00031 %		
			205-883-8	191-24-2									
31		phenol				0.09	mg/kg		0.09	mg/kg	0.000009 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.241 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT19

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT19
Sample Depth:
0.5 m
Moisture content:
11%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17 mg/kg	1.32	22.446 mg/kg	0.00224 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		23 mg/kg	1.46	33.616 mg/kg	0.00336 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		53 mg/kg	1.13	59.672 mg/kg	0.00597 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	270 mg/kg		270 mg/kg	0.027 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23 mg/kg	2.98	68.454 mg/kg	0.00685 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		150 mg/kg	2.08	312.678 mg/kg	0.0313 %		
12	TPH (C6 to C40) petroleum group			TPH		83 mg/kg		83 mg/kg	0.0083 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
20		naphthalene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-917-1	208-96-8									
22		acenaphthene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
			201-469-6	83-32-9									
23		fluorene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			201-695-5	86-73-7									
24		phenanthrene				6.7	mg/kg		6.7	mg/kg	0.00067 %		
			201-581-5	85-01-8									
25		anthracene				1.7	mg/kg		1.7	mg/kg	0.00017 %		
			204-371-1	120-12-7									
26		fluoranthene				8.2	mg/kg		8.2	mg/kg	0.00082 %		
			205-912-4	206-44-0									
27		pyrene				7	mg/kg		7	mg/kg	0.0007 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				4.8	mg/kg		4.8	mg/kg	0.00048 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				4	mg/kg		4	mg/kg	0.0004 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				3.1	mg/kg		3.1	mg/kg	0.00031 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				2.1	mg/kg		2.1	mg/kg	0.00021 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				2.8	mg/kg		2.8	mg/kg	0.00028 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
			205-883-8	191-24-2									
36		phenol				0.04	mg/kg		0.04	mg/kg	0.000004 %		
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0.003	mg/kg		<0.003	mg/kg	<0.000000325 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0912 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH24[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH24[1]
Sample Depth:
1.5 m
Moisture content:
20%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 20% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8	mg/kg	1.32	10.563	mg/kg	0.00106 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		16	mg/kg	1.46	23.385	mg/kg	0.00234 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11	mg/kg	1.13	12.385	mg/kg	0.00124 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	19	mg/kg		19	mg/kg	0.0019 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17	mg/kg	2.98	50.597	mg/kg	0.00506 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		51	mg/kg	2.08	106.311	mg/kg	0.0106 %		
12	TPH (C6 to C40) petroleum group			TPH		60	mg/kg		60	mg/kg	0.006 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-912-4	206-44-0									
22		pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0301 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS08[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS08[1]
Sample Depth:
1.2-1.6 m
Moisture content:
23%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 23% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		26	mg/kg	1.32	34.328	mg/kg	0.00343 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		26	mg/kg	1.46	38.00045	mg/kg	0.0038 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		40	mg/kg	1.13	45.036	mg/kg	0.0045 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	93	mg/kg		93	mg/kg	0.0093 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27	mg/kg	2.98	80.359	mg/kg	0.00804 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		120	mg/kg	2.08	250.143	mg/kg	0.025 %		
12	TPH (C6 to C40) petroleum group			TPH		3	mg/kg		3	mg/kg	0.0003 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				0.03	mg/kg		0.03	mg/kg	0.000003 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0563 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS12

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:
WS12
Sample Depth:
0.3 m
Moisture content:
11%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

R52/53 "Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinand:

benzo[a]anthracene: (conc.: 0.0061%)

Determinands

Moisture content: 11% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		16 mg/kg	1.46	23.385 mg/kg	0.00234 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		38 mg/kg	1.13	42.784 mg/kg	0.00428 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	110 mg/kg		110 mg/kg	0.011 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		16 mg/kg	2.98	47.62 mg/kg	0.00476 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		93	mg/kg	2.08	193.86	mg/kg	0.0194 %		
12	TPH (C6 to C40) petroleum group			TPH		960	mg/kg		960	mg/kg	0.096 %		
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
14	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
15	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
16	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
17	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
19	pH			PH		8.1	pH		8.1	pH	8.1 pH		
20	naphthalene	601-052-00-2	202-049-5	91-20-3		0.7	mg/kg		0.7	mg/kg	0.00007 %		
21	acenaphthylene		205-917-1	208-96-8		2	mg/kg		2	mg/kg	0.0002 %		
22	acenaphthene		201-469-6	83-32-9		5.2	mg/kg		5.2	mg/kg	0.00052 %		
23	fluorene		201-695-5	86-73-7		5.3	mg/kg		5.3	mg/kg	0.00053 %		
24	phenanthrene		201-581-5	85-01-8		47	mg/kg		47	mg/kg	0.0047 %		
25	anthracene		204-371-1	120-12-7		24	mg/kg		24	mg/kg	0.0024 %		
26	fluoranthene		205-912-4	206-44-0		90	mg/kg		90	mg/kg	0.009 %		
27	pyrene		204-927-3	129-00-0		83	mg/kg		83	mg/kg	0.0083 %		
28	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		61	mg/kg		61	mg/kg	0.0061 %		
29	chrysene	601-048-00-0	205-923-4	218-01-9		54	mg/kg		54	mg/kg	0.0054 %		
30	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		73	mg/kg		73	mg/kg	0.0073 %		
31	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		23	mg/kg		23	mg/kg	0.0023 %		
32	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		53	mg/kg		53	mg/kg	0.0053 %		
33	indeno[123-cd]pyrene		205-893-2	193-39-5		24	mg/kg		24	mg/kg	0.0024 %		
34	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		6.9	mg/kg		6.9	mg/kg	0.00069 %		
35	benzo[ghi]perylene		205-883-8	191-24-2		25	mg/kg		25	mg/kg	0.0025 %		
36	phenol	604-001-00-2	203-632-7	108-95-2		0.29	mg/kg		0.29	mg/kg	0.000029 %		
37	polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.004	mg/kg		<0.004	mg/kg	<0.00000043 %		<LOD

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
38		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				0.5 mg/kg		0.5 mg/kg	0.00005 %		
		607-317-00-9	204-211-0	117-81-7							
								Total:	0.199 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS12A

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:	LoW Code:	
WS12A	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.4-0.6 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
Moisture content:		
6.6% (no correction)		

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.24%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.24%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.24%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

R52/53 "Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinand:

benzo[a]anthracene: (conc.: 0.0043%)

Determinands

Moisture content: 6.6% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14	mg/kg	1.32	18.485	mg/kg	0.00185 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		21	mg/kg	1.46	30.693	mg/kg	0.00307 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		52	mg/kg	1.13	58.546	mg/kg	0.00585 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	160	mg/kg		160	mg/kg	0.016 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17	mg/kg	2.98	50.597	mg/kg	0.00506 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		140	mg/kg	2.08	291.833	mg/kg	0.0292 %		
12	TPH (C6 to C40) petroleum group			TPH		2400	mg/kg		2400	mg/kg	0.24 %		
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
14	benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
15	toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
16	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
17	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
19	pH			PH		8.2	pH		8.2	pH	8.2 pH		
20	naphthalene	601-052-00-2	202-049-5	91-20-3		3.3	mg/kg		3.3	mg/kg	0.00033 %		
21	acenaphthylene		205-917-1	208-96-8		2.5	mg/kg		2.5	mg/kg	0.00025 %		
22	acenaphthene		201-469-6	83-32-9		5.6	mg/kg		5.6	mg/kg	0.00056 %		
23	fluorene		201-695-5	86-73-7		5.8	mg/kg		5.8	mg/kg	0.00058 %		
24	phenanthrene		201-581-5	85-01-8		42	mg/kg		42	mg/kg	0.0042 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
25		anthracene				17	mg/kg		17	mg/kg	0.0017 %		
			204-371-1	120-12-7									
26		fluoranthene				68	mg/kg		68	mg/kg	0.0068 %		
			205-912-4	206-44-0									
27		pyrene				60	mg/kg		60	mg/kg	0.006 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				43	mg/kg		43	mg/kg	0.0043 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				39	mg/kg		39	mg/kg	0.0039 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				53	mg/kg		53	mg/kg	0.0053 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				26	mg/kg		26	mg/kg	0.0026 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				42	mg/kg		42	mg/kg	0.0042 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				20	mg/kg		20	mg/kg	0.002 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				5.9	mg/kg		5.9	mg/kg	0.00059 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				23	mg/kg		23	mg/kg	0.0023 %		
			205-883-8	191-24-2									
36		phenol				0.14	mg/kg		0.14	mg/kg	0.000014 %		
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0.006	mg/kg		<0.006	mg/kg	<0.00000058 %		**<LOD**
		602-039-00-4	215-648-1	1336-36-3									
38		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		607-317-00-9	204-211-0	117-81-7									
39		asbestos				160	mg/kg		160	mg/kg	0.016 %		
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.364 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH16A

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH16A
Sample Depth:
0.5 m
Moisture content:
10%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 10% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		27	mg/kg	1.32	35.649	mg/kg	0.00356 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		25	mg/kg	1.46	36.539	mg/kg	0.00365 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		88	mg/kg	1.13	99.078	mg/kg	0.00991 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	660	mg/kg		660	mg/kg	0.066 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		25	mg/kg	2.98	74.407	mg/kg	0.00744 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		210	mg/kg	2.08	437.749	mg/kg	0.0438 %		
12	TPH (C6 to C40) petroleum group			TPH		79	mg/kg		79	mg/kg	0.0079 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
20		naphthalene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			205-917-1	208-96-8									
22		acenaphthene				1	mg/kg		1	mg/kg	0.0001 %		
			201-469-6	83-32-9									
23		fluorene				1.4	mg/kg		1.4	mg/kg	0.00014 %		
			201-695-5	86-73-7									
24		phenanthrene				9	mg/kg		9	mg/kg	0.0009 %		
			201-581-5	85-01-8									
25		anthracene				3.2	mg/kg		3.2	mg/kg	0.00032 %		
			204-371-1	120-12-7									
26		fluoranthene				11	mg/kg		11	mg/kg	0.0011 %		
			205-912-4	206-44-0									
27		pyrene				9.2	mg/kg		9.2	mg/kg	0.00092 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				6.4	mg/kg		6.4	mg/kg	0.00064 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				6.1	mg/kg		6.1	mg/kg	0.00061 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				7	mg/kg		7	mg/kg	0.0007 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				3.7	mg/kg		3.7	mg/kg	0.00037 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				5.7	mg/kg		5.7	mg/kg	0.00057 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				2.8	mg/kg		2.8	mg/kg	0.00028 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				2.9	mg/kg		2.9	mg/kg	0.00029 %		
			205-883-8	191-24-2									
36		phenol				0.06	mg/kg		0.06	mg/kg	0.000006 %		
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0.001	mg/kg		<0.00091	mg/kg	<0.000000091 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
38		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				2.2	mg/kg		2.2	mg/kg	0.00022 %		
		607-317-00-9	204-211-0	117-81-7									
										Total:	0.151 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH16A[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH16A[1]
Sample Depth:
1.5 m
Moisture content:
12%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 12% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14 mg/kg	1.32	18.485 mg/kg	0.00185 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		16 mg/kg	1.46	23.385 mg/kg	0.00234 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.13	14.637 mg/kg	0.00146 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	47 mg/kg		47 mg/kg	0.0047 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		11 mg/kg	2.98	32.739 mg/kg	0.00327 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		40 mg/kg	2.08	83.381 mg/kg	0.00834 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19	●	phenanthrene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21	●	fluoranthene				1	mg/kg		1	mg/kg	0.0001 %		
			205-912-4	206-44-0									
22	●	pyrene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0243 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS10[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS10[1]
Sample Depth:
1.3-1.6 m
Moisture content:
20%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 20% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		25 mg/kg	1.32	33.008 mg/kg	0.0033 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		34 mg/kg	1.46	49.693 mg/kg	0.00497 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		53 mg/kg	1.13	59.672 mg/kg	0.00597 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	250 mg/kg		250 mg/kg	0.025 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		28 mg/kg	2.98	83.335 mg/kg	0.00833 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		120 mg/kg	2.08	250.143 mg/kg	0.025 %		
12	TPH (C6 to C40) petroleum group			TPH		470 mg/kg		470 mg/kg	0.047 %		

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
15		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
16		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
17		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
19		pH			PH		8	pH		8	pH	8pH		
20		naphthalene	601-052-00-2	202-049-5	91-20-3		1	mg/kg		1	mg/kg	0.0001 %		
21		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
22		acenaphthene		201-469-6	83-32-9		0.9	mg/kg		0.9	mg/kg	0.00009 %		
23		fluorene		201-695-5	86-73-7		0.8	mg/kg		0.8	mg/kg	0.00008 %		
24		phenanthrene		201-581-5	85-01-8		6.9	mg/kg		6.9	mg/kg	0.00069 %		
25		anthracene		204-371-1	120-12-7		1.7	mg/kg		1.7	mg/kg	0.00017 %		
26		fluoranthene		205-912-4	206-44-0		12	mg/kg		12	mg/kg	0.0012 %		
27		pyrene		204-927-3	129-00-0		9.8	mg/kg		9.8	mg/kg	0.00098 %		
28		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		3.9	mg/kg		3.9	mg/kg	0.00039 %		
29		chrysene	601-048-00-0	205-923-4	218-01-9		3.4	mg/kg		3.4	mg/kg	0.00034 %		
30		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		3.4	mg/kg		3.4	mg/kg	0.00034 %		
31		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		3	mg/kg		3	mg/kg	0.0003 %		
32		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		3	mg/kg		3	mg/kg	0.0003 %		
33		indeno[123-cd]pyrene		205-893-2	193-39-5		1.3	mg/kg		1.3	mg/kg	0.00013 %		
34		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.5	mg/kg		0.5	mg/kg	0.00005 %		
35		benzo[ghi]perylene		205-883-8	191-24-2		1.3	mg/kg		1.3	mg/kg	0.00013 %		
36		phenol	604-001-00-2	203-632-7	108-95-2		0.04	mg/kg		0.04	mg/kg	0.000004 %		
37		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.001	mg/kg		<0.0007	mg/kg	<0.00000007 %		<LOD
											Total:	0.127 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT21

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT21
Sample Depth:
0.5 m
Moisture content:
18%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 18% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17 mg/kg	1.32	22.446 mg/kg	0.00224 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		35 mg/kg	1.46	51.154 mg/kg	0.00512 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		26 mg/kg	1.13	29.273 mg/kg	0.00293 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	78 mg/kg		78 mg/kg	0.0078 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		34 mg/kg	2.98	101.193 mg/kg	0.0101 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		120 mg/kg	2.08	250.143 mg/kg	0.025 %		
12	TPH (C6 to C40) petroleum group			TPH		<14.6 mg/kg		<14.6 mg/kg	<0.00146 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
26		fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-912-4	206-44-0									
27		pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
36		phenol				0.01	mg/kg		0.01	mg/kg	0.000001 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0566 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH25[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH25[1]
Sample Depth:
1.5 m
Moisture content:
21%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 21% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		15 mg/kg	1.46	21.923 mg/kg	0.00219 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		9 mg/kg	1.13	10.133 mg/kg	0.00101 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	11 mg/kg		11 mg/kg	0.0011 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		14 mg/kg	2.98	41.668 mg/kg	0.00417 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		40 mg/kg	2.08	83.381 mg/kg	0.00834 %		
12	TPH (C6 to C40) petroleum group			TPH		12 mg/kg		12 mg/kg	0.0012 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.4	pH		7.4	pH	7.4 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
			201-581-5	85-01-8									
20	●	anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-371-1	120-12-7									
21	●	fluoranthene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
			205-912-4	206-44-0									
22	●	pyrene				1	mg/kg		1	mg/kg	0.0001 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				0.01	mg/kg		0.01	mg/kg	0.000001 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0215 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH18

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH18
Sample Depth:
0.3 m
Moisture content:
6.3%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 6.3% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		21 mg/kg	1.32	27.727 mg/kg	0.00277 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		21 mg/kg	1.46	30.693 mg/kg	0.00307 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		52 mg/kg	1.13	58.546 mg/kg	0.00585 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	780 mg/kg		780 mg/kg	0.078 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18 mg/kg	2.98	53.573 mg/kg	0.00536 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		200 mg/kg	2.08	416.904 mg/kg	0.0417 %		
12	TPH (C6 to C40) petroleum group			TPH		150 mg/kg		150 mg/kg	0.015 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				0.022	mg/kg		0.022	mg/kg	0.0000022 %		
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				0.084	mg/kg		0.084	mg/kg	0.0000084 %		
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
20		naphthalene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-917-1	208-96-8									
22		acenaphthene				1.7	mg/kg		1.7	mg/kg	0.00017 %		
			201-469-6	83-32-9									
23		fluorene				1.4	mg/kg		1.4	mg/kg	0.00014 %		
			201-695-5	86-73-7									
24		phenanthrene				14	mg/kg		14	mg/kg	0.0014 %		
			201-581-5	85-01-8									
25		anthracene				5.1	mg/kg		5.1	mg/kg	0.00051 %		
			204-371-1	120-12-7									
26		fluoranthene				14	mg/kg		14	mg/kg	0.0014 %		
			205-912-4	206-44-0									
27		pyrene				11	mg/kg		11	mg/kg	0.0011 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				10	mg/kg		10	mg/kg	0.001 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				8.2	mg/kg		8.2	mg/kg	0.00082 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				11	mg/kg		11	mg/kg	0.0011 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				5.9	mg/kg		5.9	mg/kg	0.00059 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				8.4	mg/kg		8.4	mg/kg	0.00084 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				4.1	mg/kg		4.1	mg/kg	0.00041 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				1.4	mg/kg		1.4	mg/kg	0.00014 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				3.9	mg/kg		3.9	mg/kg	0.00039 %		
			205-883-8	191-24-2									
36		phenol				0.17	mg/kg		0.17	mg/kg	0.000017 %		
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0.004	mg/kg		<0.004	mg/kg	<0.00000035 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.164 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT14

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT14
Sample Depth:
0.5 m
Moisture content:
9.2%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 9.2% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	arsenic { arsenic trioxide }		19 mg/kg	1.32	25.086 mg/kg	0.00251 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
2	boron { diboron trioxide; boric oxide }		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
	005-008-00-8 / 215-125-8 / 1303-86-2							
3	cadmium { cadmium oxide }		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
	048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]							
4	chromium in chromium(III) compounds { chromium(III) oxide }		21 mg/kg	1.46	30.693 mg/kg	0.00307 %		
	/ 215-160-9 / 1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
	024-001-00-0 / 215-607-8 / 1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }		65 mg/kg	1.13	73.183 mg/kg	0.00732 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	1	760 mg/kg		760 mg/kg	0.076 %		
	082-001-00-6 / /							
8	mercury { mercury dichloride }		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
	080-010-00-X / 231-299-8 / 7487-94-7							
9	nickel { nickel chromate }		18 mg/kg	2.98	53.573 mg/kg	0.00536 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }		<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
	034-002-00-8 / /							
11	zinc { zinc chloride }		210 mg/kg	2.08	437.749 mg/kg	0.0438 %		
	030-003-00-2 / 231-592-0 / 7646-85-7							
12	TPH (C6 to C40) petroleum group		148 mg/kg		148 mg/kg	0.0148 %		
	/ / TPH							
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,		<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
15		naphthalene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17		acenaphthene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			201-469-6	83-32-9									
18		fluorene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			201-695-5	86-73-7									
19		phenanthrene				3.5	mg/kg		3.5	mg/kg	0.00035 %		
			201-581-5	85-01-8									
20		anthracene				1	mg/kg		1	mg/kg	0.0001 %		
			204-371-1	120-12-7									
21		fluoranthene				19	mg/kg		19	mg/kg	0.0019 %		
			205-912-4	206-44-0									
22		pyrene				25	mg/kg		25	mg/kg	0.0025 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				5.5	mg/kg		5.5	mg/kg	0.00055 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				6.1	mg/kg		6.1	mg/kg	0.00061 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				9.9	mg/kg		9.9	mg/kg	0.00099 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				10	mg/kg		10	mg/kg	0.001 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				8.9	mg/kg		8.9	mg/kg	0.00089 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				4.4	mg/kg		4.4	mg/kg	0.00044 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				5.2	mg/kg		5.2	mg/kg	0.00052 %		
			205-883-8	191-24-2									
31		phenol				0.25	mg/kg		0.25	mg/kg	0.000025 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.165 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH30

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH30
Sample Depth:
1 m
Moisture content:
17%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% No Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12	mg/kg	1.32	15.844	mg/kg	0.00158 %		
2		boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3		cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		22	mg/kg	1.46	32.154	mg/kg	0.00322 %		
5		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18	mg/kg	1.13	20.266	mg/kg	0.00203 %		
7		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	38	mg/kg		38	mg/kg	0.0038 %		
8		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9		nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22	mg/kg	2.98	65.478	mg/kg	0.00655 %		
10		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11		zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		60	mg/kg	2.08	125.071	mg/kg	0.0125 %		
12		TPH (C6 to C40) petroleum group			TPH		12	mg/kg		12	mg/kg	0.0012 %		
13		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8	pH		8	pH	8pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0328 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT28

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT28
Sample Depth:
0.5 m
Moisture content:
7.5%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 7.5% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	arsenic { arsenic trioxide }		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
2	boron { diboron trioxide; boric oxide }		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
	005-008-00-8 / 215-125-8 / 1303-86-2							
3	cadmium { cadmium oxide }		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
	048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]							
4	chromium in chromium(III) compounds { chromium(III) oxide }		27 mg/kg	1.46	39.462 mg/kg	0.00395 %		
	/ 215-160-9 / 1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
	024-001-00-0 / 215-607-8 / 1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }		37 mg/kg	1.13	41.658 mg/kg	0.00417 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	1	96 mg/kg		96 mg/kg	0.0096 %		
	082-001-00-6 / /							
8	mercury { mercury dichloride }		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
	080-010-00-X / 231-299-8 / 7487-94-7							
9	nickel { nickel chromate }		21 mg/kg	2.98	62.502 mg/kg	0.00625 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }		<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
	034-002-00-8 / /							
11	zinc { zinc chloride }		210 mg/kg	2.08	437.749 mg/kg	0.0438 %		
	030-003-00-2 / 231-592-0 / 7646-85-7							
12	TPH (C6 to C40) petroleum group		6 mg/kg		6 mg/kg	0.0006 %		
	/ / TPH							
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,		<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8	pH		8	pH	8pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-912-4	206-44-0									
22		pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
32		asbestos				220	mg/kg		220	mg/kg	0.022 %		
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.0935 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT22

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT22
Sample Depth:
0.3 m
Moisture content:
12%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 12% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		29 mg/kg	1.32	38.289 mg/kg	0.00383 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		23 mg/kg	1.46	33.616 mg/kg	0.00336 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		52 mg/kg	1.13	58.546 mg/kg	0.00585 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	220 mg/kg		220 mg/kg	0.022 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.35	1.353 mg/kg	0.000135 %		
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		24 mg/kg	2.98	71.43 mg/kg	0.00714 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		98 mg/kg	2.08	204.283 mg/kg	0.0204 %		
12	TPH (C6 to C40) petroleum group			TPH		4 mg/kg		4 mg/kg	0.0004 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
			205-912-4	206-44-0									
22		pyrene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0652 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: TP05A

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
TP05A
Sample Depth:
1.3-1.9 m
Moisture content:
17%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15 mg/kg	1.32	19.805 mg/kg	0.00198 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		30 mg/kg	1.46	43.847 mg/kg	0.00438 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		27 mg/kg	1.13	30.399 mg/kg	0.00304 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	56 mg/kg		56 mg/kg	0.0056 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		25 mg/kg	2.98	74.407 mg/kg	0.00744 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		110 mg/kg	2.08	229.297 mg/kg	0.0229 %		
12	TPH (C6 to C40) petroleum group			TPH		3 mg/kg		3 mg/kg	0.0003 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.4	pH		7.4	pH	7.4 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0476 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: TP05

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
TP05
Sample Depth:
0.5-0.6 m
Moisture content:
14%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14	mg/kg	1.32	18.485	mg/kg	0.00185 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		38	mg/kg	1.46	55.539	mg/kg	0.00555 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		43	mg/kg	1.13	48.413	mg/kg	0.00484 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	55	mg/kg		55	mg/kg	0.0055 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		32	mg/kg	2.98	95.24	mg/kg	0.00952 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		100	mg/kg	2.08	208.452	mg/kg	0.0208 %		
12	TPH (C6 to C40) petroleum group			TPH		11	mg/kg		11	mg/kg	0.0011 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				0.023	mg/kg		0.023	mg/kg	0.0000023 %		
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-912-4	206-44-0									
27		pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0	mg/kg		<0.00035	mg/kg	<0.000000035 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
38		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		607-317-00-9	204-211-0	117-81-7									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
39		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]									
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]		0.4 mg/kg		0.4 mg/kg	0.00004 %		
								Total:	0.0512 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: TP04

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
TP04
Sample Depth:
0.5-0.7 m
Moisture content:
6.8%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 6.8% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		24 mg/kg	1.32	31.688 mg/kg	0.00317 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		33 mg/kg	1.46	48.231 mg/kg	0.00482 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		140 mg/kg	1.13	157.624 mg/kg	0.0158 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	410 mg/kg		410 mg/kg	0.041 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		47 mg/kg	2.98	139.884 mg/kg	0.014 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		330 mg/kg	2.08	687.892 mg/kg	0.0688 %		
12	TPH (C6 to C40) petroleum group			TPH		210 mg/kg		210 mg/kg	0.021 %		

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
15		toluene	601-021-00-3	203-625-9	108-88-3		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
16		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
17		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		0.061	mg/kg		0.061	mg/kg	0.0000061 %		
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
19		pH			PH		8.2	pH		8.2	pH	8.2 pH		
20		naphthalene	601-052-00-2	202-049-5	91-20-3		0.4	mg/kg		0.4	mg/kg	0.00004 %		
21		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
22		acenaphthene		201-469-6	83-32-9		0.2	mg/kg		0.2	mg/kg	0.00002 %		
23		fluorene		201-695-5	86-73-7		0.2	mg/kg		0.2	mg/kg	0.00002 %		
24		phenanthrene		201-581-5	85-01-8		2.3	mg/kg		2.3	mg/kg	0.00023 %		
25		anthracene		204-371-1	120-12-7		0.7	mg/kg		0.7	mg/kg	0.00007 %		
26		fluoranthene		205-912-4	206-44-0		3.5	mg/kg		3.5	mg/kg	0.00035 %		
27		pyrene		204-927-3	129-00-0		3	mg/kg		3	mg/kg	0.0003 %		
28		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.5	mg/kg		1.5	mg/kg	0.00015 %		
29		chrysene	601-048-00-0	205-923-4	218-01-9		1.5	mg/kg		1.5	mg/kg	0.00015 %		
30		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		1	mg/kg		1	mg/kg	0.0001 %		
31		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.9	mg/kg		0.9	mg/kg	0.00009 %		
32		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		1.1	mg/kg		1.1	mg/kg	0.00011 %		
33		indeno[123-cd]pyrene		205-893-2	193-39-5		0.5	mg/kg		0.5	mg/kg	0.00005 %		
34		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
35		benzo[ghi]perylene		205-883-8	191-24-2		0.6	mg/kg		0.6	mg/kg	0.00006 %		
36		phenol	604-001-00-2	203-632-7	108-95-2		0.11	mg/kg		0.11	mg/kg	0.000011 %		
37		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		0.008	mg/kg		0.008	mg/kg	0.000000763 %		
38		4-chloroaniline	612-137-00-9	203-401-0	106-47-8		0.4	mg/kg		0.4	mg/kg	0.00004 %		

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
39		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]									
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]		1.6 mg/kg		1.6 mg/kg	0.00016 %		
								Total:	0.172 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: TP04[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
TP04[1]
Sample Depth:
0.9-1.0 m
Moisture content:
13%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		27 mg/kg	1.32	35.649 mg/kg	0.00356 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		29 mg/kg	1.46	42.385 mg/kg	0.00424 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		84 mg/kg	1.13	94.575 mg/kg	0.00946 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	350 mg/kg		350 mg/kg	0.035 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		29 mg/kg	2.98	86.312 mg/kg	0.00863 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		180 mg/kg	2.08	375.214 mg/kg	0.0375 %		
								Total:	0.0999 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP04[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
TP04[2]
Sample Depth:
1.1-1.5 m
Moisture content:
15%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 15% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13	mg/kg	1.32	17.164	mg/kg	0.00172 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		31	mg/kg	1.46	45.308	mg/kg	0.00453 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		24	mg/kg	1.13	27.021	mg/kg	0.0027 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	47	mg/kg		47	mg/kg	0.0047 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		29	mg/kg	2.98	86.312	mg/kg	0.00863 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		110	mg/kg	2.08	229.297	mg/kg	0.0229 %		
12	TPH (C6 to C40) petroleum group			TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8	pH		8	pH	8pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0472 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS09

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:
WS09
Sample Depth:
0.5-0.9 m
Moisture content:
13%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

R50/53 "Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinands:

dicopper oxide; copper (I) oxide: (compound conc.: 0.169%)
lead compounds with the exception of those specified elsewhere in this Annex: (Note 1 conc.: 0.14%)

Determinands

Moisture content: 13% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		67	mg/kg	1.32	88.462	mg/kg	0.00885 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		16	mg/kg	1.46	23.385	mg/kg	0.00234 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		1500	mg/kg	1.13	1688.832	mg/kg	0.169 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	1400	mg/kg		1400	mg/kg	0.14 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1	mg/kg	1.35	1.353	mg/kg	0.000135 %		
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21	mg/kg	2.98	62.502	mg/kg	0.00625 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
10		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
		034-002-00-8											
11		zinc { zinc chloride }				370	mg/kg	2.08	771.273	mg/kg	0.0771 %		
		030-003-00-2	231-592-0	7646-85-7									
12		TPH (C6 to C40) petroleum group				14	mg/kg		14	mg/kg	0.0014 %		
				TPH									
13		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
14		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.407 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS18[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS18[1]
Sample Depth:
2.1-2.9 m
Moisture content:
16%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16 mg/kg	1.32	21.125 mg/kg	0.00211 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		22 mg/kg	1.46	32.154 mg/kg	0.00322 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		73 mg/kg	1.13	82.19 mg/kg	0.00822 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	370 mg/kg		370 mg/kg	0.037 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21 mg/kg	2.98	62.502 mg/kg	0.00625 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		100 mg/kg	2.08	208.452 mg/kg	0.0208 %		
12	TPH (C6 to C40) petroleum group			TPH		330 mg/kg		330 mg/kg	0.033 %		

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X / 216-653-1 / 1634-04-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
14		benzene 601-020-00-8 / 200-753-7 / 71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
15		toluene 601-021-00-3 / 203-625-9 / 108-88-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
16		ethylbenzene 601-023-00-4 / 202-849-4 / 100-41-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<**LOD**
17		xylene 601-022-00-9 / 202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4] / 95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<**LOD**
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5		<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**
19		pH PH		8.5 pH		8.5 pH	8.5 pH		
20		naphthalene 601-052-00-2 / 202-049-5 / 91-20-3		0.8 mg/kg		0.8 mg/kg	0.00008 %		
21		acenaphthylene 205-917-1 / 208-96-8		0.3 mg/kg		0.3 mg/kg	0.00003 %		
22		acenaphthene 201-469-6 / 83-32-9		3.7 mg/kg		3.7 mg/kg	0.00037 %		
23		fluorene 201-695-5 / 86-73-7		3.5 mg/kg		3.5 mg/kg	0.00035 %		
24		phenanthrene 201-581-5 / 85-01-8		32 mg/kg		32 mg/kg	0.0032 %		
25		anthracene 204-371-1 / 120-12-7		11 mg/kg		11 mg/kg	0.0011 %		
26		fluoranthene 205-912-4 / 206-44-0		44 mg/kg		44 mg/kg	0.0044 %		
27		pyrene 204-927-3 / 129-00-0		36 mg/kg		36 mg/kg	0.0036 %		
28		benzo[a]anthracene 601-033-00-9 / 200-280-6 / 56-55-3		14 mg/kg		14 mg/kg	0.0014 %		
29		chrysene 601-048-00-0 / 205-923-4 / 218-01-9		15 mg/kg		15 mg/kg	0.0015 %		
30		benzo[b]fluoranthene 601-034-00-4 / 205-911-9 / 205-99-2		9.1 mg/kg		9.1 mg/kg	0.00091 %		
31		benzo[k]fluoranthene 601-036-00-5 / 205-916-6 / 207-08-9		10 mg/kg		10 mg/kg	0.001 %		
32		benzo[a]pyrene; benzo[def]chrysene 601-032-00-3 / 200-028-5 / 50-32-8		9.8 mg/kg		9.8 mg/kg	0.00098 %		
33		indeno[123-cd]pyrene 205-893-2 / 193-39-5		4.2 mg/kg		4.2 mg/kg	0.00042 %		
34		dibenz[a,h]anthracene 601-041-00-2 / 200-181-8 / 53-70-3		1.2 mg/kg		1.2 mg/kg	0.00012 %		
35		benzo[ghi]perylene 205-883-8 / 191-24-2		4.6 mg/kg		4.6 mg/kg	0.00046 %		
36		phenol 604-001-00-2 / 203-632-7 / 108-95-2		0.09 mg/kg		0.09 mg/kg	0.000009 %		
						Total:	0.132 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS19[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS19[1]
Sample Depth:
1.2-1.8 m
Moisture content:
15%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 15% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12	mg/kg	1.32	15.844	mg/kg	0.00158 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		18	mg/kg	1.46	26.308	mg/kg	0.00263 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		19	mg/kg	1.13	21.392	mg/kg	0.00214 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	28	mg/kg		28	mg/kg	0.0028 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20	mg/kg	2.98	59.525	mg/kg	0.00595 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		59	mg/kg	2.08	122.987	mg/kg	0.0123 %		
12	TPH (C6 to C40) petroleum group			TPH		56	mg/kg		56	mg/kg	0.0056 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				1	mg/kg		1	mg/kg	0.0001 %		
			201-581-5	85-01-8									
20		anthracene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			204-371-1	120-12-7									
21		fluoranthene				2.4	mg/kg		2.4	mg/kg	0.00024 %		
			205-912-4	206-44-0									
22		pyrene				2.2	mg/kg		2.2	mg/kg	0.00022 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0358 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS19[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS19[2]
Sample Depth:
3.6-5.0 m
Moisture content:
26%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 26% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		26	mg/kg	1.32	34.328	mg/kg	0.00343 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1	mg/kg	3.22	3.22	mg/kg	0.000322 %		
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		44	mg/kg	1.46	64.308	mg/kg	0.00643 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		57	mg/kg	1.13	64.176	mg/kg	0.00642 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	320	mg/kg		320	mg/kg	0.032 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		33	mg/kg	2.98	98.217	mg/kg	0.00982 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		250	mg/kg	2.08	521.13	mg/kg	0.0521 %		
12	TPH (C6 to C40) petroleum group			TPH		420	mg/kg		420	mg/kg	0.042 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
20		naphthalene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				1.9	mg/kg		1.9	mg/kg	0.00019 %		
			201-469-6	83-32-9									
23		fluorene				1.7	mg/kg		1.7	mg/kg	0.00017 %		
			201-695-5	86-73-7									
24		phenanthrene				7.6	mg/kg		7.6	mg/kg	0.00076 %		
			201-581-5	85-01-8									
25		anthracene				2.4	mg/kg		2.4	mg/kg	0.00024 %		
			204-371-1	120-12-7									
26		fluoranthene				9.1	mg/kg		9.1	mg/kg	0.00091 %		
			205-912-4	206-44-0									
27		pyrene				7.7	mg/kg		7.7	mg/kg	0.00077 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				2.4	mg/kg		2.4	mg/kg	0.00024 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				2.6	mg/kg		2.6	mg/kg	0.00026 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				1.7	mg/kg		1.7	mg/kg	0.00017 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				1.8	mg/kg		1.8	mg/kg	0.00018 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				1.7	mg/kg		1.7	mg/kg	0.00017 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				1	mg/kg		1	mg/kg	0.0001 %		
			205-883-8	191-24-2									
36		phenol				0.05	mg/kg		0.05	mg/kg	0.000005 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.158 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS01

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS01
Sample Depth:
0.2-0.4 m
Moisture content:
9.7%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 9.7% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17 mg/kg	1.32	22.446 mg/kg	0.00224 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		26 mg/kg	1.46	38.00045 mg/kg	0.0038 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		74 mg/kg	1.13	83.316 mg/kg	0.00833 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	410 mg/kg		410 mg/kg	0.041 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23 mg/kg	2.98	68.454 mg/kg	0.00685 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		200 mg/kg	2.08	416.904 mg/kg	0.0417 %		
12	TPH (C6 to C40) petroleum group			TPH		110 mg/kg		110 mg/kg	0.011 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
20		naphthalene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-469-6	83-32-9									
23		fluorene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-695-5	86-73-7									
24		phenanthrene				1.9	mg/kg		1.9	mg/kg	0.00019 %		
			201-581-5	85-01-8									
25		anthracene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			204-371-1	120-12-7									
26		fluoranthene				3.2	mg/kg		3.2	mg/kg	0.00032 %		
			205-912-4	206-44-0									
27		pyrene				2.9	mg/kg		2.9	mg/kg	0.00029 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				1.3	mg/kg		1.3	mg/kg	0.00013 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				1.4	mg/kg		1.4	mg/kg	0.00014 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				1	mg/kg		1	mg/kg	0.0001 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			205-883-8	191-24-2									
36		phenol				0.03	mg/kg		0.03	mg/kg	0.000003 %		
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0.003	mg/kg		<0.003	mg/kg	<0.000000307 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
38		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		607-317-00-9	204-211-0	117-81-7									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		4-chloroaniline				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		612-137-00-9	203-401-0	106-47-8									
40		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				1.1	mg/kg		1.1	mg/kg	0.00011 %		
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
										Total:	0.118 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS01[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS01[1]
Sample Depth:
1.0-1.2 m
Moisture content:
6.7%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 6.7% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		25 mg/kg	1.32	33.008 mg/kg	0.0033 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		24 mg/kg	1.46	35.077 mg/kg	0.00351 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		130 mg/kg	1.13	146.365 mg/kg	0.0146 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	1100 mg/kg		1100 mg/kg	0.11 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.35	1.353 mg/kg	0.000135 %		
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20 mg/kg	2.98	59.525 mg/kg	0.00595 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		400 mg/kg	2.08	833.809 mg/kg	0.0834 %		
12	TPH (C6 to C40) petroleum group			TPH		105 mg/kg		105 mg/kg	0.0105 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
15		naphthalene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-917-1	208-96-8									
17		acenaphthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			201-469-6	83-32-9									
18		fluorene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			201-695-5	86-73-7									
19		phenanthrene				3.9	mg/kg		3.9	mg/kg	0.00039 %		
			201-581-5	85-01-8									
20		anthracene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
			204-371-1	120-12-7									
21		fluoranthene				5.7	mg/kg		5.7	mg/kg	0.00057 %		
			205-912-4	206-44-0									
22		pyrene				5.2	mg/kg		5.2	mg/kg	0.00052 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				2.7	mg/kg		2.7	mg/kg	0.00027 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				2.7	mg/kg		2.7	mg/kg	0.00027 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				2.1	mg/kg		2.1	mg/kg	0.00021 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				2.2	mg/kg		2.2	mg/kg	0.00022 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				2	mg/kg		2	mg/kg	0.0002 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				1	mg/kg		1	mg/kg	0.0001 %		
			205-883-8	191-24-2									
31		phenol				0.06	mg/kg		0.06	mg/kg	0.000006 %		
		604-001-00-2	203-632-7	108-95-2									
32		asbestos				130	mg/kg		130	mg/kg	0.013 %		
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.249 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS02

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS02
Sample Depth:
0.5-1.0 m
Moisture content:
6.7%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 6.7% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15 mg/kg	1.32	19.805 mg/kg	0.00198 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		91 mg/kg	1.46	133.002 mg/kg	0.0133 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		41 mg/kg	1.13	46.161 mg/kg	0.00462 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	310 mg/kg		310 mg/kg	0.031 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22 mg/kg	2.98	65.478 mg/kg	0.00655 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		150 mg/kg	2.08	312.678 mg/kg	0.0313 %		
12	TPH (C6 to C40) petroleum group			TPH		88 mg/kg		88 mg/kg	0.0088 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			205-912-4	206-44-0									
22		pyrene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0996 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT14 TRENCH

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT14 TRENCH
Sample Depth:
0.4 m
Moisture content:
4.3%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 4.3% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		68 mg/kg	1.46	99.386 mg/kg	0.00994 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		29 mg/kg	1.13	32.651 mg/kg	0.00327 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	180 mg/kg		180 mg/kg	0.018 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		15 mg/kg	2.98	44.644 mg/kg	0.00446 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		240 mg/kg	2.08	500.285 mg/kg	0.05 %		
12	TPH (C6 to C40) petroleum group			TPH		500 mg/kg		500 mg/kg	0.05 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
20		naphthalene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-917-1	208-96-8									
22		acenaphthene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
			201-469-6	83-32-9									
23		fluorene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			201-695-5	86-73-7									
24		phenanthrene				8.3	mg/kg		8.3	mg/kg	0.00083 %		
			201-581-5	85-01-8									
25		anthracene				3.2	mg/kg		3.2	mg/kg	0.00032 %		
			204-371-1	120-12-7									
26		fluoranthene				20	mg/kg		20	mg/kg	0.002 %		
			205-912-4	206-44-0									
27		pyrene				18	mg/kg		18	mg/kg	0.0018 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				7.7	mg/kg		7.7	mg/kg	0.00077 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				8.1	mg/kg		8.1	mg/kg	0.00081 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				6.9	mg/kg		6.9	mg/kg	0.00069 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				6.4	mg/kg		6.4	mg/kg	0.00064 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				6.8	mg/kg		6.8	mg/kg	0.00068 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				3.4	mg/kg		3.4	mg/kg	0.00034 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				4.1	mg/kg		4.1	mg/kg	0.00041 %		
			205-883-8	191-24-2									
36		phenol				0.16	mg/kg		0.16	mg/kg	0.000016 %		
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0.016	mg/kg		<0.016	mg/kg	<0.00000156 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
38		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		607-317-00-9	204-211-0	117-81-7									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		4-chloroaniline				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		612-137-00-9	203-401-0	106-47-8									
40		dibutyl phthalate; DBP				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		607-318-00-4	201-557-4	84-74-2									
41		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				6.4	mg/kg		6.4	mg/kg	0.00064 %		
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
42		asbestos				420	mg/kg		420	mg/kg	0.042 %		
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.191 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT18

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT18
Sample Depth:
0.6-1.0 m
Moisture content:
9.5%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 9.5% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		28 mg/kg	1.32	36.969 mg/kg	0.0037 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		29 mg/kg	1.46	42.385 mg/kg	0.00424 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		120 mg/kg	1.13	135.107 mg/kg	0.0135 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	750 mg/kg		750 mg/kg	0.075 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.35	1.353 mg/kg	0.000135 %		
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26 mg/kg	2.98	77.383 mg/kg	0.00774 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		250 mg/kg	2.08	521.13 mg/kg	0.0521 %		
12	TPH (C6 to C40) petroleum group			TPH		30 mg/kg		30 mg/kg	0.003 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
20		naphthalene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-917-1	208-96-8									
22		acenaphthene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
			201-469-6	83-32-9									
23		fluorene				1	mg/kg		1	mg/kg	0.0001 %		
			201-695-5	86-73-7									
24		phenanthrene				10	mg/kg		10	mg/kg	0.001 %		
			201-581-5	85-01-8									
25		anthracene				2.4	mg/kg		2.4	mg/kg	0.00024 %		
			204-371-1	120-12-7									
26		fluoranthene				13	mg/kg		13	mg/kg	0.0013 %		
			205-912-4	206-44-0									
27		pyrene				12	mg/kg		12	mg/kg	0.0012 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				5.7	mg/kg		5.7	mg/kg	0.00057 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				6.3	mg/kg		6.3	mg/kg	0.00063 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				4.6	mg/kg		4.6	mg/kg	0.00046 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				4.1	mg/kg		4.1	mg/kg	0.00041 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				4.3	mg/kg		4.3	mg/kg	0.00043 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				1.8	mg/kg		1.8	mg/kg	0.00018 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				2.2	mg/kg		2.2	mg/kg	0.00022 %		
			205-883-8	191-24-2									
36		phenol				0.06	mg/kg		0.06	mg/kg	0.000006 %		
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0.004	mg/kg		<0.004	mg/kg	<0.00000035 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
38		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		607-317-00-9	204-211-0	117-81-7									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		4-chloroaniline				0.9	mg/kg		0.9	mg/kg	0.00009 %		
		612-137-00-9	203-401-0	106-47-8									
40		dibutyl phthalate; DBP				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		607-318-00-4	201-557-4	84-74-2									
41		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				4.8	mg/kg		4.8	mg/kg	0.00048 %		
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
										Total:	0.169 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH27[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH27[1]
Sample Depth:
1.5 m
Moisture content:
20%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 20% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10	mg/kg	1.32	13.203	mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		16	mg/kg	1.46	23.385	mg/kg	0.00234 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		22	mg/kg	1.13	24.77	mg/kg	0.00248 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	67	mg/kg		67	mg/kg	0.0067 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		16	mg/kg	2.98	47.62	mg/kg	0.00476 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		59	mg/kg	2.08	122.987	mg/kg	0.0123 %		
12	TPH (C6 to C40) petroleum group			TPH		3	mg/kg		3	mg/kg	0.0003 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0321 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH44

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH44
Sample Depth:
0.8-1.2 m
Moisture content:
11%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17 mg/kg	1.32	22.446 mg/kg	0.00224 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		13 mg/kg	1.46	19.000225 mg/kg	0.0019 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		77 mg/kg	1.13	86.693 mg/kg	0.00867 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	270 mg/kg		270 mg/kg	0.027 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1 mg/kg	1.35	1.353 mg/kg	0.000135 %		
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		13 mg/kg	2.98	38.691 mg/kg	0.00387 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		89 mg/kg	2.08	185.522 mg/kg	0.0186 %		
12	TPH (C6 to C40) petroleum group			TPH		440 mg/kg		440 mg/kg	0.044 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
20		naphthalene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-917-1	208-96-8									
22		acenaphthene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			201-469-6	83-32-9									
23		fluorene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			201-695-5	86-73-7									
24		phenanthrene				11	mg/kg		11	mg/kg	0.0011 %		
			201-581-5	85-01-8									
25		anthracene				3.9	mg/kg		3.9	mg/kg	0.00039 %		
			204-371-1	120-12-7									
26		fluoranthene				19	mg/kg		19	mg/kg	0.0019 %		
			205-912-4	206-44-0									
27		pyrene				16	mg/kg		16	mg/kg	0.0016 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				7.1	mg/kg		7.1	mg/kg	0.00071 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				7.6	mg/kg		7.6	mg/kg	0.00076 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				5.7	mg/kg		5.7	mg/kg	0.00057 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				6	mg/kg		6	mg/kg	0.0006 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				5.2	mg/kg		5.2	mg/kg	0.00052 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				2.1	mg/kg		2.1	mg/kg	0.00021 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				2.8	mg/kg		2.8	mg/kg	0.00028 %		
			205-883-8	191-24-2									
36		phenol				0.12	mg/kg		0.12	mg/kg	0.000012 %		
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0.004	mg/kg		<0.004	mg/kg	<0.00000035 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
38		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		607-317-00-9	204-211-0	117-81-7									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		4-chloroaniline				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		612-137-00-9	203-401-0	106-47-8									
40		dibutyl phthalate; DBP				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		607-318-00-4	201-557-4	84-74-2									
41		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				4.2	mg/kg		4.2	mg/kg	0.00042 %		
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
										Total:	0.117 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH44[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH44[1]
Sample Depth:
0.1-0.6 m
Moisture content:
5.1%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 5.1% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		23 mg/kg	1.46	33.616 mg/kg	0.00336 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		32 mg/kg	1.13	36.028 mg/kg	0.0036 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	78 mg/kg		78 mg/kg	0.0078 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18 mg/kg	2.98	53.573 mg/kg	0.00536 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		110 mg/kg	2.08	229.297 mg/kg	0.0229 %		
12	TPH (C6 to C40) petroleum group			TPH		12 mg/kg		12 mg/kg	0.0012 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
			201-581-5	85-01-8									
20	●	anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-371-1	120-12-7									
21	●	fluoranthene				1.7	mg/kg		1.7	mg/kg	0.00017 %		
			205-912-4	206-44-0									
22	●	pyrene				1.9	mg/kg		1.9	mg/kg	0.00019 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
			205-883-8	191-24-2									
31		phenol				0.11	mg/kg		0.11	mg/kg	0.000011 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0482 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT26

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT26
Sample Depth:
0.7-1.2 m
Moisture content:
8.1%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 8.1% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4 mg/kg	1.32	5.281 mg/kg	0.000528 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		8 mg/kg	1.46	11.692 mg/kg	0.00117 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11 mg/kg	1.13	12.385 mg/kg	0.00124 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	23 mg/kg		23 mg/kg	0.0023 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		13 mg/kg	2.98	38.691 mg/kg	0.00387 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		47 mg/kg	2.08	97.972 mg/kg	0.0098 %		
12	TPH (C6 to C40) petroleum group			TPH		74 mg/kg		74 mg/kg	0.0074 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.9	pH		8.9	pH	8.9 pH		
				PH									
15		naphthalene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		**<LOD**
			205-917-1	208-96-8									
17		acenaphthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-469-6	83-32-9									
18		fluorene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-695-5	86-73-7									
19		phenanthrene				2.1	mg/kg		2.1	mg/kg	0.00021 %		
			201-581-5	85-01-8									
20		anthracene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			204-371-1	120-12-7									
21		fluoranthene				2.7	mg/kg		2.7	mg/kg	0.00027 %		
			205-912-4	206-44-0									
22		pyrene				2.4	mg/kg		2.4	mg/kg	0.00024 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				1	mg/kg		1	mg/kg	0.0001 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				1	mg/kg		1	mg/kg	0.0001 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		**<LOD**
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			205-883-8	191-24-2									
31		phenol				0.04	mg/kg		0.04	mg/kg	0.000004 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0294 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT26[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT26[1]
Sample Depth:
0.2-0.5 m
Moisture content:
13%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17 mg/kg	1.32	22.446 mg/kg	0.00224 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		47 mg/kg	1.46	68.693 mg/kg	0.00687 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		39 mg/kg	1.13	43.91 mg/kg	0.00439 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	75 mg/kg		75 mg/kg	0.0075 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		34 mg/kg	2.98	101.193 mg/kg	0.0101 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		140 mg/kg	2.08	291.833 mg/kg	0.0292 %		
12	TPH (C6 to C40) petroleum group			TPH		11 mg/kg		11 mg/kg	0.0011 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
15		naphthalene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
			205-912-4	206-44-0									
22	●	pyrene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-883-8	191-24-2									
31		phenol				0.02	mg/kg		0.02	mg/kg	0.000002 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0636 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT34

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT34
Sample Depth:
0.5-0.7 m
Moisture content:
6.6%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 6.6% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4 mg/kg	1.32	5.281 mg/kg	0.000528 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		14 mg/kg	1.46	20.462 mg/kg	0.00205 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.13	14.637 mg/kg	0.00146 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	25 mg/kg		25 mg/kg	0.0025 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		12 mg/kg	2.98	35.715 mg/kg	0.00357 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		61 mg/kg	2.08	127.156 mg/kg	0.0127 %		
12	TPH (C6 to C40) petroleum group			TPH		710 mg/kg		710 mg/kg	0.071 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
20		naphthalene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			205-917-1	208-96-8									
22		acenaphthene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
			201-469-6	83-32-9									
23		fluorene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
			201-695-5	86-73-7									
24		phenanthrene				8.8	mg/kg		8.8	mg/kg	0.00088 %		
			201-581-5	85-01-8									
25		anthracene				2.2	mg/kg		2.2	mg/kg	0.00022 %		
			204-371-1	120-12-7									
26		fluoranthene				9	mg/kg		9	mg/kg	0.0009 %		
			205-912-4	206-44-0									
27		pyrene				8.2	mg/kg		8.2	mg/kg	0.00082 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				3.3	mg/kg		3.3	mg/kg	0.00033 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				3.3	mg/kg		3.3	mg/kg	0.00033 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				3.3	mg/kg		3.3	mg/kg	0.00033 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				3.5	mg/kg		3.5	mg/kg	0.00035 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				3.8	mg/kg		3.8	mg/kg	0.00038 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				2.1	mg/kg		2.1	mg/kg	0.00021 %		
			205-883-8	191-24-2									
36		phenol				0.04	mg/kg		0.04	mg/kg	0.000004 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.101 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS03

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS03
Sample Depth:
1.8-2.0 m
Moisture content:
16%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11	mg/kg	1.32	14.524	mg/kg	0.00145 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		25	mg/kg	1.46	36.539	mg/kg	0.00365 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15	mg/kg	1.13	16.888	mg/kg	0.00169 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	17	mg/kg		17	mg/kg	0.0017 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		24	mg/kg	2.98	71.43	mg/kg	0.00714 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		66	mg/kg	2.08	137.578	mg/kg	0.0138 %		
12	TPH (C6 to C40) petroleum group			TPH		6	mg/kg		6	mg/kg	0.0006 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0319 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS26

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS26
Sample Depth:
0.8 m
Moisture content:
22%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13	mg/kg	1.32	17.164	mg/kg	0.00172 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		28	mg/kg	1.46	40.924	mg/kg	0.00409 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		20	mg/kg	1.13	22.518	mg/kg	0.00225 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	39	mg/kg		39	mg/kg	0.0039 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26	mg/kg	2.98	77.383	mg/kg	0.00774 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		76	mg/kg	2.08	158.424	mg/kg	0.0158 %		
12	TPH (C6 to C40) petroleum group			TPH		15	mg/kg		15	mg/kg	0.0015 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0	mg/kg		<0.00035	mg/kg	<0.000000035 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0389 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS10A

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS10A
Sample Depth:
0.5 m
Moisture content:
11%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15 mg/kg	1.32	19.805 mg/kg	0.00198 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		29 mg/kg	1.46	42.385 mg/kg	0.00424 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		50 mg/kg	1.13	56.294 mg/kg	0.00563 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	160 mg/kg		160 mg/kg	0.016 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22 mg/kg	2.98	65.478 mg/kg	0.00655 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		240 mg/kg	2.08	500.285 mg/kg	0.05 %		
12	TPH (C6 to C40) petroleum group			TPH		200 mg/kg		200 mg/kg	0.02 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
20		naphthalene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			201-469-6	83-32-9									
23		fluorene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			201-695-5	86-73-7									
24		phenanthrene				10	mg/kg		10	mg/kg	0.001 %		
			201-581-5	85-01-8									
25		anthracene				3.6	mg/kg		3.6	mg/kg	0.00036 %		
			204-371-1	120-12-7									
26		fluoranthene				19	mg/kg		19	mg/kg	0.0019 %		
			205-912-4	206-44-0									
27		pyrene				16	mg/kg		16	mg/kg	0.0016 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				7.3	mg/kg		7.3	mg/kg	0.00073 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				7.3	mg/kg		7.3	mg/kg	0.00073 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				5.1	mg/kg		5.1	mg/kg	0.00051 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				5.6	mg/kg		5.6	mg/kg	0.00056 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				5.5	mg/kg		5.5	mg/kg	0.00055 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				2.4	mg/kg		2.4	mg/kg	0.00024 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				2.8	mg/kg		2.8	mg/kg	0.00028 %		
			205-883-8	191-24-2									
36		phenol				0.02	mg/kg		0.02	mg/kg	0.000002 %		
		604-001-00-2	203-632-7	108-95-2									
37		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		607-317-00-9	204-211-0	117-81-7									
38		4-chloroaniline				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		612-137-00-9	203-401-0	106-47-8									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
39		dibutyl phthalate; DBP				2	mg/kg		2	mg/kg	0.0002 %		
		607-318-00-4	201-557-4	84-74-2									
40		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				3.4	mg/kg		3.4	mg/kg	0.00034 %		
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
										Total:	0.115 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS10A[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS10A[1]
Sample Depth:
1.4-1.6 m
Moisture content:
24%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 24% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13	mg/kg	1.32	17.164	mg/kg	0.00172 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1	mg/kg	3.22	3.22	mg/kg	0.000322 %		
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		27	mg/kg	1.46	39.462	mg/kg	0.00395 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		79	mg/kg	1.13	88.945	mg/kg	0.00889 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	48	mg/kg		48	mg/kg	0.0048 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27	mg/kg	2.98	80.359	mg/kg	0.00804 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		730	mg/kg	2.08	1521.701	mg/kg	0.152 %		
12	TPH (C6 to C40) petroleum group			TPH		4	mg/kg		4	mg/kg	0.0004 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.182 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT31

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT31
Sample Depth:
1 m
Moisture content:
7%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 7% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		1 mg/kg	1.14	1.142 mg/kg	0.000114 %		
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		7 mg/kg	1.46	10.231 mg/kg	0.00102 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		56 mg/kg	1.13	63.05 mg/kg	0.0063 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	20 mg/kg		20 mg/kg	0.002 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		11 mg/kg	2.98	32.739 mg/kg	0.00327 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		170 mg/kg	2.08	354.369 mg/kg	0.0354 %		
12	TPH (C6 to C40) petroleum group			TPH		9 mg/kg		9 mg/kg	0.0009 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				10.8	pH		10.8	pH	10.8 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				1	mg/kg		1	mg/kg	0.0001 %		
			205-912-4	206-44-0									
22		pyrene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0524 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS24[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS24[1]
Sample Depth:
1.2-1.8 m
Moisture content:
23%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 23% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12	mg/kg	1.32	15.844	mg/kg	0.00158 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		15	mg/kg	1.46	21.923	mg/kg	0.00219 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		23	mg/kg	1.13	25.895	mg/kg	0.00259 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	49	mg/kg		49	mg/kg	0.0049 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18	mg/kg	2.98	53.573	mg/kg	0.00536 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		56	mg/kg	2.08	116.733	mg/kg	0.0117 %		
12	TPH (C6 to C40) petroleum group			TPH		2	mg/kg		2	mg/kg	0.0002 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0304 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS25

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS25
Sample Depth:
1.83-2 m
Moisture content:
23%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 23% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15	mg/kg	1.32	19.805	mg/kg	0.00198 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		23	mg/kg	1.46	33.616	mg/kg	0.00336 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		30	mg/kg	1.13	33.777	mg/kg	0.00338 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	190	mg/kg		190	mg/kg	0.019 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26	mg/kg	2.98	77.383	mg/kg	0.00774 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		84	mg/kg	2.08	175.1	mg/kg	0.0175 %		
12	TPH (C6 to C40) petroleum group			TPH		600	mg/kg		600	mg/kg	0.06 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				7.5	pH		7.5	pH	7.5 pH		
				PH									
20		naphthalene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.115 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS25[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS25[1]
Sample Depth:
2-2.5 m
Moisture content:
20%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 20% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		25 mg/kg	1.46	36.539 mg/kg	0.00365 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		21 mg/kg	1.13	23.644 mg/kg	0.00236 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	39 mg/kg		39 mg/kg	0.0039 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26 mg/kg	2.98	77.383 mg/kg	0.00774 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		88 mg/kg	2.08	183.438 mg/kg	0.0183 %		
12	TPH (C6 to C40) petroleum group			TPH		580 mg/kg		580 mg/kg	0.058 %		

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
15		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
16		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
17		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		0.06	mg/kg		0.06	mg/kg	0.000006 %		
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
19		pH			PH		7.5	pH		7.5	pH	7.5 pH		
20		naphthalene	601-052-00-2	202-049-5	91-20-3		0.2	mg/kg		0.2	mg/kg	0.00002 %		
21		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
22		acenaphthene		201-469-6	83-32-9		0.3	mg/kg		0.3	mg/kg	0.00003 %		
23		fluorene		201-695-5	86-73-7		0.3	mg/kg		0.3	mg/kg	0.00003 %		
24		phenanthrene		201-581-5	85-01-8		0.4	mg/kg		0.4	mg/kg	0.00004 %		
25		anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		fluoranthene		205-912-4	206-44-0		0.4	mg/kg		0.4	mg/kg	0.00004 %		
27		pyrene		204-927-3	129-00-0		0.3	mg/kg		0.3	mg/kg	0.00003 %		
28		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
29		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
30		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
31		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
32		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
33		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
34		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
35		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
36		phenol	604-001-00-2	203-632-7	108-95-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
											Total:	0.0976 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS26[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS26[1]
Sample Depth:
1.2-1.5 m
Moisture content:
39%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 39% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12	mg/kg	1.32	15.844	mg/kg	0.00158 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		24	mg/kg	1.46	35.077	mg/kg	0.00351 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17	mg/kg	1.13	19.14	mg/kg	0.00191 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	37	mg/kg		37	mg/kg	0.0037 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27	mg/kg	2.98	80.359	mg/kg	0.00804 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		73	mg/kg	2.08	152.17	mg/kg	0.0152 %		
12	TPH (C6 to C40) petroleum group			TPH		110	mg/kg		110	mg/kg	0.011 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0468 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS26[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS26[2]
Sample Depth:
1.7-2 m
Moisture content:
23%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 23% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		19 mg/kg	1.46	27.77 mg/kg	0.00278 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.13	14.637 mg/kg	0.00146 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	14 mg/kg		14 mg/kg	0.0014 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20 mg/kg	2.98	59.525 mg/kg	0.00595 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		55 mg/kg	2.08	114.649 mg/kg	0.0115 %		
12	TPH (C6 to C40) petroleum group			TPH		9.6 mg/kg		9.6 mg/kg	0.00096 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0272 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS26[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS26[3]
Sample Depth:
2-2.5 m
Moisture content:
23%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 23% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10	mg/kg	1.32	13.203	mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		19	mg/kg	1.46	27.77	mg/kg	0.00278 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13	mg/kg	1.13	14.637	mg/kg	0.00146 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	13	mg/kg		13	mg/kg	0.0013 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20	mg/kg	2.98	59.525	mg/kg	0.00595 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		52	mg/kg	2.08	108.395	mg/kg	0.0108 %		
12	TPH (C6 to C40) petroleum group			TPH		2	mg/kg		2	mg/kg	0.0002 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				0.027	mg/kg		0.027	mg/kg	0.0000027 %		
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				0.048	mg/kg		0.048	mg/kg	0.0000048 %		
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0257 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: TP18

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
TP18
Sample Depth:
0.25-0.4 m
Moisture content:
8.5%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 8.5% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17 mg/kg	1.32	22.446 mg/kg	0.00224 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		14 mg/kg	1.46	20.462 mg/kg	0.00205 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		54 mg/kg	1.13	60.798 mg/kg	0.00608 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	190 mg/kg		190 mg/kg	0.019 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19 mg/kg	2.98	56.549 mg/kg	0.00565 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		130 mg/kg	2.08	270.988 mg/kg	0.0271 %		
12	TPH (C6 to C40) petroleum group			TPH		79 mg/kg		79 mg/kg	0.0079 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				0.018	mg/kg		0.018	mg/kg	0.0000018 %		
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				0.073	mg/kg		0.073	mg/kg	0.0000073 %		
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
20		naphthalene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			201-581-5	85-01-8									
25		anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-371-1	120-12-7									
26		fluoranthene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
			205-912-4	206-44-0									
27		pyrene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-883-8	191-24-2									
36		phenol				0.11	mg/kg		0.11	mg/kg	0.000011 %		
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0.004	mg/kg		<0.004	mg/kg	<0.00000035 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
38		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
										Total:	0.0726 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: TP18[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
TP18[1]
Sample Depth:
0.25 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
								Total:	0%		

Key

	User supplied data
●	Determinand defined or amended by HazWasteOnline (see Appendix A)

Classification of sample: TP18[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
TP18[2]
Sample Depth:
0.65-0.7 m
Moisture content:
16%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		14 mg/kg	1.46	20.462 mg/kg	0.00205 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		21 mg/kg	1.13	23.644 mg/kg	0.00236 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	53 mg/kg		53 mg/kg	0.0053 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		16 mg/kg	2.98	47.62 mg/kg	0.00476 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		51 mg/kg	2.08	106.311 mg/kg	0.0106 %		
12	TPH (C6 to C40) petroleum group			TPH		4 mg/kg		4 mg/kg	0.0004 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0288 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: TP18A

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
TP18A
Sample Depth:
1.9-2.1 m
Moisture content:
18%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 18% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	arsenic { arsenic trioxide }		19 mg/kg	1.32	25.086 mg/kg	0.00251 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
2	boron { diboron trioxide; boric oxide }		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
	005-008-00-8 / 215-125-8 / 1303-86-2							
3	cadmium { cadmium oxide }		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
	048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]							
4	chromium in chromium(III) compounds { chromium(III) oxide }		24 mg/kg	1.46	35.077 mg/kg	0.00351 %		
	/ 215-160-9 / 1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
	024-001-00-0 / 215-607-8 / 1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }		27 mg/kg	1.13	30.399 mg/kg	0.00304 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	1	69 mg/kg		69 mg/kg	0.0069 %		
	082-001-00-6							
8	mercury { mercury dichloride }		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
	080-010-00-X / 231-299-8 / 7487-94-7							
9	nickel { nickel chromate }		27 mg/kg	2.98	80.359 mg/kg	0.00804 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }		<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
	034-002-00-8							
11	zinc { zinc chloride }		80 mg/kg	2.08	166.762 mg/kg	0.0167 %		
	030-003-00-2 / 231-592-0 / 7646-85-7							
12	TPH (C6 to C40) petroleum group		1 mg/kg		1 mg/kg	0.0001 %		
	/ / TPH							
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,		<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0426 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH23

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH23
Sample Depth:
0.5 m
Moisture content:
8%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 8% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16 mg/kg	1.32	21.125 mg/kg	0.00211 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		21 mg/kg	1.46	30.693 mg/kg	0.00307 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		63 mg/kg	1.13	70.931 mg/kg	0.00709 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	530 mg/kg		530 mg/kg	0.053 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22 mg/kg	2.98	65.478 mg/kg	0.00655 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		160 mg/kg	2.08	333.523 mg/kg	0.0334 %		
12	TPH (C6 to C40) petroleum group			TPH		28 mg/kg		28 mg/kg	0.0028 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
20		naphthalene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-917-1	208-96-8									
22		acenaphthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			201-469-6	83-32-9									
23		fluorene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			201-695-5	86-73-7									
24		phenanthrene				6.9	mg/kg		6.9	mg/kg	0.00069 %		
			201-581-5	85-01-8									
25		anthracene				2.4	mg/kg		2.4	mg/kg	0.00024 %		
			204-371-1	120-12-7									
26		fluoranthene				9	mg/kg		9	mg/kg	0.0009 %		
			205-912-4	206-44-0									
27		pyrene				7.4	mg/kg		7.4	mg/kg	0.00074 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				5.2	mg/kg		5.2	mg/kg	0.00052 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				5.8	mg/kg		5.8	mg/kg	0.00058 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				3.2	mg/kg		3.2	mg/kg	0.00032 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				4	mg/kg		4	mg/kg	0.0004 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				3.9	mg/kg		3.9	mg/kg	0.00039 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				2	mg/kg		2	mg/kg	0.0002 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				1.8	mg/kg		1.8	mg/kg	0.00018 %		
			205-883-8	191-24-2									
36		phenol				0.03	mg/kg		0.03	mg/kg	0.000003 %		
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0.004	mg/kg		<0.004	mg/kg	<0.00000038 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
38		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		607-317-00-9	204-211-0	117-81-7									
										Total:	0.115 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH14

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH14
Sample Depth:
0.5 m
Moisture content:
13%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		34 mg/kg	1.32	44.891 mg/kg	0.00449 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		23 mg/kg	1.46	33.616 mg/kg	0.00336 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		81 mg/kg	1.13	91.197 mg/kg	0.00912 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	330 mg/kg		330 mg/kg	0.033 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		24 mg/kg	2.98	71.43 mg/kg	0.00714 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		240 mg/kg	2.08	500.285 mg/kg	0.05 %		
12	TPH (C6 to C40) petroleum group			TPH		33 mg/kg		33 mg/kg	0.0033 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5											
14		pH 	 	 PH		7.6	pH		7.6	pH	7.6 pH		
15		naphthalene 601-052-00-2	 202-049-5	 91-20-3		0.2	mg/kg		0.2	mg/kg	0.00002 %		
16		acenaphthylene 	 205-917-1	 208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
17		acenaphthene 	 201-469-6	 83-32-9		0.2	mg/kg		0.2	mg/kg	0.00002 %		
18		fluorene 	 201-695-5	 86-73-7		0.3	mg/kg		0.3	mg/kg	0.00003 %		
19		phenanthrene 	 201-581-5	 85-01-8		3.4	mg/kg		3.4	mg/kg	0.00034 %		
20		anthracene 	 204-371-1	 120-12-7		0.8	mg/kg		0.8	mg/kg	0.00008 %		
21		fluoranthene 	 205-912-4	 206-44-0		5.2	mg/kg		5.2	mg/kg	0.00052 %		
22		pyrene 	 204-927-3	 129-00-0		4.5	mg/kg		4.5	mg/kg	0.00045 %		
23		benzo[a]anthracene 601-033-00-9	 200-280-6	 56-55-3		2.4	mg/kg		2.4	mg/kg	0.00024 %		
24		chrysene 601-048-00-0	 205-923-4	 218-01-9		2.2	mg/kg		2.2	mg/kg	0.00022 %		
25		benzo[b]fluoranthene 601-034-00-4	 205-911-9	 205-99-2		1.8	mg/kg		1.8	mg/kg	0.00018 %		
26		benzo[k]fluoranthene 601-036-00-5	 205-916-6	 207-08-9		1.6	mg/kg		1.6	mg/kg	0.00016 %		
27		benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	 200-028-5	 50-32-8		1.6	mg/kg		1.6	mg/kg	0.00016 %		
28		indeno[123-cd]pyrene 	 205-893-2	 193-39-5		0.7	mg/kg		0.7	mg/kg	0.00007 %		
29		dibenz[a,h]anthracene 601-041-00-2	 200-181-8	 53-70-3		0.3	mg/kg		0.3	mg/kg	0.00003 %		
30		benzo[ghi]perylene 	 205-883-8	 191-24-2		0.9	mg/kg		0.9	mg/kg	0.00009 %		
31		phenol 604-001-00-2	 203-632-7	 108-95-2		0.03	mg/kg		0.03	mg/kg	0.000003 %		
32		asbestos 650-013-00-6	 - - - - - - -	 12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<10	mg/kg		<10	mg/kg	<0.001 %		<**LOD**
										Total:	0.116 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS12[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS12[1]
Sample Depth:
1.5 m
Moisture content:
19%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 19% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		28	mg/kg	1.32	36.969	mg/kg	0.0037 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		31	mg/kg	1.46	45.308	mg/kg	0.00453 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		98	mg/kg	1.13	110.337	mg/kg	0.011 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	880	mg/kg		880	mg/kg	0.088 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		10	mg/kg	2.98	29.763	mg/kg	0.00298 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		240	mg/kg	2.08	500.285	mg/kg	0.05 %		
12	TPH (C6 to C40) petroleum group			TPH		260	mg/kg		260	mg/kg	0.026 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
20		naphthalene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-917-1	208-96-8									
22		acenaphthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			201-469-6	83-32-9									
23		fluorene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-695-5	86-73-7									
24		phenanthrene				3.2	mg/kg		3.2	mg/kg	0.00032 %		
			201-581-5	85-01-8									
25		anthracene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
			204-371-1	120-12-7									
26		fluoranthene				13	mg/kg		13	mg/kg	0.0013 %		
			205-912-4	206-44-0									
27		pyrene				13	mg/kg		13	mg/kg	0.0013 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				7	mg/kg		7	mg/kg	0.0007 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				6.9	mg/kg		6.9	mg/kg	0.00069 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				6.9	mg/kg		6.9	mg/kg	0.00069 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				5.2	mg/kg		5.2	mg/kg	0.00052 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				6.7	mg/kg		6.7	mg/kg	0.00067 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				3	mg/kg		3	mg/kg	0.0003 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				3.3	mg/kg		3.3	mg/kg	0.00033 %		
			205-883-8	191-24-2									
36		phenol				0.12	mg/kg		0.12	mg/kg	0.000012 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.195 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS22

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS22
Sample Depth:
1 m
Moisture content:
20%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 20% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14 mg/kg	1.32	18.485 mg/kg	0.00185 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		27 mg/kg	1.46	39.462 mg/kg	0.00395 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		45 mg/kg	1.13	50.665 mg/kg	0.00507 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	190 mg/kg		190 mg/kg	0.019 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		24 mg/kg	2.98	71.43 mg/kg	0.00714 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		130 mg/kg	2.08	270.988 mg/kg	0.0271 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0661 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: SCPT32

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT32
Sample Depth:
0.8 m
Moisture content:
22%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	arsenic { arsenic trioxide }		19 mg/kg	1.32	25.086 mg/kg	0.00251 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
2	boron { diboron trioxide; boric oxide }		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
	005-008-00-8 / 215-125-8 / 1303-86-2							
3	cadmium { cadmium oxide }		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
	048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]							
4	chromium in chromium(III) compounds { chromium(III) oxide }		11 mg/kg	1.46	16.077 mg/kg	0.00161 %		
	/ 215-160-9 / 1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
	024-001-00-0 / 215-607-8 / 1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }		160 mg/kg	1.13	180.142 mg/kg	0.018 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	1	420 mg/kg		420 mg/kg	0.042 %		
	082-001-00-6 / /							
8	mercury { mercury dichloride }		2 mg/kg	1.35	2.707 mg/kg	0.000271 %		
	080-010-00-X / 231-299-8 / 7487-94-7							
9	nickel { nickel chromate }		17 mg/kg	2.98	50.597 mg/kg	0.00506 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }		<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
	034-002-00-8 / /							
11	zinc { zinc chloride }		110 mg/kg	2.08	229.297 mg/kg	0.0229 %		
	030-003-00-2 / 231-592-0 / 7646-85-7							
12	TPH (C6 to C40) petroleum group		46 mg/kg		46 mg/kg	0.0046 %		
	/ / TPH							
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,		<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			201-581-5	85-01-8									
20	●	anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-371-1	120-12-7									
21	●	fluoranthene				1.8	mg/kg		1.8	mg/kg	0.00018 %		
			205-912-4	206-44-0									
22	●	pyrene				1.7	mg/kg		1.7	mg/kg	0.00017 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			205-883-8	191-24-2									
31		phenol				0.01	mg/kg		0.01	mg/kg	0.000001 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0995 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH41

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH41
Sample Depth:
1.5 m
Moisture content:
16%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1 mg/kg	3.22	3.22 mg/kg	0.000322 %		
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		15 mg/kg	1.46	21.923 mg/kg	0.00219 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		19 mg/kg	1.13	21.392 mg/kg	0.00214 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	40 mg/kg		40 mg/kg	0.004 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17 mg/kg	2.98	50.597 mg/kg	0.00506 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		81 mg/kg	2.08	168.846 mg/kg	0.0169 %		
12	TPH (C6 to C40) petroleum group			TPH		420 mg/kg		420 mg/kg	0.042 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.8	pH		8.8	pH	8.8 pH		
				PH									
15		naphthalene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		**<LOD**
			205-917-1	208-96-8									
17		acenaphthene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
			201-469-6	83-32-9									
18		fluorene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
			201-695-5	86-73-7									
19		phenanthrene				5	mg/kg		5	mg/kg	0.0005 %		
			201-581-5	85-01-8									
20		anthracene				1.8	mg/kg		1.8	mg/kg	0.00018 %		
			204-371-1	120-12-7									
21		fluoranthene				7.3	mg/kg		7.3	mg/kg	0.00073 %		
			205-912-4	206-44-0									
22		pyrene				6.6	mg/kg		6.6	mg/kg	0.00066 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				2.9	mg/kg		2.9	mg/kg	0.00029 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				2.4	mg/kg		2.4	mg/kg	0.00024 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				1.7	mg/kg		1.7	mg/kg	0.00017 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				2	mg/kg		2	mg/kg	0.0002 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
			205-883-8	191-24-2									
31		phenol				0.01	mg/kg		0.01	mg/kg	0.000001 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0787 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS20

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS20
Sample Depth:
0.25 m
Moisture content:
7%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 7% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		36 mg/kg	1.32	47.532 mg/kg	0.00475 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		28 mg/kg	1.46	40.924 mg/kg	0.00409 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		86 mg/kg	1.13	96.826 mg/kg	0.00968 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	210 mg/kg		210 mg/kg	0.021 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		49 mg/kg	2.98	145.837 mg/kg	0.0146 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		110 mg/kg	2.08	229.297 mg/kg	0.0229 %		
12	TPH (C6 to C40) petroleum group			TPH		270 mg/kg		270 mg/kg	0.027 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
15		naphthalene				1.9	mg/kg		1.9	mg/kg	0.00019 %		
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-917-1	208-96-8									
17		acenaphthene				2.6	mg/kg		2.6	mg/kg	0.00026 %		
			201-469-6	83-32-9									
18		fluorene				2.2	mg/kg		2.2	mg/kg	0.00022 %		
			201-695-5	86-73-7									
19		phenanthrene				16	mg/kg		16	mg/kg	0.0016 %		
			201-581-5	85-01-8									
20		anthracene				5.4	mg/kg		5.4	mg/kg	0.00054 %		
			204-371-1	120-12-7									
21		fluoranthene				24	mg/kg		24	mg/kg	0.0024 %		
			205-912-4	206-44-0									
22		pyrene				22	mg/kg		22	mg/kg	0.0022 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				9.9	mg/kg		9.9	mg/kg	0.00099 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				9.6	mg/kg		9.6	mg/kg	0.00096 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				6.9	mg/kg		6.9	mg/kg	0.00069 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				7.4	mg/kg		7.4	mg/kg	0.00074 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				7.3	mg/kg		7.3	mg/kg	0.00073 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				3	mg/kg		3	mg/kg	0.0003 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				2.8	mg/kg		2.8	mg/kg	0.00028 %		
			205-883-8	191-24-2									
31		phenol				0.95	mg/kg		0.95	mg/kg	0.000095 %		
		604-001-00-2	203-632-7	108-95-2									
32		polychlorobiphenyls; PCB				<0.004	mg/kg		<0.004	mg/kg	<0.00000041 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
33		asbestos				180	mg/kg		180	mg/kg	0.018 %		
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.136 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS20[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS20[1]
Sample Depth:
1.5 m
Moisture content:
17%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14 mg/kg	1.32	18.485 mg/kg	0.00185 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		26 mg/kg	1.46	38.00045 mg/kg	0.0038 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		25 mg/kg	1.13	28.147 mg/kg	0.00281 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	68 mg/kg		68 mg/kg	0.0068 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27 mg/kg	2.98	80.359 mg/kg	0.00804 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		200 mg/kg	2.08	416.904 mg/kg	0.0417 %		
12	TPH (C6 to C40) petroleum group			TPH		17 mg/kg		17 mg/kg	0.0017 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			205-912-4	206-44-0									
27		pyrene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0	mg/kg		<0.00035	mg/kg	<0.000000035 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0687 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH41[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH41[1]
Sample Depth:
3 m
Moisture content:
25%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 25% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	arsenic { arsenic trioxide }		16 mg/kg	1.32	21.125 mg/kg	0.00211 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
2	boron { diboron trioxide; boric oxide }		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
	005-008-00-8 / 215-125-8 / 1303-86-2							
3	cadmium { cadmium oxide }		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
	048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]							
4	chromium in chromium(III) compounds { chromium(III) oxide }		19 mg/kg	1.46	27.77 mg/kg	0.00278 %		
	/ 215-160-9 / 1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
	024-001-00-0 / 215-607-8 / 1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }		28 mg/kg	1.13	31.525 mg/kg	0.00315 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	1	180 mg/kg		180 mg/kg	0.018 %		
	082-001-00-6 / /							
8	mercury { mercury dichloride }		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
	080-010-00-X / 231-299-8 / 7487-94-7							
9	nickel { nickel chromate }		15 mg/kg	2.98	44.644 mg/kg	0.00446 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }		<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
	034-002-00-8 / /							
11	zinc { zinc chloride }		120 mg/kg	2.08	250.143 mg/kg	0.025 %		
	030-003-00-2 / 231-592-0 / 7646-85-7							
12	TPH (C6 to C40) petroleum group		260 mg/kg		260 mg/kg	0.026 %		
	/ / TPH							
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,		<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8	pH		8	pH	8pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
			201-581-5	85-01-8									
20	●	anthracene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			204-371-1	120-12-7									
21	●	fluoranthene				2.4	mg/kg		2.4	mg/kg	0.00024 %		
			205-912-4	206-44-0									
22	●	pyrene				2	mg/kg		2	mg/kg	0.0002 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
32	●	polychlorobiphenyls; PCB				<0.001	mg/kg		<0.00062	mg/kg	<0.000000062 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
33		asbestos				330	mg/kg		330	mg/kg	0.033 %		
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.117 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH41[2]

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:
BH41[2]
Sample Depth:
8.5 m
Moisture content:
10%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.35%)
xylene: (conc.: 0.0000108%)
1,2,4-trimethylbenzene: (conc.: 0.000027%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.35%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.35%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

R52/53 "Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinand:

benzo[a]anthracene: (conc.: 0.0026%)

Determinands

Moisture content: 10% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17	mg/kg	1.32	22.446	mg/kg	0.00224 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1	mg/kg	3.22	3.22	mg/kg	0.000322 %		
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		18	mg/kg	1.46	26.308	mg/kg	0.00263 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		110	mg/kg	1.13	123.848	mg/kg	0.0124 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	130	mg/kg		130	mg/kg	0.013 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17	mg/kg	2.98	50.597	mg/kg	0.00506 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		300	mg/kg	2.08	625.356	mg/kg	0.0625 %		
12	TPH (C6 to C40) petroleum group			TPH		3500	mg/kg		3500	mg/kg	0.35 %		
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<**LOD**
14	benzene	601-020-00-8	200-753-7	71-43-2		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<**LOD**
15	toluene	601-021-00-3	203-625-9	108-88-3		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<**LOD**
16	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<**LOD**
17	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		0.108	mg/kg		0.108	mg/kg	0.000011 %		
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
19	pH			PH		10.1	pH		10.1	pH	10.1 pH		
20	naphthalene	601-052-00-2	202-049-5	91-20-3		59	mg/kg		59	mg/kg	0.0059 %		
21	acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
22	acenaphthene		201-469-6	83-32-9		18	mg/kg		18	mg/kg	0.0018 %		
23	fluorene		201-695-5	86-73-7		21	mg/kg		21	mg/kg	0.0021 %		
24	phenanthrene		201-581-5	85-01-8		54	mg/kg		54	mg/kg	0.0054 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
25		anthracene				26	mg/kg		26	mg/kg	0.0026 %		
			204-371-1	120-12-7									
26		fluoranthene				43	mg/kg		43	mg/kg	0.0043 %		
			205-912-4	206-44-0									
27		pyrene				37	mg/kg		37	mg/kg	0.0037 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				26	mg/kg		26	mg/kg	0.0026 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				23	mg/kg		23	mg/kg	0.0023 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				21	mg/kg		21	mg/kg	0.0021 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				15	mg/kg		15	mg/kg	0.0015 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				19	mg/kg		19	mg/kg	0.0019 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				7.6	mg/kg		7.6	mg/kg	0.00076 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				2.5	mg/kg		2.5	mg/kg	0.00025 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				7.2	mg/kg		7.2	mg/kg	0.00072 %		
			205-883-8	191-24-2									
36		phenol				28	mg/kg		28	mg/kg	0.0028 %		
		604-001-00-2	203-632-7	108-95-2									
37		1,2,4-trimethylbenzene				0.27	mg/kg		0.27	mg/kg	0.000027 %		
		601-043-00-3	202-436-9	95-63-6									
38		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		607-317-00-9	204-211-0	117-81-7									
39		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
40		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
										Total:	0.49 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH41[3]

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:
BH41[3]
Sample Depth:
9.5 m
Moisture content:
14%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.21%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.21%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.21%)

Determinands

Moisture content: 14% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
1		arsenic { arsenic trioxide }				18	mg/kg	1.32	23.766	mg/kg	0.00238 %		
		033-003-00-0	215-481-4	1327-53-3									
2		boron { diboron trioxide; boric oxide }				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<**LOD**
		005-008-00-8	215-125-8	1303-86-2									
3		cadmium { cadmium oxide }				<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<**LOD**
		048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]									

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
4		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		22	mg/kg	1.46	32.154	mg/kg	0.00322 %		
5		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		170	mg/kg	1.13	191.401	mg/kg	0.0191 %		
7		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	330	mg/kg		330	mg/kg	0.033 %		
8		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9		nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26	mg/kg	2.98	77.383	mg/kg	0.00774 %		
10		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11		zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		510	mg/kg	2.08	1063.106	mg/kg	0.106 %		
12		TPH (C6 to C40) petroleum group			TPH		2100	mg/kg		2100	mg/kg	0.21 %		
13		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
14		pH			PH		9.7	pH		9.7	pH	9.7 pH		
15		naphthalene	601-052-00-2	202-049-5	91-20-3		71	mg/kg		71	mg/kg	0.0071 %		
16		acenaphthylene		205-917-1	208-96-8		0.2	mg/kg		0.2	mg/kg	0.00002 %		
17		acenaphthene		201-469-6	83-32-9		13	mg/kg		13	mg/kg	0.0013 %		
18		fluorene		201-695-5	86-73-7		15	mg/kg		15	mg/kg	0.0015 %		
19		phenanthrene		201-581-5	85-01-8		56	mg/kg		56	mg/kg	0.0056 %		
20		anthracene		204-371-1	120-12-7		22	mg/kg		22	mg/kg	0.0022 %		
21		fluoranthene		205-912-4	206-44-0		47	mg/kg		47	mg/kg	0.0047 %		
22		pyrene		204-927-3	129-00-0		42	mg/kg		42	mg/kg	0.0042 %		
23		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		19	mg/kg		19	mg/kg	0.0019 %		
24		chrysene	601-048-00-0	205-923-4	218-01-9		16	mg/kg		16	mg/kg	0.0016 %		
25		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		12	mg/kg		12	mg/kg	0.0012 %		
26		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		11	mg/kg		11	mg/kg	0.0011 %		
27		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		11	mg/kg		11	mg/kg	0.0011 %		
28		indeno[123-cd]pyrene		205-893-2	193-39-5		3.6	mg/kg		3.6	mg/kg	0.00036 %		
29		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		1.3	mg/kg		1.3	mg/kg	0.00013 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
30		benzo[ghi]perylene				4	mg/kg		4	mg/kg	0.0004 %		
			205-883-8	191-24-2									
31		phenol				0.92	mg/kg		0.92	mg/kg	0.000092 %		
		604-001-00-2	203-632-7	108-95-2									
32		asbestos				740	mg/kg		740	mg/kg	0.074 %		
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.492 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH44[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH44[2]
Sample Depth:
1.5 m
Moisture content:
31%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 31% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17 mg/kg	1.32	22.446 mg/kg	0.00224 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		19 mg/kg	1.46	27.77 mg/kg	0.00278 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		68 mg/kg	1.13	76.56 mg/kg	0.00766 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	170 mg/kg		170 mg/kg	0.017 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22 mg/kg	2.98	65.478 mg/kg	0.00655 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		94 mg/kg	2.08	195.945 mg/kg	0.0196 %		
12	TPH (C6 to C40) petroleum group			TPH		410 mg/kg		410 mg/kg	0.041 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
15		naphthalene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19		phenanthrene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
			201-581-5	85-01-8									
20		anthracene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			204-371-1	120-12-7									
21		fluoranthene				2.3	mg/kg		2.3	mg/kg	0.00023 %		
			205-912-4	206-44-0									
22		pyrene				2	mg/kg		2	mg/kg	0.0002 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0996 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS17

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS17
Sample Depth:
1 m
Moisture content:
11%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		32 mg/kg	1.46	46.77 mg/kg	0.00468 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		43 mg/kg	1.13	48.413 mg/kg	0.00484 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	45 mg/kg		45 mg/kg	0.0045 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		110 mg/kg	2.98	327.389 mg/kg	0.0327 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		53 mg/kg	2.08	110.48 mg/kg	0.011 %		
12	TPH (C6 to C40) petroleum group			TPH		140 mg/kg		140 mg/kg	0.014 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8	pH		8	pH	8pH		
				PH									
15		naphthalene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17		acenaphthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-469-6	83-32-9									
18		fluorene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-695-5	86-73-7									
19		phenanthrene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
			201-581-5	85-01-8									
20		anthracene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			204-371-1	120-12-7									
21		fluoranthene				2.4	mg/kg		2.4	mg/kg	0.00024 %		
			205-912-4	206-44-0									
22		pyrene				2.1	mg/kg		2.1	mg/kg	0.00021 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.076 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS16

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS16
Sample Depth:
0.5 m
Moisture content:
17%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		22 mg/kg	1.32	29.047 mg/kg	0.0029 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		57 mg/kg	1.46	83.309 mg/kg	0.00833 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		61 mg/kg	1.13	68.679 mg/kg	0.00687 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	100 mg/kg		100 mg/kg	0.01 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		41 mg/kg	2.98	122.027 mg/kg	0.0122 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		170 mg/kg	2.08	354.369 mg/kg	0.0354 %		
12	TPH (C6 to C40) petroleum group			TPH		78 mg/kg		78 mg/kg	0.0078 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-912-4	206-44-0									
22		pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0854 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS14

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS14
Sample Depth:
0.3 m
Moisture content:
19%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 19% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		19	mg/kg	1.32	25.086	mg/kg	0.00251 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		18	mg/kg	1.46	26.308	mg/kg	0.00263 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		34	mg/kg	1.13	38.28	mg/kg	0.00383 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	230	mg/kg		230	mg/kg	0.023 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22	mg/kg	2.98	65.478	mg/kg	0.00655 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		67	mg/kg	2.08	139.663	mg/kg	0.014 %		
12	TPH (C6 to C40) petroleum group			TPH		4	mg/kg		4	mg/kg	0.0004 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-912-4	206-44-0									
22		pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				0.01	mg/kg		0.01	mg/kg	0.000001 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0548 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: TP11

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:
TP11
Sample Depth:
0.4 m
Moisture content:
10%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 2; H351 "Suspected of causing cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex: (Note 1 conc.: 1.1%)

HP 10: Toxic for reproduction "waste which has adverse effects on sexual function and fertility in adult males and females, as well as developmental toxicity in the offspring"

Hazard Statements hit:

Repr. 1A; H360Df "May damage the unborn child. Suspected of damaging fertility."

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex: (Note 1 conc.: 1.1%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

R50/53 "Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex: (Note 1 conc.: 1.1%)

Determinands

Moisture content: 10% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		97 mg/kg	1.32	128.072 mg/kg	0.0128 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		42 mg/kg	1.46	61.385 mg/kg	0.00614 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
5		chromium in chromium(VI) compounds { chromium(VI) oxide }				<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
6		copper { dicopper oxide; copper (I) oxide }				500	mg/kg	1.13	562.944	mg/kg	0.0563 %		
		029-002-00-X	215-270-7	1317-39-1									
7		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	11000	mg/kg		11000	mg/kg	1.1 %		
		082-001-00-6											
8		mercury { mercury dichloride }				1	mg/kg	1.35	1.353	mg/kg	0.000135 %		
		080-010-00-X	231-299-8	7487-94-7									
9		nickel { nickel chromate }				72	mg/kg	2.98	214.291	mg/kg	0.0214 %		
		028-035-00-7	238-766-5	14721-18-7									
10		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
		034-002-00-8											
11		zinc { zinc chloride }				390	mg/kg	2.08	812.963	mg/kg	0.0813 %		
		030-003-00-2	231-592-0	7646-85-7									
12		TPH (C6 to C40) petroleum group				170	mg/kg		170	mg/kg	0.017 %		
				TPH									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				7.6	pH		7.6	pH	7.6 pH		
				PH									
20		naphthalene				2	mg/kg		2	mg/kg	0.0002 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				2.3	mg/kg		2.3	mg/kg	0.00023 %		
			201-581-5	85-01-8									
25		anthracene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			204-371-1	120-12-7									
26		fluoranthene				3.6	mg/kg		3.6	mg/kg	0.00036 %		
			205-912-4	206-44-0									
27		pyrene				3.3	mg/kg		3.3	mg/kg	0.00033 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				1.9	mg/kg		1.9	mg/kg	0.00019 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
		601-048-00-0	205-923-4	218-01-9									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
30		benzo[b]fluoranthene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				1.4	mg/kg		1.4	mg/kg	0.00014 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				1.4	mg/kg		1.4	mg/kg	0.00014 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
			205-883-8	191-24-2									
36		phenol				0.18	mg/kg		0.18	mg/kg	0.000018 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	1.299 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: TP11[1]

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:	LoW Code:	
TP11[1]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
1.6 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
Moisture content:		
22% (no correction)		

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinand:

ethylbenzene: (conc.: 0.0000033%)

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinands:

TPH (C6 to C40) petroleum group: (conc.: 0.2%)
cumene; [1] propylbenzene [2]: (conc.: 0.0000066%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.2%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.2%)

Determinands

Moisture content: 22% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
1		arsenic { arsenic trioxide }				16 mg/kg	1.32	21.125 mg/kg	0.00211 %		
		033-003-00-0	215-481-4	1327-53-3							

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		25 mg/kg	1.46	36.539 mg/kg	0.00365 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		37 mg/kg	1.13	41.658 mg/kg	0.00417 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	640 mg/kg		640 mg/kg	0.064 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		29 mg/kg	2.98	86.312 mg/kg	0.00863 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		95 mg/kg	2.08	198.03 mg/kg	0.0198 %		
12	TPH (C6 to C40) petroleum group			TPH		2000 mg/kg		2000 mg/kg	0.2 %		
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
14	benzene	601-020-00-8	200-753-7	71-43-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
15	toluene	601-021-00-3	203-625-9	108-88-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
16	ethylbenzene	601-023-00-4	202-849-4	100-41-4		0.033 mg/kg		0.033 mg/kg	0.0000033 %		
17	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
18	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD
19	pH			PH		7.7 pH		7.7 pH	7.7 pH		
20	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
21	acenaphthylene		205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	acenaphthene		201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	fluorene		201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24	phenanthrene		201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25	anthracene		204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0	mg/kg		<0.00035	mg/kg	<0.000000035 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
38		cumene; [1] propylbenzene [2]				0.066	mg/kg		0.066	mg/kg	0.0000066 %		
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]									
										Total:	0.304 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH46

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:
BH46
Sample Depth:
0.5 m
Moisture content:
12%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

asbestos: (conc.: 0.11%)

Determinands

Moisture content: 12% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7 mg/kg	1.32	9.242 mg/kg	0.000924 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		11 mg/kg	1.46	16.077 mg/kg	0.00161 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		22 mg/kg	1.13	24.77 mg/kg	0.00248 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	110 mg/kg		110 mg/kg	0.011 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		13 mg/kg	2.98	38.691 mg/kg	0.00387 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
10		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<**LOD**
		034-002-00-8											
11		zinc { zinc chloride }				99	mg/kg	2.08	206.368	mg/kg	0.0206 %		
		030-003-00-2	231-592-0	7646-85-7									
12		TPH (C6 to C40) petroleum group				8	mg/kg		8	mg/kg	0.0008 %		
				TPH									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
20		naphthalene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			201-469-6	83-32-9									
23		fluorene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			201-695-5	86-73-7									
24		phenanthrene				3.3	mg/kg		3.3	mg/kg	0.00033 %		
			201-581-5	85-01-8									
25		anthracene				1	mg/kg		1	mg/kg	0.0001 %		
			204-371-1	120-12-7									
26		fluoranthene				4.1	mg/kg		4.1	mg/kg	0.00041 %		
			205-912-4	206-44-0									
27		pyrene				3.6	mg/kg		3.6	mg/kg	0.00036 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				1.3	mg/kg		1.3	mg/kg	0.00013 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				1	mg/kg		1	mg/kg	0.0001 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				1	mg/kg		1	mg/kg	0.0001 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			205-883-8	191-24-2									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
37		asbestos				1100	mg/kg		1100	mg/kg	0.11 %		
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5									
										Total:	0.155 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS23

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS23
Sample Depth:
0.25 m
Moisture content:
16%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17 mg/kg	1.32	22.446 mg/kg	0.00224 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		31 mg/kg	1.46	45.308 mg/kg	0.00453 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		46 mg/kg	1.13	51.791 mg/kg	0.00518 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	190 mg/kg		190 mg/kg	0.019 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27 mg/kg	2.98	80.359 mg/kg	0.00804 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		160 mg/kg	2.08	333.523 mg/kg	0.0334 %		
12	TPH (C6 to C40) petroleum group			TPH		59 mg/kg		59 mg/kg	0.0059 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.6	pH		7.6	pH	7.6 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				1	mg/kg		1	mg/kg	0.0001 %		
			201-581-5	85-01-8									
20	●	anthracene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			204-371-1	120-12-7									
21	●	fluoranthene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
			205-912-4	206-44-0									
22	●	pyrene				1.3	mg/kg		1.3	mg/kg	0.00013 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0807 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS13

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS13
Sample Depth:
0.3 m
Moisture content:
12%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 12% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		20 mg/kg	1.32	26.407 mg/kg	0.00264 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		17 mg/kg	1.46	24.846 mg/kg	0.00248 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		72 mg/kg	1.13	81.064 mg/kg	0.00811 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	190 mg/kg		190 mg/kg	0.019 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19 mg/kg	2.98	56.549 mg/kg	0.00565 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		80 mg/kg	2.08	166.762 mg/kg	0.0167 %		
12	TPH (C6 to C40) petroleum group			TPH		300 mg/kg		300 mg/kg	0.03 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				0.034	mg/kg		0.034	mg/kg	0.0000034 %		
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				9.3	pH		9.3	pH	9.3 pH		
				PH									
20		naphthalene				7.1	mg/kg		7.1	mg/kg	0.00071 %		
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				2.7	mg/kg		2.7	mg/kg	0.00027 %		
			201-469-6	83-32-9									
23		fluorene				3.8	mg/kg		3.8	mg/kg	0.00038 %		
			201-695-5	86-73-7									
24		phenanthrene				13	mg/kg		13	mg/kg	0.0013 %		
			201-581-5	85-01-8									
25		anthracene				5.5	mg/kg		5.5	mg/kg	0.00055 %		
			204-371-1	120-12-7									
26		fluoranthene				12	mg/kg		12	mg/kg	0.0012 %		
			205-912-4	206-44-0									
27		pyrene				11	mg/kg		11	mg/kg	0.0011 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				8	mg/kg		8	mg/kg	0.0008 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				8.2	mg/kg		8.2	mg/kg	0.00082 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				6.7	mg/kg		6.7	mg/kg	0.00067 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				7.5	mg/kg		7.5	mg/kg	0.00075 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				7.2	mg/kg		7.2	mg/kg	0.00072 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				3.2	mg/kg		3.2	mg/kg	0.00032 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				2.8	mg/kg		2.8	mg/kg	0.00028 %		
			205-883-8	191-24-2									
36		phenol				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0.004	mg/kg		<0.004	mg/kg	<0.00000035 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
38		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		607-317-00-9	204-211-0	117-81-7									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
39		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				0.1 mg/kg		0.1 mg/kg	0.00001 %		
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
40		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				0.2 mg/kg		0.2 mg/kg	0.00002 %		
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
								Total:	0.0963 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: TP16

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
TP16
Sample Depth:
0.1-0.3 m
Moisture content:
8%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 8% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		22 mg/kg	1.32	29.047 mg/kg	0.0029 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		20 mg/kg	1.46	29.231 mg/kg	0.00292 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		80 mg/kg	1.13	90.071 mg/kg	0.00901 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	220 mg/kg		220 mg/kg	0.022 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22 mg/kg	2.98	65.478 mg/kg	0.00655 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		190 mg/kg	2.08	396.059 mg/kg	0.0396 %		
12	TPH (C6 to C40) petroleum group			TPH		75 mg/kg		75 mg/kg	0.0075 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
15		naphthalene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19		phenanthrene				1	mg/kg		1	mg/kg	0.0001 %		
			201-581-5	85-01-8									
20		anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-371-1	120-12-7									
21		fluoranthene				2.4	mg/kg		2.4	mg/kg	0.00024 %		
			205-912-4	206-44-0									
22		pyrene				2.1	mg/kg		2.1	mg/kg	0.00021 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				1	mg/kg		1	mg/kg	0.0001 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				1	mg/kg		1	mg/kg	0.0001 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				1	mg/kg		1	mg/kg	0.0001 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0935 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: TP16[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
TP16[1]
Sample Depth:
0.6-0.9 m
Moisture content:
23%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 23% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		19	mg/kg	1.32	25.086	mg/kg	0.00251 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		32	mg/kg	1.46	46.77	mg/kg	0.00468 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		31	mg/kg	1.13	34.903	mg/kg	0.00349 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	88	mg/kg		88	mg/kg	0.0088 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		32	mg/kg	2.98	95.24	mg/kg	0.00952 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		110	mg/kg	2.08	229.297	mg/kg	0.0229 %		
12	TPH (C6 to C40) petroleum group			TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-912-4	206-44-0									
22		pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0539 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS21

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:
WS21
Sample Depth:
0.5 m
Moisture content:
12%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

R50/53 "Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinands:

dicopper oxide; copper (I) oxide: (compound conc.: 0.146%)
lead compounds with the exception of those specified elsewhere in this Annex: (Note 1 conc.: 0.11%)
zinc chloride: (compound conc.: 0.192%)

Determinands

Moisture content: 12% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		46 mg/kg	1.32	60.735 mg/kg	0.00607 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		28 mg/kg	1.46	40.924 mg/kg	0.00409 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		1300 mg/kg	1.13	1463.655 mg/kg	0.146 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	1100 mg/kg		1100 mg/kg	0.11 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		41 mg/kg	2.98	122.027 mg/kg	0.0122 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
10		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<**LOD**
		034-002-00-8											
11		zinc { zinc chloride }				920	mg/kg	2.08	1917.76	mg/kg	0.192 %		
		030-003-00-2	231-592-0	7646-85-7									
12		TPH (C6 to C40) petroleum group				120	mg/kg		120	mg/kg	0.012 %		
				TPH									
13		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
14		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
15		naphthalene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17		acenaphthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-469-6	83-32-9									
18		fluorene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-695-5	86-73-7									
19		phenanthrene				2.2	mg/kg		2.2	mg/kg	0.00022 %		
			201-581-5	85-01-8									
20		anthracene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			204-371-1	120-12-7									
21		fluoranthene				2.7	mg/kg		2.7	mg/kg	0.00027 %		
			205-912-4	206-44-0									
22		pyrene				2.3	mg/kg		2.3	mg/kg	0.00023 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				1.3	mg/kg		1.3	mg/kg	0.00013 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.486 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: TP14

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
TP14
Sample Depth:
0.3-0.5 m
Moisture content:
17%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		18 mg/kg	1.32	23.766 mg/kg	0.00238 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		33 mg/kg	1.46	48.231 mg/kg	0.00482 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		69 mg/kg	1.13	77.686 mg/kg	0.00777 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	130 mg/kg		130 mg/kg	0.013 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		31 mg/kg	2.98	92.264 mg/kg	0.00923 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		130 mg/kg	2.08	270.988 mg/kg	0.0271 %		
12	TPH (C6 to C40) petroleum group			TPH		17 mg/kg		17 mg/kg	0.0017 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				7.6	pH		7.6	pH	7.6 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			205-912-4	206-44-0									
27		pyrene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0.001	mg/kg		<0.0007	mg/kg	<0.00000007 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.068 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: TP14[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
TP14[1]
Sample Depth:
1.7-1.9 m
Moisture content:
25%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 25% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		75 mg/kg	1.32	99.024 mg/kg	0.0099 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		16 mg/kg	1.46	23.385 mg/kg	0.00234 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		35 mg/kg	1.13	39.406 mg/kg	0.00394 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	130 mg/kg		130 mg/kg	0.013 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19 mg/kg	2.98	56.549 mg/kg	0.00565 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		62 mg/kg	2.08	129.24 mg/kg	0.0129 %		
12	TPH (C6 to C40) petroleum group			TPH		1 mg/kg		1 mg/kg	0.0001 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0497 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: TP14[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
TP14[2]
Sample Depth:
2.6-2.8 m
Moisture content:
31%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 31% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		25	mg/kg	1.32	33.008	mg/kg	0.0033 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		14	mg/kg	1.46	20.462	mg/kg	0.00205 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		58	mg/kg	1.13	65.302	mg/kg	0.00653 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	160	mg/kg		160	mg/kg	0.016 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		16	mg/kg	2.98	47.62	mg/kg	0.00476 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		61	mg/kg	2.08	127.156	mg/kg	0.0127 %		
12	TPH (C6 to C40) petroleum group			TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				0.01	mg/kg		0.01	mg/kg	0.000001 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0473 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS14[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS14[1]
Sample Depth:
1.2-1.67 m
Moisture content:
22%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14	mg/kg	1.32	18.485	mg/kg	0.00185 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		26	mg/kg	1.46	38.00045	mg/kg	0.0038 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15	mg/kg	1.13	16.888	mg/kg	0.00169 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	24	mg/kg		24	mg/kg	0.0024 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26	mg/kg	2.98	77.383	mg/kg	0.00774 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		64	mg/kg	2.08	133.409	mg/kg	0.0133 %		
12	TPH (C6 to C40) petroleum group			TPH		2	mg/kg		2	mg/kg	0.0002 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				0.015	mg/kg		0.015	mg/kg	0.0000015 %		
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				0.027	mg/kg		0.027	mg/kg	0.0000027 %		
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				7.2	pH		7.2	pH	7.2 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0329 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT35

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SCPT35
Sample Depth:
0.5 m
Moisture content:
8.3%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 8.3% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17 mg/kg	1.32	22.446 mg/kg	0.00224 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		23 mg/kg	1.46	33.616 mg/kg	0.00336 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		22 mg/kg	1.13	24.77 mg/kg	0.00248 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	91 mg/kg		91 mg/kg	0.0091 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		16 mg/kg	2.98	47.62 mg/kg	0.00476 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		79 mg/kg	2.08	164.677 mg/kg	0.0165 %		
12	TPH (C6 to C40) petroleum group			TPH		10 mg/kg		10 mg/kg	0.001 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-912-4	206-44-0									
22	●	pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0413 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS05

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS05
Sample Depth:
1.2-2 m
Moisture content:
18%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 18% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		21 mg/kg	1.46	30.693 mg/kg	0.00307 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12 mg/kg	1.13	13.511 mg/kg	0.00135 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	15 mg/kg		15 mg/kg	0.0015 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21 mg/kg	2.98	62.502 mg/kg	0.00625 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		58 mg/kg	2.08	120.902 mg/kg	0.0121 %		
12	TPH (C6 to C40) petroleum group			TPH		4 mg/kg		4 mg/kg	0.0004 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.028 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: SCPT24A

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:	LoW Code:	
SCPT24A	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.5 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
Moisture content:		
12% (no correction)		

Hazard properties

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.18%)

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350i "May cause cancer by inhalation."

Because of determinand:

nickel chromate: (compound conc.: 0.804%)

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.18%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.18%)

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

R52/53 "Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinand:

benzo[a]anthracene: (conc.: 0.0025%)

R50/53 "Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinands:

chromium(III) oxide: (compound conc.: 0.161%)
nickel chromate: (compound conc.: 0.804%)

R51/53 "Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.18%)

Determinands

Moisture content: 12% No Moisture Correction applied (MC)

#		Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number							
1		arsenic { arsenic trioxide } 033-003-00-0 / 215-481-4 / 1327-53-3		97 mg/kg	1.32	128.072 mg/kg	0.0128 %		
2		boron { diboron trioxide; boric oxide } 005-008-00-8 / 215-125-8 / 1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3		cadmium { cadmium oxide } 048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4		chromium in chromium(III) compounds { chromium(III) oxide } / 215-160-9 / 1308-38-9		1100 mg/kg	1.46	1607.711 mg/kg	0.161 %		
5		chromium in chromium(VI) compounds { chromium(VI) oxide } 024-001-00-0 / 215-607-8 / 1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6		copper { dicopper oxide; copper (I) oxide } 029-002-00-X / 215-270-7 / 1317-39-1		810 mg/kg	1.13	911.97 mg/kg	0.0912 %		
7		lead { lead compounds with the exception of those specified elsewhere in this Annex } 082-001-00-6	1	790 mg/kg		790 mg/kg	0.079 %		
8		mercury { mercury dichloride } 080-010-00-X / 231-299-8 / 7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9		nickel { nickel chromate } 028-035-00-7 / 238-766-5 / 14721-18-7		2700 mg/kg	2.98	8035.915 mg/kg	0.804 %		
10		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex } 034-002-00-8		<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11		zinc { zinc chloride } 030-003-00-2 / 231-592-0 / 7646-85-7		350 mg/kg	2.08	729.582 mg/kg	0.073 %		
12		TPH (C6 to C40) petroleum group / / TPH		1800 mg/kg		1800 mg/kg	0.18 %		
13		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5		<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**
14		pH / / PH		7.7 pH		7.7 pH	7.7 pH		
15		naphthalene 601-052-00-2 / 202-049-5 / 91-20-3		0.3 mg/kg		0.3 mg/kg	0.00003 %		
16		acenaphthylene / 205-917-1 / 208-96-8		0.2 mg/kg		0.2 mg/kg	0.00002 %		
17		acenaphthene / 201-469-6 / 83-32-9		1.9 mg/kg		1.9 mg/kg	0.00019 %		
18		fluorene / 201-695-5 / 86-73-7		2.3 mg/kg		2.3 mg/kg	0.00023 %		
19		phenanthrene / 201-581-5 / 85-01-8		32 mg/kg		32 mg/kg	0.0032 %		
20		anthracene / 204-371-1 / 120-12-7		13 mg/kg		13 mg/kg	0.0013 %		
21		fluoranthene / 205-912-4 / 206-44-0		66 mg/kg		66 mg/kg	0.0066 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
22		pyrene				60	mg/kg		60	mg/kg	0.006 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				25	mg/kg		25	mg/kg	0.0025 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				22	mg/kg		22	mg/kg	0.0022 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				13	mg/kg		13	mg/kg	0.0013 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				15	mg/kg		15	mg/kg	0.0015 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				14	mg/kg		14	mg/kg	0.0014 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				5.1	mg/kg		5.1	mg/kg	0.00051 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				5.4	mg/kg		5.4	mg/kg	0.00054 %		
			205-883-8	191-24-2									
31		phenol				0.16	mg/kg		0.16	mg/kg	0.000016 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	1.43 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH35[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH35[2]
Sample Depth:
5.8 m
Moisture content:
22%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		33 mg/kg	1.46	48.231 mg/kg	0.00482 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.13	14.637 mg/kg	0.00146 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	16 mg/kg		16 mg/kg	0.0016 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23 mg/kg	2.98	68.454 mg/kg	0.00685 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		61 mg/kg	2.08	127.156 mg/kg	0.0127 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0309 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH36[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH36[2]
Sample Depth:
7.1 m
Moisture content:
27%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 27% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14 mg/kg	1.32	18.485 mg/kg	0.00185 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		18 mg/kg	3.22	57.958 mg/kg	0.0058 %		
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		31 mg/kg	1.46	45.308 mg/kg	0.00453 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14 mg/kg	1.13	15.762 mg/kg	0.00158 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	15 mg/kg		15 mg/kg	0.0015 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22 mg/kg	2.98	65.478 mg/kg	0.00655 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		59 mg/kg	2.08	122.987 mg/kg	0.0123 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0358 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH19A[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH19A[2]
Sample Depth:
4.2 m
Moisture content:
26%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 26% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		22 mg/kg	1.46	32.154 mg/kg	0.00322 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14 mg/kg	1.13	15.762 mg/kg	0.00158 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	15 mg/kg		15 mg/kg	0.0015 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23 mg/kg	2.98	68.454 mg/kg	0.00685 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		62 mg/kg	2.08	129.24 mg/kg	0.0129 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8	pH		8	pH	8pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0294 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH19A[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH19A[3]
Sample Depth:
8.2 m
Moisture content:
30%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 30% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	arsenic { arsenic trioxide }		15 mg/kg	1.32	19.805 mg/kg	0.00198 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
2	boron { diboron trioxide; boric oxide }		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
	005-008-00-8 / 215-125-8 / 1303-86-2							
3	cadmium { cadmium oxide }		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
	048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]							
4	chromium in chromium(III) compounds { chromium(III) oxide }		19 mg/kg	1.46	27.77 mg/kg	0.00278 %		
	/ 215-160-9 / 1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
	024-001-00-0 / 215-607-8 / 1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }		12 mg/kg	1.13	13.511 mg/kg	0.00135 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	1	12 mg/kg		12 mg/kg	0.0012 %		
	082-001-00-6 / /							
8	mercury { mercury dichloride }		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
	080-010-00-X / 231-299-8 / 7487-94-7							
9	nickel { nickel chromate }		20 mg/kg	2.98	59.525 mg/kg	0.00595 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }		<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
	034-002-00-8 / /							
11	zinc { zinc chloride }		55 mg/kg	2.08	114.649 mg/kg	0.0115 %		
	030-003-00-2 / 231-592-0 / 7646-85-7							
12	TPH (C6 to C40) petroleum group		15 mg/kg		15 mg/kg	0.0015 %		
	/ / TPH							
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,		<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0281 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH33[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH33[1]
Sample Depth:
2 m
Moisture content:
16%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 16% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13 mg/kg	1.32	17.164 mg/kg	0.00172 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		31 mg/kg	1.46	45.308 mg/kg	0.00453 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		37 mg/kg	1.13	41.658 mg/kg	0.00417 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	81 mg/kg		81 mg/kg	0.0081 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		30 mg/kg	2.98	89.288 mg/kg	0.00893 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		110 mg/kg	2.08	229.297 mg/kg	0.0229 %		
12	TPH (C6 to C40) petroleum group			TPH		1 mg/kg		1 mg/kg	0.0001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
			201-581-5	85-01-8									
25		anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-371-1	120-12-7									
26		fluoranthene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
			205-912-4	206-44-0									
27		pyrene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0528 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH33[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH33[2]
Sample Depth:
5 m
Moisture content:
24%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 24% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8 mg/kg	1.32	10.563 mg/kg	0.00106 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		17 mg/kg	1.46	24.846 mg/kg	0.00248 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12 mg/kg	1.13	13.511 mg/kg	0.00135 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	12 mg/kg		12 mg/kg	0.0012 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19 mg/kg	2.98	56.549 mg/kg	0.00565 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		51 mg/kg	2.08	106.311 mg/kg	0.0106 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0244 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH33[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH33[3]
Sample Depth:
7 m
Moisture content:
30%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 30% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8 mg/kg	1.32	10.563 mg/kg	0.00106 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		17 mg/kg	1.46	24.846 mg/kg	0.00248 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		10 mg/kg	1.13	11.259 mg/kg	0.00113 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	10 mg/kg		10 mg/kg	0.001 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		16 mg/kg	2.98	47.62 mg/kg	0.00476 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		45 mg/kg	2.08	93.803 mg/kg	0.00938 %		
12	TPH (C6 to C40) petroleum group			TPH		3 mg/kg		3 mg/kg	0.0003 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.022 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH37[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH37[3]
Sample Depth:
6.5 m
Moisture content:
28%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 28% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		20 mg/kg	1.46	29.231 mg/kg	0.00292 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14 mg/kg	1.13	15.762 mg/kg	0.00158 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	25 mg/kg		25 mg/kg	0.0025 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22 mg/kg	2.98	65.478 mg/kg	0.00655 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		62 mg/kg	2.08	129.24 mg/kg	0.0129 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.03 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH22[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH22[2]
Sample Depth:
2.9 m
Moisture content:
29%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 29% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		19 mg/kg	1.46	27.77 mg/kg	0.00278 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		27 mg/kg	1.13	30.399 mg/kg	0.00304 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	24 mg/kg		24 mg/kg	0.0024 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19 mg/kg	2.98	56.549 mg/kg	0.00565 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		58 mg/kg	2.08	120.902 mg/kg	0.0121 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0293 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH11[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH11[1]
Sample Depth:
5.2 m
Moisture content:
26%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 26% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9	mg/kg	1.32	11.883	mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		15	mg/kg	1.46	21.923	mg/kg	0.00219 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		10	mg/kg	1.13	11.259	mg/kg	0.00113 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	11	mg/kg		11	mg/kg	0.0011 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17	mg/kg	2.98	50.597	mg/kg	0.00506 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		47	mg/kg	2.08	97.972	mg/kg	0.0098 %		
12	TPH (C6 to C40) petroleum group			TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0224 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH11[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH11[2]
Sample Depth:
3 m
Moisture content:
29%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 29% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		26 mg/kg	1.46	38.00045 mg/kg	0.0038 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.13	14.637 mg/kg	0.00146 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	17 mg/kg		17 mg/kg	0.0017 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		24 mg/kg	2.98	71.43 mg/kg	0.00714 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		63 mg/kg	2.08	131.325 mg/kg	0.0131 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0305 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH02[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH02[2]
Sample Depth:
2.8 m
Moisture content:
27%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 27% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		18 mg/kg	1.46	26.308 mg/kg	0.00263 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.13	14.637 mg/kg	0.00146 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	14 mg/kg		14 mg/kg	0.0014 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21 mg/kg	2.98	62.502 mg/kg	0.00625 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		62 mg/kg	2.08	129.24 mg/kg	0.0129 %		
12	TPH (C6 to C40) petroleum group			TPH		<14.6 mg/kg		<14.6 mg/kg	<0.00146 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0296 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH02[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH02[3]
Sample Depth:
4.7 m
Moisture content:
27%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 27% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		15 mg/kg	1.46	21.923 mg/kg	0.00219 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11 mg/kg	1.13	12.385 mg/kg	0.00124 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	11 mg/kg		11 mg/kg	0.0011 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17 mg/kg	2.98	50.597 mg/kg	0.00506 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		47 mg/kg	2.08	97.972 mg/kg	0.0098 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.3	pH		7.3	pH	7.3 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0226 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH04[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH04[3]
Sample Depth:
5.4 m
Moisture content:
32%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 32% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		18 mg/kg	1.46	26.308 mg/kg	0.00263 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12 mg/kg	1.13	13.511 mg/kg	0.00135 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	12 mg/kg		12 mg/kg	0.0012 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20 mg/kg	2.98	59.525 mg/kg	0.00595 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		40 mg/kg	2.08	83.381 mg/kg	0.00834 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0226 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH40A[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH40A[3]
Sample Depth:
10.7 m
Moisture content:
21%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 21% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7 mg/kg	1.32	9.242 mg/kg	0.000924 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		7 mg/kg	3.22	22.539 mg/kg	0.00225 %		
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		18 mg/kg	1.46	26.308 mg/kg	0.00263 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12 mg/kg	1.13	13.511 mg/kg	0.00135 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	12 mg/kg		12 mg/kg	0.0012 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19 mg/kg	2.98	56.549 mg/kg	0.00565 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		49 mg/kg	2.08	102.142 mg/kg	0.0102 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.7	pH		8.7	pH	8.7 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0259 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH07[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH07[2]
Sample Depth:
8.5 m
Moisture content:
31%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 31% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		2 mg/kg	3.22	6.44 mg/kg	0.000644 %		
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		20 mg/kg	1.46	29.231 mg/kg	0.00292 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12 mg/kg	1.13	13.511 mg/kg	0.00135 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	12 mg/kg		12 mg/kg	0.0012 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20 mg/kg	2.98	59.525 mg/kg	0.00595 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		52 mg/kg	2.08	108.395 mg/kg	0.0108 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0258 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH03[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH03[2]
Sample Depth:
4.5 m
Moisture content:
29%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 29% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		15 mg/kg	1.46	21.923 mg/kg	0.00219 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		9 mg/kg	1.13	10.133 mg/kg	0.00101 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	10 mg/kg		10 mg/kg	0.001 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		15 mg/kg	2.98	44.644 mg/kg	0.00446 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		40 mg/kg	2.08	83.381 mg/kg	0.00834 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8	pH		8	pH	8pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				0.02	mg/kg		0.02	mg/kg	0.000002 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0202 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH01[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH01[1]
Sample Depth:
2 m
Moisture content:
25%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 25% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		21 mg/kg	1.32	27.727 mg/kg	0.00277 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		26 mg/kg	1.46	38.00045 mg/kg	0.0038 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		19 mg/kg	1.13	21.392 mg/kg	0.00214 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	34 mg/kg		34 mg/kg	0.0034 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		28 mg/kg	2.98	83.335 mg/kg	0.00833 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		80 mg/kg	2.08	166.762 mg/kg	0.0167 %		
12	TPH (C6 to C40) petroleum group			TPH		31 mg/kg		31 mg/kg	0.0031 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0421 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH01[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH01[2]
Sample Depth:
7 m
Moisture content:
54%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 54% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		19 mg/kg	1.32	25.086 mg/kg	0.00251 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		7 mg/kg	3.22	22.539 mg/kg	0.00225 %		
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		28 mg/kg	1.46	40.924 mg/kg	0.00409 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17 mg/kg	1.13	19.14 mg/kg	0.00191 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	23 mg/kg		23 mg/kg	0.0023 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		36 mg/kg	2.98	107.146 mg/kg	0.0107 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		58 mg/kg	2.08	120.902 mg/kg	0.0121 %		
12	TPH (C6 to C40) petroleum group			TPH		25 mg/kg		25 mg/kg	0.0025 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0399 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH09[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH09[1]
Sample Depth:
4.4 m
Moisture content:
29%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 29% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		22 mg/kg	1.46	32.154 mg/kg	0.00322 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.13	14.637 mg/kg	0.00146 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	13 mg/kg		13 mg/kg	0.0013 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23 mg/kg	2.98	68.454 mg/kg	0.00685 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		57 mg/kg	2.08	118.818 mg/kg	0.0119 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0279 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH09[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH09[2]
Sample Depth:
8 m
Moisture content:
31%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 31% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1 mg/kg	3.22	3.22 mg/kg	0.000322 %		
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		21 mg/kg	1.46	30.693 mg/kg	0.00307 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12 mg/kg	1.13	13.511 mg/kg	0.00135 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	13 mg/kg		13 mg/kg	0.0013 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23 mg/kg	2.98	68.454 mg/kg	0.00685 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		55 mg/kg	2.08	114.649 mg/kg	0.0115 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<**LOD**
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0272 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH45[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH45[3]
Sample Depth:
5 m
Moisture content:
26%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 26% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		21 mg/kg	1.46	30.693 mg/kg	0.00307 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17 mg/kg	1.13	19.14 mg/kg	0.00191 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	22 mg/kg		22 mg/kg	0.0022 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23 mg/kg	2.98	68.454 mg/kg	0.00685 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		58 mg/kg	2.08	120.902 mg/kg	0.0121 %		
12	TPH (C6 to C40) petroleum group			TPH		2 mg/kg		2 mg/kg	0.0002 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0295 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH17[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH17[2]
Sample Depth:
4.6 m
Moisture content:
30%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 30% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		24 mg/kg	1.46	35.077 mg/kg	0.00351 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16 mg/kg	1.13	18.014 mg/kg	0.0018 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	16 mg/kg		16 mg/kg	0.0016 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		24 mg/kg	2.98	71.43 mg/kg	0.00714 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		65 mg/kg	2.08	135.494 mg/kg	0.0135 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8	pH		8	pH	8pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0312 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH17[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH17[3]
Sample Depth:
7.8 m
Moisture content:
30%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 30% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		19 mg/kg	1.46	27.77 mg/kg	0.00278 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11 mg/kg	1.13	12.385 mg/kg	0.00124 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	12 mg/kg		12 mg/kg	0.0012 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20 mg/kg	2.98	59.525 mg/kg	0.00595 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		51 mg/kg	2.08	106.311 mg/kg	0.0106 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.025 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: SBP03

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
SBP03
Sample Depth:
0.15-0.5 m
Moisture content:
11%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		3 mg/kg	1.32	3.961 mg/kg	0.000396 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		6 mg/kg	1.46	8.769 mg/kg	0.000877 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		5 mg/kg	1.13	5.629 mg/kg	0.000563 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	18 mg/kg		18 mg/kg	0.0018 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		5 mg/kg	2.98	14.881 mg/kg	0.00149 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		39 mg/kg	2.08	81.296 mg/kg	0.00813 %		
12	TPH (C6 to C40) petroleum group			TPH		19 mg/kg		19 mg/kg	0.0019 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			201-581-5	85-01-8									
25		anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-371-1	120-12-7									
26		fluoranthene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
			205-912-4	206-44-0									
27		pyrene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			204-927-3	129-00-0									
28		benzo[a]anthracene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0173 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH06[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH06[3]
Sample Depth:
3 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
								Total:	0%		

Key

	User supplied data
●	Determinand defined or amended by HazWasteOnline (see Appendix A)

Classification of sample: BH43[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH43[2]
Sample Depth:
4.5 m
Moisture content:
25%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 25% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		23 mg/kg	1.46	33.616 mg/kg	0.00336 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15 mg/kg	1.13	16.888 mg/kg	0.00169 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	15 mg/kg		15 mg/kg	0.0015 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23 mg/kg	2.98	68.454 mg/kg	0.00685 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		59 mg/kg	2.08	122.987 mg/kg	0.0123 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0289 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH43[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH43[3]
Sample Depth:
7 m
Moisture content:
29%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 29% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		21 mg/kg	1.46	30.693 mg/kg	0.00307 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14 mg/kg	1.13	15.762 mg/kg	0.00158 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	13 mg/kg		13 mg/kg	0.0013 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22 mg/kg	2.98	65.478 mg/kg	0.00655 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		58 mg/kg	2.08	120.902 mg/kg	0.0121 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.6	pH		7.6	pH	7.6 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0279 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH08[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH08[1]
Sample Depth:
1.5 m
Moisture content:
25%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 25% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		23 mg/kg	1.46	33.616 mg/kg	0.00336 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12 mg/kg	1.13	13.511 mg/kg	0.00135 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	13 mg/kg		13 mg/kg	0.0013 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22 mg/kg	2.98	65.478 mg/kg	0.00655 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		56 mg/kg	2.08	116.733 mg/kg	0.0117 %		
12	TPH (C6 to C40) petroleum group			TPH		<14.6 mg/kg		<14.6 mg/kg	<0.00146 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0	mg/kg		<0.00035	mg/kg	<0.000000035 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0288 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH08[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH08[2]
Sample Depth:
4 m
Moisture content:
28%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 28% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		18 mg/kg	1.46	26.308 mg/kg	0.00263 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11 mg/kg	1.13	12.385 mg/kg	0.00124 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	11 mg/kg		11 mg/kg	0.0011 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18 mg/kg	2.98	53.573 mg/kg	0.00536 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		45 mg/kg	2.08	93.803 mg/kg	0.00938 %		
12	TPH (C6 to C40) petroleum group			TPH		1 mg/kg		1 mg/kg	0.0001 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0229 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH05[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH05[2]
Sample Depth:
4.2 m
Moisture content:
29%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 29% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9	mg/kg	1.32	11.883	mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		19	mg/kg	1.46	27.77	mg/kg	0.00278 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12	mg/kg	1.13	13.511	mg/kg	0.00135 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	12	mg/kg		12	mg/kg	0.0012 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19	mg/kg	2.98	56.549	mg/kg	0.00565 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		48	mg/kg	2.08	100.057	mg/kg	0.01 %		
12	TPH (C6 to C40) petroleum group			TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0242 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH29[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH29[2]
Sample Depth:
4 m
Moisture content:
22%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9	mg/kg	1.32	11.883	mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		23	mg/kg	1.46	33.616	mg/kg	0.00336 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13	mg/kg	1.13	14.637	mg/kg	0.00146 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	14	mg/kg		14	mg/kg	0.0014 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20	mg/kg	2.98	59.525	mg/kg	0.00595 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		53	mg/kg	2.08	110.48	mg/kg	0.011 %		
12	TPH (C6 to C40) petroleum group			TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0264 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH10

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH10
Sample Depth:
1.5 m
Moisture content:
22%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13 mg/kg	1.32	17.164 mg/kg	0.00172 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		24 mg/kg	1.46	35.077 mg/kg	0.00351 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17 mg/kg	1.13	19.14 mg/kg	0.00191 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	22 mg/kg		22 mg/kg	0.0022 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		28 mg/kg	2.98	83.335 mg/kg	0.00833 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		73 mg/kg	2.08	152.17 mg/kg	0.0152 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0349 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH10[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH10[1]
Sample Depth:
7.5 m
Moisture content:
30%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 30% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10	mg/kg	1.32	13.203	mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		20	mg/kg	1.46	29.231	mg/kg	0.00292 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15	mg/kg	1.13	16.888	mg/kg	0.00169 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	21	mg/kg		21	mg/kg	0.0021 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21	mg/kg	2.98	62.502	mg/kg	0.00625 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		70	mg/kg	2.08	145.916	mg/kg	0.0146 %		
12	TPH (C6 to C40) petroleum group			TPH		4	mg/kg		4	mg/kg	0.0004 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-912-4	206-44-0									
22		pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0312 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS07

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS07
Sample Depth:
1 m
Moisture content:
20%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 20% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		25 mg/kg	1.46	36.539 mg/kg	0.00365 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17 mg/kg	1.13	19.14 mg/kg	0.00191 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	24 mg/kg		24 mg/kg	0.0024 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27 mg/kg	2.98	80.359 mg/kg	0.00804 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		79 mg/kg	2.08	164.677 mg/kg	0.0165 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0359 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS06[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS06[1]
Sample Depth:
1 m
Moisture content:
21%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 21% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		18 mg/kg	1.32	23.766 mg/kg	0.00238 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		24 mg/kg	1.46	35.077 mg/kg	0.00351 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		24 mg/kg	1.13	27.021 mg/kg	0.0027 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	200 mg/kg		200 mg/kg	0.02 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		28 mg/kg	2.98	83.335 mg/kg	0.00833 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		86 mg/kg	2.08	179.269 mg/kg	0.0179 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8	pH		8	pH	8pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
			205-912-4	206-44-0									
22		pyrene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.057 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH24[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH24[2]
Sample Depth:
4.8 m
Moisture content:
27%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 27% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8	mg/kg	1.32	10.563	mg/kg	0.00106 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		15	mg/kg	1.46	21.923	mg/kg	0.00219 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		10	mg/kg	1.13	11.259	mg/kg	0.00113 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	11	mg/kg		11	mg/kg	0.0011 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		16	mg/kg	2.98	47.62	mg/kg	0.00476 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		44	mg/kg	2.08	91.719	mg/kg	0.00917 %		
12	TPH (C6 to C40) petroleum group			TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0214 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH24[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH24[3]
Sample Depth:
8 m
Moisture content:
28%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 28% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8	mg/kg	1.32	10.563	mg/kg	0.00106 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		18	mg/kg	1.46	26.308	mg/kg	0.00263 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11	mg/kg	1.13	12.385	mg/kg	0.00124 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	12	mg/kg		12	mg/kg	0.0012 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17	mg/kg	2.98	50.597	mg/kg	0.00506 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		50	mg/kg	2.08	104.226	mg/kg	0.0104 %		
12	TPH (C6 to C40) petroleum group			TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0236 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS07[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS07[1]
Sample Depth:
2.0-2.5 m
Moisture content:
28%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 28% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13	mg/kg	1.32	17.164	mg/kg	0.00172 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		17	mg/kg	1.46	24.846	mg/kg	0.00248 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11	mg/kg	1.13	12.385	mg/kg	0.00124 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	12	mg/kg		12	mg/kg	0.0012 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19	mg/kg	2.98	56.549	mg/kg	0.00565 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		56	mg/kg	2.08	116.733	mg/kg	0.0117 %		
12	TPH (C6 to C40) petroleum group			TPH		10	mg/kg		10	mg/kg	0.001 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.6	pH		7.6	pH	7.6 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0268 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH16A[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH16A[2]
Sample Depth:
3.5 m
Moisture content:
25%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 25% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		17 mg/kg	1.46	24.846 mg/kg	0.00248 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12 mg/kg	1.13	13.511 mg/kg	0.00135 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	12 mg/kg		12 mg/kg	0.0012 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19 mg/kg	2.98	56.549 mg/kg	0.00565 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		51 mg/kg	2.08	106.311 mg/kg	0.0106 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0248 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH16A[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH16A[3]
Sample Depth:
8 m
Moisture content:
28%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 28% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	arsenic { arsenic trioxide }		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
2	boron { diboron trioxide; boric oxide }		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
	005-008-00-8 / 215-125-8 / 1303-86-2							
3	cadmium { cadmium oxide }		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
	048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]							
4	chromium in chromium(III) compounds { chromium(III) oxide }		17 mg/kg	1.46	24.846 mg/kg	0.00248 %		
	/ 215-160-9 / 1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
	024-001-00-0 / 215-607-8 / 1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }		12 mg/kg	1.13	13.511 mg/kg	0.00135 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	1	12 mg/kg		12 mg/kg	0.0012 %		
	082-001-00-6 / /							
8	mercury { mercury dichloride }		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
	080-010-00-X / 231-299-8 / 7487-94-7							
9	nickel { nickel chromate }		19 mg/kg	2.98	56.549 mg/kg	0.00565 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }		<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
	034-002-00-8 / /							
11	zinc { zinc chloride }		55 mg/kg	2.08	114.649 mg/kg	0.0115 %		
	030-003-00-2 / 231-592-0 / 7646-85-7							
12	TPH (C6 to C40) petroleum group		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	/ / TPH							
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,		<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0253 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS09[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS09[1]
Sample Depth:
2.0-2.2 m
Moisture content:
24%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 24% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16	mg/kg	1.32	21.125	mg/kg	0.00211 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		3	mg/kg	3.22	9.66	mg/kg	0.000966 %		
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		25	mg/kg	1.46	36.539	mg/kg	0.00365 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		60	mg/kg	1.13	67.553	mg/kg	0.00676 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	75	mg/kg		75	mg/kg	0.0075 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27	mg/kg	2.98	80.359	mg/kg	0.00804 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		88	mg/kg	2.08	183.438	mg/kg	0.0183 %		
12	TPH (C6 to C40) petroleum group			TPH		8	mg/kg		8	mg/kg	0.0008 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.8	pH		8.8	pH	8.8 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				0.01	mg/kg		0.01	mg/kg	0.000001 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0497 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH25[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH25[2]
Sample Depth:
4 m
Moisture content:
29%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 29% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		24 mg/kg	1.46	35.077 mg/kg	0.00351 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16 mg/kg	1.13	18.014 mg/kg	0.0018 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	22 mg/kg		22 mg/kg	0.0022 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22 mg/kg	2.98	65.478 mg/kg	0.00655 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		68 mg/kg	2.08	141.747 mg/kg	0.0142 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.6	pH		7.6	pH	7.6 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				0.01	mg/kg		0.01	mg/kg	0.000001 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0314 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH25[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH25[3]
Sample Depth:
7 m
Moisture content:
28%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 28% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8 mg/kg	1.32	10.563 mg/kg	0.00106 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		17 mg/kg	1.46	24.846 mg/kg	0.00248 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		10 mg/kg	1.13	11.259 mg/kg	0.00113 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	11 mg/kg		11 mg/kg	0.0011 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17 mg/kg	2.98	50.597 mg/kg	0.00506 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		42 mg/kg	2.08	87.55 mg/kg	0.00875 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0216 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH30[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH30[1]
Sample Depth:
7 m
Moisture content:
29%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 29% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8	mg/kg	1.32	10.563	mg/kg	0.00106 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		18	mg/kg	1.46	26.308	mg/kg	0.00263 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		10	mg/kg	1.13	11.259	mg/kg	0.00113 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	12	mg/kg		12	mg/kg	0.0012 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18	mg/kg	2.98	53.573	mg/kg	0.00536 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		50	mg/kg	2.08	104.226	mg/kg	0.0104 %		
12	TPH (C6 to C40) petroleum group			TPH		0.12	mg/kg		0.12	mg/kg	0.000012 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				0.073	mg/kg		0.073	mg/kg	0.0000073 %		
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				0.081	mg/kg		0.081	mg/kg	0.0000081 %		
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0237 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS12A[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS12A[1]
Sample Depth:
4.5-5.0 m
Moisture content:
28%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 28% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16 mg/kg	1.32	21.125 mg/kg	0.00211 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		30 mg/kg	1.46	43.847 mg/kg	0.00438 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		21 mg/kg	1.13	23.644 mg/kg	0.00236 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	42 mg/kg		42 mg/kg	0.0042 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26 mg/kg	2.98	77.383 mg/kg	0.00774 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		69 mg/kg	2.08	143.832 mg/kg	0.0144 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0372 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS01[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS01[2]
Sample Depth:
2.5-3.0 m
Moisture content:
24%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 24% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13 mg/kg	1.32	17.164 mg/kg	0.00172 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		25 mg/kg	1.46	36.539 mg/kg	0.00365 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15 mg/kg	1.13	16.888 mg/kg	0.00169 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	19 mg/kg		19 mg/kg	0.0019 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23 mg/kg	2.98	68.454 mg/kg	0.00685 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		66 mg/kg	2.08	137.578 mg/kg	0.0138 %		
12	TPH (C6 to C40) petroleum group			TPH		10 mg/kg		10 mg/kg	0.001 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0324 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS02[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS02[1]
Sample Depth:
4.5-5.0 m
Moisture content:
28%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 28% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	arsenic { arsenic trioxide }		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
2	boron { diboron trioxide; boric oxide }		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
	005-008-00-8 / 215-125-8 / 1303-86-2							
3	cadmium { cadmium oxide }		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
	048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]							
4	chromium in chromium(III) compounds { chromium(III) oxide }		27 mg/kg	1.46	39.462 mg/kg	0.00395 %		
	/ 215-160-9 / 1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
	024-001-00-0 / 215-607-8 / 1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }		15 mg/kg	1.13	16.888 mg/kg	0.00169 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	1	17 mg/kg		17 mg/kg	0.0017 %		
	082-001-00-6							
8	mercury { mercury dichloride }		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
	080-010-00-X / 231-299-8 / 7487-94-7							
9	nickel { nickel chromate }		27 mg/kg	2.98	80.359 mg/kg	0.00804 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }		<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
	034-002-00-8							
11	zinc { zinc chloride }		69 mg/kg	2.08	143.832 mg/kg	0.0144 %		
	030-003-00-2 / 231-592-0 / 7646-85-7							
12	TPH (C6 to C40) petroleum group		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
	/ / TPH							
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,		<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19	●	phenanthrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21	●	fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-912-4	206-44-0									
22	●	pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				1	mg/kg		1	mg/kg	0.0001 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-883-8	191-24-2									
31		phenol				0.21	mg/kg		0.21	mg/kg	0.000021 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0336 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH30A

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH30A
Sample Depth:
10 m
Moisture content:
23%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 23% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		17 mg/kg	1.46	24.846 mg/kg	0.00248 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		10 mg/kg	1.13	11.259 mg/kg	0.00113 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	12 mg/kg		12 mg/kg	0.0012 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17 mg/kg	2.98	50.597 mg/kg	0.00506 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		47 mg/kg	2.08	97.972 mg/kg	0.0098 %		
12	TPH (C6 to C40) petroleum group			TPH		9 mg/kg		9 mg/kg	0.0009 %		

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
14		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
15		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
16		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
17		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
19		pH			PH		8.3	pH		8.3	pH	8.3 pH		
20		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
21		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
22		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
23		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
24		phenanthrene		201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
25		anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
26		fluoranthene		205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
27		pyrene		204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
28		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
29		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
30		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
31		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
32		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
33		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
34		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
35		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
36		phenol	604-001-00-2	203-632-7	108-95-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
37		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP	607-317-00-9	204-211-0	117-81-7		0.2	mg/kg		0.2	mg/kg	0.00002 %		
38		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]	612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]		0.6	mg/kg		0.6	mg/kg	0.00006 %		

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
								Total:	0.0237 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH30A[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH30A[1]
Sample Depth:
10.7 m
Moisture content:
26%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 26% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9	mg/kg	1.32	11.883	mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		17	mg/kg	1.46	24.846	mg/kg	0.00248 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		10	mg/kg	1.13	11.259	mg/kg	0.00113 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	11	mg/kg		11	mg/kg	0.0011 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17	mg/kg	2.98	50.597	mg/kg	0.00506 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		49	mg/kg	2.08	102.142	mg/kg	0.0102 %		
12	TPH (C6 to C40) petroleum group			TPH		3	mg/kg		3	mg/kg	0.0003 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
37		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		607-317-00-9	204-211-0	117-81-7									
38		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
								Total:	0.0235 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH27[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH27[2]
Sample Depth:
5.5 m
Moisture content:
26%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 26% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		22 mg/kg	1.46	32.154 mg/kg	0.00322 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.13	14.637 mg/kg	0.00146 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	14 mg/kg		14 mg/kg	0.0014 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22 mg/kg	2.98	65.478 mg/kg	0.00655 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		57 mg/kg	2.08	118.818 mg/kg	0.0119 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0278 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS03[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS03[1]
Sample Depth:
4.8-5.0 m
Moisture content:
25%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 25% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		18 mg/kg	1.46	26.308 mg/kg	0.00263 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11 mg/kg	1.13	12.385 mg/kg	0.00124 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	11 mg/kg		11 mg/kg	0.0011 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18 mg/kg	2.98	53.573 mg/kg	0.00536 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		47 mg/kg	2.08	97.972 mg/kg	0.0098 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0234 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS10A[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS10A[2]
Sample Depth:
3.7-4.0 m
Moisture content:
28%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 28% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		16 mg/kg	1.46	23.385 mg/kg	0.00234 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		10 mg/kg	1.13	11.259 mg/kg	0.00113 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	11 mg/kg		11 mg/kg	0.0011 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18 mg/kg	2.98	53.573 mg/kg	0.00536 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		49 mg/kg	2.08	102.142 mg/kg	0.0102 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0233 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS24[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS24[2]
Sample Depth:
3.05-3.5 m
Moisture content:
23%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 23% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		21 mg/kg	1.46	30.693 mg/kg	0.00307 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16 mg/kg	1.13	18.014 mg/kg	0.0018 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	16 mg/kg		16 mg/kg	0.0016 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22 mg/kg	2.98	65.478 mg/kg	0.00655 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		59 mg/kg	2.08	122.987 mg/kg	0.0123 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0286 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS25[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS25[2]
Sample Depth:
3.15-3.77 m
Moisture content:
24%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 24% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<**LOD**
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		18 mg/kg	1.46	26.308 mg/kg	0.00263 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		10 mg/kg	1.13	11.259 mg/kg	0.00113 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	11 mg/kg		11 mg/kg	0.0011 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18 mg/kg	2.98	53.573 mg/kg	0.00536 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		49 mg/kg	2.08	102.142 mg/kg	0.0102 %		
12	TPH (C6 to C40) petroleum group			TPH		2.2 mg/kg		2.2 mg/kg	0.00022 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				0.037	mg/kg		0.037	mg/kg	0.0000037 %		
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				0.017	mg/kg		0.017	mg/kg	0.0000017 %		
		601-023-00-4	202-849-4	100-41-4									
17		xylene				0.123	mg/kg		0.123	mg/kg	0.000012 %		
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				7.5	pH		7.5	pH	7.5 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0237 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS26[4]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS26[4]
Sample Depth:
3.05-3.5 m
Moisture content:
28%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 28% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	arsenic { arsenic trioxide }		8 mg/kg	1.32	10.563 mg/kg	0.00106 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
2	boron { diboron trioxide; boric oxide }		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
	005-008-00-8 / 215-125-8 / 1303-86-2							
3	cadmium { cadmium oxide }		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
	048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]							
4	chromium in chromium(III) compounds { chromium(III) oxide }		15 mg/kg	1.46	21.923 mg/kg	0.00219 %		
	/ 215-160-9 / 1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
	024-001-00-0 / 215-607-8 / 1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }		9 mg/kg	1.13	10.133 mg/kg	0.00101 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	1	11 mg/kg		11 mg/kg	0.0011 %		
	082-001-00-6 / /							
8	mercury { mercury dichloride }		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
	080-010-00-X / 231-299-8 / 7487-94-7							
9	nickel { nickel chromate }		16 mg/kg	2.98	47.62 mg/kg	0.00476 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }		<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
	034-002-00-8 / /							
11	zinc { zinc chloride }		44 mg/kg	2.08	91.719 mg/kg	0.00917 %		
	030-003-00-2 / 231-592-0 / 7646-85-7							
12	TPH (C6 to C40) petroleum group		3 mg/kg		3 mg/kg	0.0003 %		
	/ / TPH							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				0.026	mg/kg		0.026	mg/kg	0.0000026 %		
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				0.031	mg/kg		0.031	mg/kg	0.0000031 %		
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0215 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH47

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH47
Sample Depth:
12 m
Moisture content:
23%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 23% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7 mg/kg	1.32	9.242 mg/kg	0.000924 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		6 mg/kg	1.46	8.769 mg/kg	0.000877 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		4 mg/kg	1.13	4.504 mg/kg	0.00045 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	5 mg/kg		5 mg/kg	0.0005 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		7 mg/kg	2.98	20.834 mg/kg	0.00208 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		25 mg/kg	2.08	52.113 mg/kg	0.00521 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.012 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH47[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH47[1]
Sample Depth:
14 m
Moisture content:
43%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 43% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		7 mg/kg	1.32	9.242 mg/kg	0.000924 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		2 mg/kg	3.22	6.44 mg/kg	0.000644 %		
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		16 mg/kg	1.46	23.385 mg/kg	0.00234 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.13	14.637 mg/kg	0.00146 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	13 mg/kg		13 mg/kg	0.0013 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		29 mg/kg	2.98	86.312 mg/kg	0.00863 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		100 mg/kg	2.08	208.452 mg/kg	0.0208 %		
12	TPH (C6 to C40) petroleum group			TPH		7 mg/kg		7 mg/kg	0.0007 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0384 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: TP18A[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
TP18A[1]
Sample Depth:
3.6-4 m
Moisture content:
22%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10	mg/kg	1.32	13.203	mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		23	mg/kg	1.46	33.616	mg/kg	0.00336 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14	mg/kg	1.13	15.762	mg/kg	0.00158 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	15	mg/kg		15	mg/kg	0.0015 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22	mg/kg	2.98	65.478	mg/kg	0.00655 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		62	mg/kg	2.08	129.24	mg/kg	0.0129 %		
12	TPH (C6 to C40) petroleum group			TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0292 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH23[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH23[1]
Sample Depth:
6 m
Moisture content:
28%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 28% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		20 mg/kg	1.46	29.231 mg/kg	0.00292 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12 mg/kg	1.13	13.511 mg/kg	0.00135 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	14 mg/kg		14 mg/kg	0.0014 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22 mg/kg	2.98	65.478 mg/kg	0.00655 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		57 mg/kg	2.08	118.818 mg/kg	0.0119 %		
12	TPH (C6 to C40) petroleum group			TPH		5 mg/kg		5 mg/kg	0.0005 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
32		polychlorobiphenyls; PCB				<0	mg/kg		<0.00035	mg/kg	<0.000000035 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0277 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH14[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH14[1]
Sample Depth:
2.5 m
Moisture content:
23%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 23% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		21 mg/kg	1.46	30.693 mg/kg	0.00307 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.13	14.637 mg/kg	0.00146 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	17 mg/kg		17 mg/kg	0.0017 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		22 mg/kg	2.98	65.478 mg/kg	0.00655 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		64 mg/kg	2.08	133.409 mg/kg	0.0133 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.5	pH		7.5	pH	7.5 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0293 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS11[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS11[1]
Sample Depth:
4.2 m
Moisture content:
29%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 29% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9	mg/kg	1.32	11.883	mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		16	mg/kg	1.46	23.385	mg/kg	0.00234 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11	mg/kg	1.13	12.385	mg/kg	0.00124 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	15	mg/kg		15	mg/kg	0.0015 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18	mg/kg	2.98	53.573	mg/kg	0.00536 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		54	mg/kg	2.08	112.564	mg/kg	0.0113 %		
12	TPH (C6 to C40) petroleum group			TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.9	pH		7.9	pH	7.9 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0249 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS20[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS20[2]
Sample Depth:
3.2 m
Moisture content:
29%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 29% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14	mg/kg	1.32	18.485	mg/kg	0.00185 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		21	mg/kg	1.46	30.693	mg/kg	0.00307 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18	mg/kg	1.13	20.266	mg/kg	0.00203 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	14	mg/kg		14	mg/kg	0.0014 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23	mg/kg	2.98	68.454	mg/kg	0.00685 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		62	mg/kg	2.08	129.24	mg/kg	0.0129 %		
12	TPH (C6 to C40) petroleum group			TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0301 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH44[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH44[3]
Sample Depth:
2.5 m
Moisture content:
33%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 33% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16 mg/kg	1.32	21.125 mg/kg	0.00211 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		28 mg/kg	1.46	40.924 mg/kg	0.00409 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		45 mg/kg	1.13	50.665 mg/kg	0.00507 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	54 mg/kg		54 mg/kg	0.0054 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		29 mg/kg	2.98	86.312 mg/kg	0.00863 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		85 mg/kg	2.08	177.184 mg/kg	0.0177 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
32		polychlorobiphenyls; PCB				<0	mg/kg		<0.00035	mg/kg	<0.000000035 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.045 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH44[4]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH44[4]
Sample Depth:
4.5 m
Moisture content:
26%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 26% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		19 mg/kg	1.46	27.77 mg/kg	0.00278 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18 mg/kg	1.13	20.266 mg/kg	0.00203 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	14 mg/kg		14 mg/kg	0.0014 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21 mg/kg	2.98	62.502 mg/kg	0.00625 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		53 mg/kg	2.08	110.48 mg/kg	0.011 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0269 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS05[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS05[1]
Sample Depth:
0.5 m
Moisture content:
14%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		20 mg/kg	1.46	29.231 mg/kg	0.00292 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		19 mg/kg	1.13	21.392 mg/kg	0.00214 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	47 mg/kg		47 mg/kg	0.0047 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21 mg/kg	2.98	62.502 mg/kg	0.00625 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		69 mg/kg	2.08	143.832 mg/kg	0.0144 %		
12	TPH (C6 to C40) petroleum group			TPH		77 mg/kg		77 mg/kg	0.0077 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0413 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: TP11[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
TP11[2]
Sample Depth:
2.8 m
Moisture content:
29%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 29% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10	mg/kg	1.32	13.203	mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		26	mg/kg	1.46	38.00045	mg/kg	0.0038 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		20	mg/kg	1.13	22.518	mg/kg	0.00225 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	18	mg/kg		18	mg/kg	0.0018 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26	mg/kg	2.98	77.383	mg/kg	0.00774 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		66	mg/kg	2.08	137.578	mg/kg	0.0138 %		
12	TPH (C6 to C40) petroleum group			TPH		<14.6	mg/kg		<14.6	mg/kg	<0.00146 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**
		006-007-00-5											
19		pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.034 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP11[3]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
TP11[3]
Sample Depth:
4.15 m
Moisture content:
30%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 30% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		20 mg/kg	1.46	29.231 mg/kg	0.00292 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17 mg/kg	1.13	19.14 mg/kg	0.00191 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	13 mg/kg		13 mg/kg	0.0013 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20 mg/kg	2.98	59.525 mg/kg	0.00595 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		52 mg/kg	2.08	108.395 mg/kg	0.0108 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0262 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: BH41A

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH41A
Sample Depth:
9 m
Moisture content:
39%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 39% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		50	mg/kg	1.32	66.016	mg/kg	0.0066 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		2	mg/kg	3.22	6.44	mg/kg	0.000644 %		
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<**LOD**
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		130	mg/kg	1.46	190.002	mg/kg	0.019 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<**LOD**
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		110	mg/kg	1.13	123.848	mg/kg	0.0124 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	210	mg/kg		210	mg/kg	0.021 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<**LOD**
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		60	mg/kg	2.98	178.576	mg/kg	0.0179 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<**LOD**
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		400	mg/kg	2.08	833.809	mg/kg	0.0834 %		
12	TPH (C6 to C40) petroleum group			TPH		58	mg/kg		58	mg/kg	0.0058 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
15		naphthalene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			201-581-5	85-01-8									
20	●	anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-371-1	120-12-7									
21	●	fluoranthene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
			205-912-4	206-44-0									
22	●	pyrene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				0.03	mg/kg		0.03	mg/kg	0.000003 %		
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.168 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: BH46[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
BH46[1]
Sample Depth:
2.5 m
Moisture content:
31%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 31% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		27 mg/kg	1.46	39.462 mg/kg	0.00395 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		21 mg/kg	1.13	23.644 mg/kg	0.00236 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	19 mg/kg		19 mg/kg	0.0019 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27 mg/kg	2.98	80.359 mg/kg	0.00804 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		73 mg/kg	2.08	152.17 mg/kg	0.0152 %		
12	TPH (C6 to C40) petroleum group			TPH		3 mg/kg		3 mg/kg	0.0003 %		
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0352 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS13[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS13[1]
Sample Depth:
1.7 m
Moisture content:
20%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 20% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		21 mg/kg	1.46	30.693 mg/kg	0.00307 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		19 mg/kg	1.13	21.392 mg/kg	0.00214 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	18 mg/kg		18 mg/kg	0.0018 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21 mg/kg	2.98	62.502 mg/kg	0.00625 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		60 mg/kg	2.08	125.071 mg/kg	0.0125 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14	●	pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16	●	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17	●	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18	●	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19	●	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20	●	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21	●	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22	●	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28	●	indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30	●	benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0292 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP16[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
TP16[2]
Sample Depth:
1.6-1.8 m
Moisture content:
31%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 31% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		26 mg/kg	1.32	34.328 mg/kg	0.00343 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		17 mg/kg	1.46	24.846 mg/kg	0.00248 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		170 mg/kg	1.13	191.401 mg/kg	0.0191 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	250 mg/kg		250 mg/kg	0.025 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		29 mg/kg	2.98	86.312 mg/kg	0.00863 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		140 mg/kg	2.08	291.833 mg/kg	0.0292 %		
12	TPH (C6 to C40) petroleum group			TPH		28 mg/kg		28 mg/kg	0.0028 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
14		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
15		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
16		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
17		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		pH				7.3	pH		7.3	pH	7.3 pH		
				PH									
20		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
21		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
22		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
23		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
24		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
25		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
26		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
27		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
28		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
29		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
30		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
31		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
32		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
33		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
34		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
35		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
36		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
37		polychlorobiphenyls; PCB				<0	mg/kg		<0.00035	mg/kg	<0.000000035 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0926 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: WS22[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS22[1]
Sample Depth:
4.5 m
Moisture content:
28%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 28% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		18 mg/kg	1.46	26.308 mg/kg	0.00263 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16 mg/kg	1.13	18.014 mg/kg	0.0018 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	11 mg/kg		11 mg/kg	0.0011 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		19 mg/kg	2.98	56.549 mg/kg	0.00565 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		53 mg/kg	2.08	110.48 mg/kg	0.011 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.7	pH		7.7	pH	7.7 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0255 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS21[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS21[1]
Sample Depth:
3.5 m
Moisture content:
27%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 27% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		19 mg/kg	1.46	27.77 mg/kg	0.00278 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17 mg/kg	1.13	19.14 mg/kg	0.00191 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	12 mg/kg		12 mg/kg	0.0012 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20 mg/kg	2.98	59.525 mg/kg	0.00595 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		57 mg/kg	2.08	118.818 mg/kg	0.0119 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.027 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS14[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS14[2]
Sample Depth:
2.0-3.0 m
Moisture content:
23%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 23% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9	mg/kg	1.32	11.883	mg/kg	0.00119 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1	mg/kg	1.14	<1.142	mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		24	mg/kg	1.46	35.077	mg/kg	0.00351 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1	mg/kg	1.92	<1.923	mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12	mg/kg	1.13	13.511	mg/kg	0.00135 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	15	mg/kg		15	mg/kg	0.0015 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1	mg/kg	1.35	<1.353	mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23	mg/kg	2.98	68.454	mg/kg	0.00685 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3	mg/kg	2.55	<7.661	mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		60	mg/kg	2.08	125.071	mg/kg	0.0125 %		
12	TPH (C6 to C40) petroleum group			TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1	mg/kg	1.88	<1.884	mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				7.3	pH		7.3	pH	7.3 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0289 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: WS05[2]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
WS05[2]
Sample Depth:
3.0-4.0 m
Moisture content:
23%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 23% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
2	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
3	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<1 mg/kg	1.14	<1.142 mg/kg	<0.000114 %		<LOD
4	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		22 mg/kg	1.46	32.154 mg/kg	0.00322 %		
5	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.92	<1.923 mg/kg	<0.000192 %		<LOD
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.13	14.637 mg/kg	0.00146 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	14 mg/kg		14 mg/kg	0.0014 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<1 mg/kg	1.35	<1.353 mg/kg	<0.000135 %		<LOD
9	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23 mg/kg	2.98	68.454 mg/kg	0.00685 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<3 mg/kg	2.55	<7.661 mg/kg	<0.000766 %		<LOD
11	zinc { zinc chloride }	030-003-00-2	231-592-0	7646-85-7		59 mg/kg	2.08	122.987 mg/kg	0.0123 %		
12	TPH (C6 to C40) petroleum group			TPH		<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
13	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides,					<1 mg/kg	1.88	<1.884 mg/kg	<0.000188 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
		ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }											
		006-007-00-5											
14		pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
15		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		phenol				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
32		polychlorobiphenyls; PCB				<0.001	mg/kg		<0.00078	mg/kg	<0.000000078 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.0285 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Appendix A: Classifier defined and non CLP determinands

chromium(III) oxide (EC Number: 215-160-9, CAS Number: 1308-38-9)

Conversion factor: 1.462
Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17/07/2015
Risk Phrases: R20 , R22 , R36 , R37 , R38 , R42 , R43 , R50/53 , R60 , R61
Hazard Statements: Acute Tox. 4 H332 , Acute Tox. 4 H302 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315 , Resp. Sens. 1 H334 , Skin Sens. 1 H317 , Repr. 1B H360FD , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

dicopper oxide; copper (I) oxide (EC Number: 215-270-7, CAS Number: 1317-39-1)

CLP index number: 029-002-00-X
Data source: Regulation (EU) 2016/1179 of 19 July 2016 (ATP9)
Additional Risk Phrases: N R50/53 , N R50/53 >= 0.25 %
Additional Hazard Statement(s): None.
Reason for additional Hazards Statement(s)/Risk Phrase(s):
10/10/2016 - N R50/53 risk phrase sourced from: WM3 v1 still uses ecotoxic risk phrases
10/10/2016 - N R50/53 >= 0.25 % risk phrase sourced from: WM3 v1 still uses ecotoxic risk phrases

lead compounds with the exception of those specified elsewhere in this Annex

CLP index number: 082-001-00-6
Data source: Regulation 1272/2008/EC - Classification, labelling and packaging of substances and mixtures. (CLP)
Additional Risk Phrases: None.
Additional Hazard Statement(s): Carc. 2 H351
Reason for additional Hazards Statement(s)/Risk Phrase(s):
03/06/2015 - Carc. 2 H351 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html. Review date 29/09/2015

TPH (C6 to C40) petroleum group (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013
Data source: WM3 1st Edition 2015
Data source date: 25/05/2015
Risk Phrases: R10 , R45 , R46 , R51/53 , R63 , R65
Hazard Statements: Flam. Liq. 3 H226 , Asp. Tox. 1 H304 , STOT RE 2 H373 , Muta. 1B H340 , Carc. 1B H350 , Repr. 2 H361d , Aquatic Chronic 2 H411

salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex

CLP index number: 006-007-00-5
Data source: Commission Regulation (EC) No 790/2009 - 1st Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP1)
Additional Risk Phrases: None.
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s)/Risk Phrase(s):
14/12/2015 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

pH (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25/05/2015
Risk Phrases: None.
Hazard Statements: None.

acenaphthylene (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17/07/2015
Risk Phrases: R22 , R26 , R27 , R36 , R37 , R38
Hazard Statements: Acute Tox. 4 H302 , Acute Tox. 1 H330 , Acute Tox. 1 H310 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315

acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17/07/2015
Risk Phrases: R36 , R37 , R38 , N R50/53 , N R51/53
Hazard Statements: Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410 , Aquatic Chronic 2 H411

fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06/08/2015
Risk Phrases: N R50/53
Hazard Statements: Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06/08/2015
Risk Phrases: R22 , R36 , R37 , R38 , R40 , R43 , N R50/53
Hazard Statements: Acute Tox. 4 H302 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Carc. 2 H351 , Skin Sens. 1 H317 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410 , Skin Irrit. 2 H315

anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17/07/2015
Risk Phrases: R36 , R37 , R38 , R43 , N R50/53
Hazard Statements: Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315 , Skin Sens. 1 H317 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

fluoranthene (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21/08/2015
Risk Phrases: Xn R22 , N R50/53
Hazard Statements: Acute Tox. 4 H302 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

pyrene (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21/08/2015
Risk Phrases: Xi R36/37/38 , N R50/53
Hazard Statements: Skin Irrit. 2 H315 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

indeno[123-cd]pyrene (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06/08/2015
Risk Phrases: R40
Hazard Statements: Carc. 2 H351

benzo[ghi]perylene (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 23/07/2015
Risk Phrases: N R50/53
Hazard Statements: Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

ethylbenzene (EC Number: 202-849-4, CAS Number: 100-41-4)

CLP index number: 601-023-00-4
Data source: Commission Regulation (EU) No 605/2014 – 6th Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP6)
Additional Risk Phrases: None.
Additional Hazard Statement(s): Carc. 2 H351
Reason for additional Hazards Statement(s)/Risk Phrase(s):
03/06/2015 - Carc. 2 H351 hazard statement sourced from: IARC Group 2B (77) 2000

polychlorobiphenyls; PCB (EC Number: 215-648-1, CAS Number: 1336-36-3)

CLP index number: 602-039-00-4
Data source: Regulation 1272/2008/EC - Classification, labelling and packaging of substances and mixtures. (CLP)
Additional Risk Phrases: None.
Additional Hazard Statement(s): Carc. 1A H350
Reason for additional Hazards Statement(s)/Risk Phrase(s):
29/09/2015 - Carc. 1A H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Reasonable case CLP species based on hazard statements/molecular weight and most common (stable) oxide of arsenic. Industrial sources include: smelting; main precursor to other arsenic compounds (edit as required)

boron {diboron trioxide; boric oxide}

Reasonable case CLP species based on hazard statements/ molecular weight, physical form and low solubility. Industrial sources include: fluxing agent for glass/enamels; additive for fibre optics, borosilicate glass (edit as required)

cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. (edit as required) Worst case compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history (edit as required)

chromium in chromium(III) compounds {chromium(III) oxide}

Reasonable case species based on hazard statements/molecular weight. Industrial sources include: tanning, pigment in paint, inks and glass (edit as required)

chromium in chromium(VI) compounds {chromium(VI) oxide}

Worst case CLP species based on hazard statements/molecular weight. Industrial sources include: production stainless steel, electroplating, wood preservation, anti-corrosion agents or coatings, pigments (edit as required)

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Industrial sources include: oxidised copper metal, brake pads, pigments, antifouling paints, fungicide. (edit as required) Worse case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected. (edit as required)

lead {lead compounds with the exception of those specified elsewhere in this Annex}

Based on an assessment of the recorded concentrations of hexavalent chromium for each sample, these are considered to be present in insufficient concentrations to form lead chromate.

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case. Pigment cadmium sulphoselenide not likely to be present in this soil. No evidence for the other CLP entries: sodium selenite, nickel II selenite and nickel selenide, to be present in this soil. (edit as required)

zinc {zinc chloride}

Based on an assessment of the recorded concentrations of hexavalent chromium and sulphate for each sample, these are considered to be present in insufficient concentrations to form zinc chromate or zinc sulphate.

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case as complex cyanides and those specified elsewhere in the annex are not likely to be present in this soil: [Note conversion factor based on a worst case compound: sodium cyanide] (edit as required)

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition, May 2015
HazWasteOnline Classification Engine Version: 2016.302.3143.6237 (28 Oct 2016)
HazWasteOnline Database: 2016.302.3143.6237 (28 Oct 2016)

This classification utilises the following guidance and legislation:
WM3 - Waste Classification - May 2015
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Wastes 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
POPs Regulation 2004 - Regulation 850/2004/EC of 29 April 2004
1st ATP to POPs Regulation - Regulation 756/2010/EU of 24 August 2010
2nd ATP to POPs Regulation - Regulation 757/2010/EU of 24 August 2010

Appendix J3: Classification Report-A63 Castle Street EIA 2015 Data

SWECO

HazWasteOnline™

Waste Classification Report

P3RMB-3G7HZ-SHC38

Job name

A63 Castle Street EIA 2015 Data

Description/Comments

2015 Data

Project

115436

Site

A63 Castle Street EIA 2015 Data

Waste Stream Template

A63 Castle Street Template November 2016

Classified by

Name:
Joe Waterhouse
Date:
03/11/2016 11:35:48 UTC
Telephone:
0113 262 0000

Company:
SWECO
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Report

Created by: Joe Waterhouse
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Job summary

Classification of sample: (PQ) BH 412 (ES 2)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(PQ) BH 412 (ES 2)
Sample Depth:
0.2 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	antimony { antimony trioxide }		0.8 mg/kg	1.20	0.958 mg/kg	0.000096 %		
	051-005-00-X / 215-175-0 / 1309-64-4							
2	arsenic { arsenic trioxide }		10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
3	beryllium { beryllium oxide }		0.237 mg/kg	2.78	0.658 mg/kg	0.000066 %		
	004-003-00-8 / 215-133-1 / 1304-56-9							
4	boron { diboron trioxide; boric oxide }		0.8 mg/kg	3.22	2.576 mg/kg	0.000258 %		
	005-008-00-8 / 215-125-8 / 1303-86-2							
5	cadmium { cadmium oxide }		0.76 mg/kg	1.14	0.868 mg/kg	0.000087 %		
	048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]							
6	chromium in chromium(III) compounds { chromium(III) oxide }		11.5 mg/kg	1.46	16.808 mg/kg	0.00168 %		
	/ 215-160-9 / 1308-38-9							
7	chromium in chromium(VI) compounds { chromium(VI) oxide }		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
	024-001-00-0 / 215-607-8 / 1333-82-0							
8	copper { dicopper oxide; copper (I) oxide }		24.5 mg/kg	1.13	27.584 mg/kg	0.00276 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
9	lead { lead chromate }	1	304.2 mg/kg	1.56	474.496 mg/kg	0.03042 %		
	082-004-00-2 / 231-846-0 / 7758-97-6							
10	manganese { manganese sulphate }		416.7 mg/kg	2.75	1145.327 mg/kg	0.115 %		
	025-003-00-4 / 232-089-9 / 7785-87-7							
11	mercury { mercury dichloride }		0.23 mg/kg	1.35	0.311 mg/kg	0.000031 %		
	080-010-00-X / 231-299-8 / 7487-94-7							
12	molybdenum { molybdenum(VI) oxide }		1.5 mg/kg	1.50	2.25 mg/kg	0.000225 %		
	042-001-00-9 / 215-204-7 / 1313-27-5							
13	nickel { nickel chromate }		13.9 mg/kg	2.98	41.37 mg/kg	0.00414 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<LOD
15		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		81.5	mg/kg	2.47	201.248	mg/kg	0.0201 %		
16		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		19	mg/kg	1.79	33.919	mg/kg	0.00339 %		
17		TPH (C6 to C40) petroleum group			TPH		77.6	mg/kg		77.6	mg/kg	0.00776 %		
18		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
19		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
20		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
22		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
23		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
24		pH			PH		8.6	pH		8.6	pH	8.6 pH		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
26		acenaphthylene		205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
27		acenaphthene		201-469-6	83-32-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
28		fluorene		201-695-5	86-73-7		0.11	mg/kg		0.11	mg/kg	0.000011 %		
29		phenanthrene		201-581-5	85-01-8		1.03	mg/kg		1.03	mg/kg	0.000103 %		
30		anthracene		204-371-1	120-12-7		0.31	mg/kg		0.31	mg/kg	0.000031 %		
31		fluoranthene		205-912-4	206-44-0		1.59	mg/kg		1.59	mg/kg	0.000159 %		
32		pyrene		204-927-3	129-00-0		1.23	mg/kg		1.23	mg/kg	0.000123 %		
33		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.91	mg/kg		0.91	mg/kg	0.000091 %		
34		chrysene	601-048-00-0	205-923-4	218-01-9		0.75	mg/kg		0.75	mg/kg	0.000075 %		
35		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		1.12	mg/kg		1.12	mg/kg	0.000112 %		
36		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.5	mg/kg		0.5	mg/kg	0.00005 %		
37		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.79	mg/kg		0.79	mg/kg	0.000079 %		
38		indeno[123-cd]pyrene		205-893-2	193-39-5		0.54	mg/kg		0.54	mg/kg	0.000054 %		
39		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.16	mg/kg		0.16	mg/kg	0.000016 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				0.46	mg/kg		0.46	mg/kg	0.000046 %		
			205-883-8	191-24-2									
41		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
											Total:	0.188 %	

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (PQ) BH 414 (ES5)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(PQ) BH 414 (ES5)
Sample Depth:
0.5 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.4	mg/kg	1.20	1.676	mg/kg	0.000168 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		23.7	mg/kg	1.32	31.292	mg/kg	0.00313 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.13	mg/kg	2.78	3.136	mg/kg	0.000314 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		3.1	mg/kg	3.22	9.982	mg/kg	0.000998 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.62	mg/kg	1.14	0.708	mg/kg	0.000071 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		78.8	mg/kg	1.46	115.171	mg/kg	0.0115 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.92	<0.192	mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		107.2	mg/kg	1.13	120.695	mg/kg	0.0121 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	165.8	mg/kg	1.56	258.617	mg/kg	0.01658 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		845.6	mg/kg	2.75	2324.186	mg/kg	0.232 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.54	mg/kg	1.35	0.731	mg/kg	0.000073 %		
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.3	mg/kg	1.50	1.95	mg/kg	0.000195 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		39.8	mg/kg	2.98	118.455	mg/kg	0.0118 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.5	mg/kg	2.55	1.277	mg/kg	0.000128 %		
		034-002-00-8											
15		zinc { zinc sulphate }				257.6	mg/kg	2.47	636.091	mg/kg	0.0636 %		
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
16		vanadium { divanadium pentaoxide; vanadium pentoxide }				53	mg/kg	1.79	94.615	mg/kg	0.00946 %		
		023-001-00-8	215-239-8	1314-62-1									
17		TPH (C6 to C40) petroleum group				155.4	mg/kg		155.4	mg/kg	0.0155 %		
				TPH									
18		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
19		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
20		toluene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
21		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
22		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
23		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
		006-007-00-5											
24		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
25		naphthalene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
		601-052-00-2	202-049-5	91-20-3									
26		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
27		acenaphthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-469-6	83-32-9									
28		fluorene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-695-5	86-73-7									
29		phenanthrene				0.45	mg/kg		0.45	mg/kg	0.000045 %		
			201-581-5	85-01-8									
30		anthracene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
			204-371-1	120-12-7									
31		fluoranthene				0.74	mg/kg		0.74	mg/kg	0.000074 %		
			205-912-4	206-44-0									
32		pyrene				0.63	mg/kg		0.63	mg/kg	0.000063 %		
			204-927-3	129-00-0									
33		benzo[a]anthracene				0.46	mg/kg		0.46	mg/kg	0.000046 %		
		601-033-00-9	200-280-6	56-55-3									
34		chrysene				0.49	mg/kg		0.49	mg/kg	0.000049 %		
		601-048-00-0	205-923-4	218-01-9									
35		benzo[b]fluoranthene				0.77	mg/kg		0.77	mg/kg	0.000077 %		
		601-034-00-4	205-911-9	205-99-2									
36		benzo[k]fluoranthene				0.25	mg/kg		0.25	mg/kg	0.000025 %		
		601-036-00-5	205-916-6	207-08-9									
37		benzo[a]pyrene; benzo[def]chrysene				0.48	mg/kg		0.48	mg/kg	0.000048 %		
		601-032-00-3	200-028-5	50-32-8									
38		indeno[123-cd]pyrene				0.47	mg/kg		0.47	mg/kg	0.000047 %		
			205-893-2	193-39-5									
39		dibenz[a,h]anthracene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
		601-041-00-2	200-181-8	53-70-3									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				0.41	mg/kg		0.41	mg/kg	0.000041 %		
			205-883-8	191-24-2									
41		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.379 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (PQ) BH410 (ES3)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(PQ) BH410 (ES3)
Sample Depth:
0.75 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.1 mg/kg	1.20	1.317 mg/kg	0.000132 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14.5 mg/kg	1.32	19.145 mg/kg	0.00191 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.744 mg/kg	2.78	2.065 mg/kg	0.000206 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		2.9 mg/kg	3.22	9.338 mg/kg	0.000934 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.23 mg/kg	1.14	0.263 mg/kg	0.000026 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		27.1 mg/kg	1.46	39.608 mg/kg	0.00396 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		**<LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		31.3 mg/kg	1.13	35.24 mg/kg	0.00352 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	80.2 mg/kg	1.56	125.097 mg/kg	0.00802 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		741.1 mg/kg	2.75	2036.961 mg/kg	0.204 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.27 mg/kg	1.35	0.365 mg/kg	0.000037 %		
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		2.2 mg/kg	1.50	3.3 mg/kg	0.00033 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		25.8 mg/kg	2.98	76.788 mg/kg	0.00768 %		

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
14	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	2.55	<1.277 mg/kg	<0.000128 %		<LOD
15	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		85.3 mg/kg	2.47	210.631 mg/kg	0.0211 %		
16	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		39.8 mg/kg	1.79	71.05 mg/kg	0.00711 %		
17	TPH (C6 to C40) petroleum group			TPH		58.1 mg/kg		58.1 mg/kg	0.00581 %		
18	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
19	benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
20	toluene	601-021-00-3	203-625-9	108-88-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
21	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
22	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
23	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5 mg/kg	1.88	<0.942 mg/kg	<0.000094 %		<LOD
24	pH			PH		8.5 pH		8.5 pH	8.5 pH		
25	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
26	acenaphthylene		205-917-1	208-96-8		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
27	acenaphthene		201-469-6	83-32-9		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
28	fluorene		201-695-5	86-73-7		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
29	phenanthrene		201-581-5	85-01-8		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
30	anthracene		204-371-1	120-12-7		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
31	fluoranthene		205-912-4	206-44-0		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
32	pyrene		204-927-3	129-00-0		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
33	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
34	chrysene	601-048-00-0	205-923-4	218-01-9		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
35	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
36	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
37	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
38	indeno[123-cd]pyrene		205-893-2	193-39-5		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
39	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
			205-883-8	191-24-2									
41		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.265 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (PQ) BH415 (ES6)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(PQ) BH415 (ES6)
Sample Depth:
1.5 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.4 mg/kg	1.20	0.479 mg/kg	0.000048 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.619 mg/kg	2.78	1.718 mg/kg	0.000172 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		3.4 mg/kg	3.22	10.948 mg/kg	0.00109 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.18 mg/kg	1.14	0.206 mg/kg	0.000021 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		23.5 mg/kg	1.46	34.347 mg/kg	0.00343 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15 mg/kg	1.13	16.888 mg/kg	0.00169 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	26.3 mg/kg	1.56	41.023 mg/kg	0.00263 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		551.3 mg/kg	2.75	1515.283 mg/kg	0.152 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.35	<0.135 mg/kg	<0.000014 %		<**LOD**
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.9 mg/kg	1.50	1.35 mg/kg	0.000135 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23.6 mg/kg	2.98	70.24 mg/kg	0.00702 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<LOD
		034-002-00-8											
15		zinc { zinc sulphate }				67.8	mg/kg	2.47	167.418	mg/kg	0.0167 %		
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
16		vanadium { divanadium pentaoxide; vanadium pentoxide }				34.3	mg/kg	1.79	61.232	mg/kg	0.00612 %		
		023-001-00-8	215-239-8	1314-62-1									
17		TPH (C6 to C40) petroleum group				42.52	mg/kg		42.52	mg/kg	0.00425 %		
				TPH									
18		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
19		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
20		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
21		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
22		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.7	mg/kg	1.88	1.319	mg/kg	0.000132 %		
		006-007-00-5											
23		pH				8.7	pH		8.7	pH	8.7 pH		
				PH									
24		naphthalene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
26		acenaphthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-469-6	83-32-9									
27		fluorene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-695-5	86-73-7									
28		phenanthrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-581-5	85-01-8									
29		anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-371-1	120-12-7									
30		fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-912-4	206-44-0									
31		pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-927-3	129-00-0									
32		benzo[a]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
33		chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
34		benzo[b]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
35		benzo[k]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
36		benzo[a]pyrene; benzo[def]chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
37		indeno[123-cd]pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-893-2	193-39-5									
38		dibenz[a,h]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
39		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-883-8	191-24-2									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
40		phenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2							
								Total:	0.197 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (PQ) BH413 (ES3)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(PQ) BH413 (ES3)
Sample Depth:
1 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.7 mg/kg	1.20	0.838 mg/kg	0.000084 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13.1 mg/kg	1.32	17.296 mg/kg	0.00173 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.782 mg/kg	2.78	2.17 mg/kg	0.000217 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.8 mg/kg	3.22	5.796 mg/kg	0.00058 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.31 mg/kg	1.14	0.354 mg/kg	0.000035 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		31 mg/kg	1.46	45.308 mg/kg	0.00453 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		33.8 mg/kg	1.13	38.055 mg/kg	0.00381 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	67.8 mg/kg	1.56	105.755 mg/kg	0.00678 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		588.9 mg/kg	2.75	1618.629 mg/kg	0.162 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.14 mg/kg	1.35	0.189 mg/kg	0.000019 %		
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.6 mg/kg	1.50	2.4 mg/kg	0.00024 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26.3 mg/kg	2.98	78.276 mg/kg	0.00783 %		

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<LOD
15		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		80.9	mg/kg	2.47	199.766	mg/kg	0.02 %		
16		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		41.2	mg/kg	1.79	73.55	mg/kg	0.00735 %		
17		TPH (C6 to C40) petroleum group			TPH		<40.42	mg/kg		<40.42	mg/kg	<0.00404 %		<LOD
18		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
19		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
22		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
23		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
24		pH			PH		8.1	pH		8.1	pH	8.1 pH		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
26		acenaphthylene		205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
27		acenaphthene		201-469-6	83-32-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
28		fluorene		201-695-5	86-73-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
29		phenanthrene		201-581-5	85-01-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
30		anthracene		204-371-1	120-12-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
31		fluoranthene		205-912-4	206-44-0		0.16	mg/kg		0.16	mg/kg	0.000016 %		
32		pyrene		204-927-3	129-00-0		0.14	mg/kg		0.14	mg/kg	0.000014 %		
33		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.11	mg/kg		0.11	mg/kg	0.000011 %		
34		chrysene	601-048-00-0	205-923-4	218-01-9		0.14	mg/kg		0.14	mg/kg	0.000014 %		
35		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.17	mg/kg		0.17	mg/kg	0.000017 %		
36		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
37		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.1	mg/kg		0.1	mg/kg	0.00001 %		
38		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
39		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
			205-883-8	191-24-2									
41		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.22 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: (PQ) BH501 (ES1A)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(PQ) BH501 (ES1A)
Sample Depth:
4 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.3 mg/kg	1.20	0.359 mg/kg	0.000036 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		2.4 mg/kg	1.32	3.169 mg/kg	0.000317 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.138 mg/kg	2.78	0.383 mg/kg	0.000038 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.7 mg/kg	3.22	2.254 mg/kg	0.000225 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.29 mg/kg	1.14	0.331 mg/kg	0.000033 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		5.6 mg/kg	1.46	8.185 mg/kg	0.000818 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		6.3 mg/kg	1.13	7.093 mg/kg	0.000709 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	16.2 mg/kg	1.56	25.269 mg/kg	0.00162 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		594.6 mg/kg	2.75	1634.296 mg/kg	0.163 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.35	<0.135 mg/kg	<0.000014 %		<**LOD**
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<0.5 mg/kg	1.50	<0.75 mg/kg	<0.000075 %		<**LOD**
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		11.2 mg/kg	2.98	33.334 mg/kg	0.00333 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<LOD
		034-002-00-8											
15		zinc { zinc sulphate }				19.4	mg/kg	2.47	47.904	mg/kg	0.00479 %		
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
16		vanadium { divanadium pentaoxide; vanadium pentoxide }				7.1	mg/kg	1.79	12.675	mg/kg	0.00127 %		
		023-001-00-8	215-239-8	1314-62-1									
17		TPH (C6 to C40) petroleum group				<52.1	mg/kg		<52.1	mg/kg	<0.00521 %		<LOD
				TPH									
18		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
19		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
20		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
21		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
22		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
23		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
		006-007-00-5											
24		pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
25		naphthalene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
27		acenaphthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-469-6	83-32-9									
28		fluorene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-695-5	86-73-7									
29		phenanthrene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
			201-581-5	85-01-8									
30		anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-371-1	120-12-7									
31		fluoranthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-912-4	206-44-0									
32		pyrene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
			204-927-3	129-00-0									
33		benzo[a]anthracene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
		601-033-00-9	200-280-6	56-55-3									
34		chrysene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
		601-048-00-0	205-923-4	218-01-9									
35		benzo[b]fluoranthene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		601-034-00-4	205-911-9	205-99-2									
36		benzo[k]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
37		benzo[a]pyrene; benzo[def]chrysene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		601-032-00-3	200-028-5	50-32-8									
38		indeno[123-cd]pyrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-893-2	193-39-5									
39		dibenz[a,h]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-041-00-2	200-181-8	53-70-3									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				0.09	mg/kg		0.09	mg/kg	0.000009 %		
			205-883-8	191-24-2									
41		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.182 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: (GR) TP601 (ES4)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(GR) TP601 (ES4)
Sample Depth:
0.3 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.4 mg/kg	1.20	0.479 mg/kg	0.000048 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6.8 mg/kg	1.32	8.978 mg/kg	0.000898 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.28 mg/kg	2.78	0.777 mg/kg	0.000078 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.7 mg/kg	3.22	2.254 mg/kg	0.000225 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.28 mg/kg	1.14	0.32 mg/kg	0.000032 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		7.6 mg/kg	1.46	11.108 mg/kg	0.00111 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12.9 mg/kg	1.13	14.524 mg/kg	0.00145 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	13.2 mg/kg	1.56	20.59 mg/kg	0.00132 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		326.4 mg/kg	2.75	897.131 mg/kg	0.0897 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.35	<0.135 mg/kg	<0.000014 %		<**LOD**
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.6 mg/kg	1.50	0.9 mg/kg	0.00009 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		10 mg/kg	2.98	29.763 mg/kg	0.00298 %		

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
14	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	2.55	<1.277 mg/kg	<0.000128 %		<LOD
15	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		49.5 mg/kg	2.47	122.23 mg/kg	0.0122 %		
16	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		15.8 mg/kg	1.79	28.206 mg/kg	0.00282 %		
17	TPH (C6 to C40) petroleum group			TPH		55.32 mg/kg		55.32 mg/kg	0.00553 %		
18	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
19	benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
20	toluene	601-021-00-3	203-625-9	108-88-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
21	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
22	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
23	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5 mg/kg	1.88	<0.942 mg/kg	<0.000094 %		<LOD
24	pH			PH		8.6 pH		8.6 pH	8.6 pH		
25	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
26	acenaphthylene		205-917-1	208-96-8		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
27	acenaphthene		201-469-6	83-32-9		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
28	fluorene		201-695-5	86-73-7		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
29	phenanthrene		201-581-5	85-01-8		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
30	anthracene		204-371-1	120-12-7		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
31	fluoranthene		205-912-4	206-44-0		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
32	pyrene		204-927-3	129-00-0		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
33	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
34	chrysene	601-048-00-0	205-923-4	218-01-9		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
35	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
36	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
37	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
38	indeno[123-cd]pyrene		205-893-2	193-39-5		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
39	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
			205-883-8	191-24-2									
41		coronene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
43		trichloroethylene; trichloroethene				0.002	mg/kg		0.002	mg/kg	0.0000002 %		
		602-027-00-9	201-167-4	79-01-6									
										Total:	0.119 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (GR) TP602 (ES5)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(GR) TP602 (ES5)
Sample Depth:
0 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		3.1	mg/kg	1.20	3.711	mg/kg	0.000371 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13.6	mg/kg	1.32	17.956	mg/kg	0.0018 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.896	mg/kg	2.78	2.487	mg/kg	0.000249 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		2.4	mg/kg	3.22	7.728	mg/kg	0.000773 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.69	mg/kg	1.14	0.788	mg/kg	0.000079 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		28.5	mg/kg	1.46	41.654	mg/kg	0.00417 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		0.3	mg/kg	1.92	0.577	mg/kg	0.000058 %		
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		48.9	mg/kg	1.13	55.056	mg/kg	0.00551 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	116.7	mg/kg	1.56	182.03	mg/kg	0.01167 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		543.3	mg/kg	2.75	1493.295	mg/kg	0.149 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.35	<0.135	mg/kg	<0.000014 %		<**LOD**
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		2.1	mg/kg	1.50	3.15	mg/kg	0.000315 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		24.6	mg/kg	2.98	73.216	mg/kg	0.00732 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<LOD
		034-002-00-8											
15		zinc { zinc sulphate }				292.9	mg/kg	2.47	723.257	mg/kg	0.0723 %		
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
16		vanadium { divanadium pentaoxide; vanadium pentoxide }				32.3	mg/kg	1.79	57.661	mg/kg	0.00577 %		
		023-001-00-8	215-239-8	1314-62-1									
17		TPH (C6 to C40) petroleum group				146.82	mg/kg		146.82	mg/kg	0.0147 %		
				TPH									
18		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
19		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
20		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
21		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
22		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
23		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
		006-007-00-5											
24		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
25		naphthalene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
27		acenaphthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-469-6	83-32-9									
28		fluorene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-695-5	86-73-7									
29		phenanthrene				0.22	mg/kg		0.22	mg/kg	0.000022 %		
			201-581-5	85-01-8									
30		anthracene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
			204-371-1	120-12-7									
31		fluoranthene				0.38	mg/kg		0.38	mg/kg	0.000038 %		
			205-912-4	206-44-0									
32		pyrene				0.31	mg/kg		0.31	mg/kg	0.000031 %		
			204-927-3	129-00-0									
33		benzo[a]anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-033-00-9	200-280-6	56-55-3									
34		chrysene				0.24	mg/kg		0.24	mg/kg	0.000024 %		
		601-048-00-0	205-923-4	218-01-9									
35		benzo[b]fluoranthene				0.34	mg/kg		0.34	mg/kg	0.000034 %		
		601-034-00-4	205-911-9	205-99-2									
36		benzo[k]fluoranthene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
		601-036-00-5	205-916-6	207-08-9									
37		benzo[a]pyrene; benzo[def]chrysene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-032-00-3	200-028-5	50-32-8									
38		indeno[123-cd]pyrene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
			205-893-2	193-39-5									
39		dibenz[a,h]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-041-00-2	200-181-8	53-70-3									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
			205-883-8	191-24-2									
41		coronene				<1.5	mg/kg		<1.5	mg/kg	<0.00015 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
43		trichloroethylene; trichloroethene				0.005	mg/kg		0.005	mg/kg	0.0000005 %		
		602-027-00-9	201-167-4	79-01-6									
										Total:	0.275 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 2 on Ox. Gas 1; H270, Ox. Liq. 1; H271, Ox. Sol. 1; H271, Ox. Liq. 2; H272, Ox. Sol. 2; H272, Ox. Liq. 3; H272, Ox. Sol. 3; H272: Force this Hazardous property to non hazardous because Not considered to be an oxidiser based on recorded low concentrations of hexavalent chromium.

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (GR) TP603 (ES1)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(GR) TP603 (ES1)
Sample Depth:
0 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.3 mg/kg	1.20	1.556 mg/kg	0.000156 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13.4 mg/kg	1.32	17.692 mg/kg	0.00177 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.59 mg/kg	2.78	1.637 mg/kg	0.000164 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1 mg/kg	3.22	3.22 mg/kg	0.000322 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.37 mg/kg	1.14	0.423 mg/kg	0.000042 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		19 mg/kg	1.46	27.77 mg/kg	0.00278 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		29.9 mg/kg	1.13	33.664 mg/kg	0.00337 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	72 mg/kg	1.56	112.307 mg/kg	0.0072 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		605 mg/kg	2.75	1662.881 mg/kg	0.166 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.35	<0.135 mg/kg	<0.000014 %		<**LOD**
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.1 mg/kg	1.50	1.65 mg/kg	0.000165 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20.9 mg/kg	2.98	62.204 mg/kg	0.00622 %		

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<LOD
15		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		107.2	mg/kg	2.47	264.709	mg/kg	0.0265 %		
16		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		32.4	mg/kg	1.79	57.84	mg/kg	0.00578 %		
17		TPH (C6 to C40) petroleum group			TPH		566.42	mg/kg		566.42	mg/kg	0.0566 %		
18		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
19		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
20		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
22		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
23		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
24		pH			PH		8.1	pH		8.1	pH	8.1 pH		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.51	mg/kg		0.51	mg/kg	0.000051 %		
26		acenaphthylene		205-917-1	208-96-8		0.18	mg/kg		0.18	mg/kg	0.000018 %		
27		acenaphthene		201-469-6	83-32-9		0.68	mg/kg		0.68	mg/kg	0.000068 %		
28		fluorene		201-695-5	86-73-7		0.94	mg/kg		0.94	mg/kg	0.000094 %		
29		phenanthrene		201-581-5	85-01-8		6.85	mg/kg		6.85	mg/kg	0.000685 %		
30		anthracene		204-371-1	120-12-7		1.94	mg/kg		1.94	mg/kg	0.000194 %		
31		fluoranthene		205-912-4	206-44-0		8.07	mg/kg		8.07	mg/kg	0.000807 %		
32		pyrene		204-927-3	129-00-0		6.47	mg/kg		6.47	mg/kg	0.000647 %		
33		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		3.99	mg/kg		3.99	mg/kg	0.000399 %		
34		chrysene	601-048-00-0	205-923-4	218-01-9		3.76	mg/kg		3.76	mg/kg	0.000376 %		
35		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		4.16	mg/kg		4.16	mg/kg	0.000416 %		
36		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		1.66	mg/kg		1.66	mg/kg	0.000166 %		
37		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		3.3	mg/kg		3.3	mg/kg	0.00033 %		
38		indeno[123-cd]pyrene		205-893-2	193-39-5		1.92	mg/kg		1.92	mg/kg	0.000192 %		
39		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.43	mg/kg		0.43	mg/kg	0.000043 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				1.69	mg/kg		1.69	mg/kg	0.000169 %		
			205-883-8	191-24-2									
41		coronene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
43		trichloroethylene; trichloroethene				0.018	mg/kg		0.018	mg/kg	0.0000018 %		
		602-027-00-9	201-167-4	79-01-6									
44		bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		607-317-00-9	204-211-0	117-81-7									
										Total:	0.282 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (GR) TP604 (ES4)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(GR) TP604 (ES4)
Sample Depth:
0.5 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		2.1	mg/kg	1.20	2.514	mg/kg	0.000251 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13.2	mg/kg	1.32	17.428	mg/kg	0.00174 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.78	mg/kg	2.78	2.165	mg/kg	0.000216 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.6	mg/kg	3.22	5.152	mg/kg	0.000515 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.76	mg/kg	1.14	0.868	mg/kg	0.000087 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		19.3	mg/kg	1.46	28.208	mg/kg	0.00282 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.92	<0.192	mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		49.8	mg/kg	1.13	56.069	mg/kg	0.00561 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	123	mg/kg	1.56	191.857	mg/kg	0.0123 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		532.3	mg/kg	2.75	1463.061	mg/kg	0.146 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.35	<0.135	mg/kg	<0.000014 %		<**LOD**
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.9	mg/kg	1.50	2.85	mg/kg	0.000285 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17.8	mg/kg	2.98	52.978	mg/kg	0.0053 %		

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<LOD
15		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		177.9	mg/kg	2.47	439.288	mg/kg	0.0439 %		
16		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		31.1	mg/kg	1.79	55.519	mg/kg	0.00555 %		
17		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
18		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
19		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
20		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
21		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
22		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
23		pH			PH		8.1	pH		8.1	pH	8.1 pH		
24		naphthalene	601-052-00-2	202-049-5	91-20-3		0.1	mg/kg		0.1	mg/kg	0.00001 %		
25		acenaphthylene		205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
26		acenaphthene		201-469-6	83-32-9		0.3	mg/kg		0.3	mg/kg	0.00003 %		
27		fluorene		201-695-5	86-73-7		0.4	mg/kg		0.4	mg/kg	0.00004 %		
28		phenanthrene		201-581-5	85-01-8		0.7	mg/kg		0.7	mg/kg	0.00007 %		
29		anthracene		204-371-1	120-12-7		0.2	mg/kg		0.2	mg/kg	0.00002 %		
30		fluoranthene		205-912-4	206-44-0		1.43	mg/kg		1.43	mg/kg	0.000143 %		
31		pyrene		204-927-3	129-00-0		1.23	mg/kg		1.23	mg/kg	0.000123 %		
32		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.83	mg/kg		0.83	mg/kg	0.000083 %		
33		chrysene	601-048-00-0	205-923-4	218-01-9		0.88	mg/kg		0.88	mg/kg	0.000088 %		
34		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		1.18	mg/kg		1.18	mg/kg	0.000118 %		
35		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.42	mg/kg		0.42	mg/kg	0.000042 %		
36		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.83	mg/kg		0.83	mg/kg	0.000083 %		
37		indeno[123-cd]pyrene		205-893-2	193-39-5		0.57	mg/kg		0.57	mg/kg	0.000057 %		
38		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.12	mg/kg		0.12	mg/kg	0.000012 %		
39		benzo[ghi]perylene		205-883-8	191-24-2		0.51	mg/kg		0.51	mg/kg	0.000051 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		coronene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
			205-881-7	191-07-1									
41		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
42		trichloroethylene; trichloroethene				0.004	mg/kg		0.004	mg/kg	0.0000004 %		
		602-027-00-9	201-167-4	79-01-6									
										Total:	0.226 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: (MS) BH407 (ES10)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(MS) BH407 (ES10)
Sample Depth:
3.5 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	antimony { antimony trioxide }		0.4 mg/kg	1.20	0.479 mg/kg	0.000048 %		
	051-005-00-X / 215-175-0 / 1309-64-4							
2	arsenic { arsenic trioxide }		9.3 mg/kg	1.32	12.279 mg/kg	0.00123 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
3	beryllium { beryllium oxide }		0.934 mg/kg	2.78	2.592 mg/kg	0.000259 %		
	004-003-00-8 / 215-133-1 / 1304-56-9							
4	boron { diboron trioxide; boric oxide }		2.4 mg/kg	3.22	7.728 mg/kg	0.000773 %		
	005-008-00-8 / 215-125-8 / 1303-86-2							
5	cadmium { cadmium oxide }		0.18 mg/kg	1.14	0.206 mg/kg	0.000021 %		
	048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]							
6	chromium in chromium(III) compounds { chromium(III) oxide }		31.2 mg/kg	1.46	45.601 mg/kg	0.00456 %		
	/ 215-160-9 / 1308-38-9							
7	chromium in chromium(VI) compounds { chromium(VI) oxide }		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
	024-001-00-0 / 215-607-8 / 1333-82-0							
8	copper { dicopper oxide; copper (I) oxide }		16.4 mg/kg	1.13	18.465 mg/kg	0.00185 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
9	lead { lead chromate }	1	18.1 mg/kg	1.56	28.233 mg/kg	0.00181 %		
	082-004-00-2 / 231-846-0 / 7758-97-6							
10	manganese { manganese sulphate }		597.3 mg/kg	2.75	1641.717 mg/kg	0.164 %		
	025-003-00-4 / 232-089-9 / 7785-87-7							
11	mercury { mercury dichloride }		<0.1 mg/kg	1.35	<0.135 mg/kg	<0.000014 %		<**LOD**
	080-010-00-X / 231-299-8 / 7487-94-7							
12	molybdenum { molybdenum(VI) oxide }		0.6 mg/kg	1.50	0.9 mg/kg	0.00009 %		
	042-001-00-9 / 215-204-7 / 1313-27-5							
13	nickel { nickel chromate }		32.1 mg/kg	2.98	95.538 mg/kg	0.00955 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
14	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				0.8	mg/kg	2.55	2.043	mg/kg	0.000204 %		
15	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		81	mg/kg	2.47	200.013	mg/kg	0.02 %		
16	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		44	mg/kg	1.79	78.548	mg/kg	0.00785 %		
17	TPH (C6 to C40) petroleum group			TPH		81.12	mg/kg		81.12	mg/kg	0.00811 %		
18	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
19	benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
20	toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
21	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
22	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<**LOD**
23	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<**LOD**
24	pH			PH		8.4	pH		8.4	pH	8.4 pH		
25	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
26	acenaphthylene		205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
27	acenaphthene		201-469-6	83-32-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
28	fluorene		201-695-5	86-73-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
29	phenanthrene		201-581-5	85-01-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
30	anthracene		204-371-1	120-12-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
31	fluoranthene		205-912-4	206-44-0		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
32	pyrene		204-927-3	129-00-0		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
33	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
34	chrysene	601-048-00-0	205-923-4	218-01-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
35	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
36	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
37	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
38	indeno[123-cd]pyrene		205-893-2	193-39-5		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
39	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
			205-883-8	191-24-2									
41		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.221 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (MS) BH408 (ES12)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(MS) BH408 (ES12)
Sample Depth:
4.9 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.5 mg/kg	1.20	0.599 mg/kg	0.00006 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.9 mg/kg	1.32	13.071 mg/kg	0.00131 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.758 mg/kg	2.78	2.104 mg/kg	0.00021 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		3.5 mg/kg	3.22	11.27 mg/kg	0.00113 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.18 mg/kg	1.14	0.206 mg/kg	0.000021 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		27.4 mg/kg	1.46	40.047 mg/kg	0.004 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15.3 mg/kg	1.13	17.226 mg/kg	0.00172 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	15.5 mg/kg	1.56	24.177 mg/kg	0.00155 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		617.9 mg/kg	2.75	1698.338 mg/kg	0.17 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.35	<0.135 mg/kg	<0.000014 %		<**LOD**
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.8 mg/kg	1.50	1.2 mg/kg	0.00012 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27.4 mg/kg	2.98	81.55 mg/kg	0.00815 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.6	mg/kg	2.55	1.532	mg/kg	0.000153 %		
		034-002-00-8											
15		zinc { zinc sulphate }				75.9	mg/kg	2.47	187.42	mg/kg	0.0187 %		
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
16		vanadium { divanadium pentaoxide; vanadium pentoxide }				38.8	mg/kg	1.79	69.265	mg/kg	0.00693 %		
		023-001-00-8	215-239-8	1314-62-1									
17		TPH (C6 to C40) petroleum group				44.02	mg/kg		44.02	mg/kg	0.0044 %		
				TPH									
18		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
19		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
20		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
21		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
22		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
23		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
		006-007-00-5											
24		pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
25		naphthalene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
27		acenaphthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-469-6	83-32-9									
28		fluorene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-695-5	86-73-7									
29		phenanthrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-581-5	85-01-8									
30		anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-371-1	120-12-7									
31		fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-912-4	206-44-0									
32		pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-927-3	129-00-0									
33		benzo[a]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
34		chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
35		benzo[b]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
36		benzo[k]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
37		benzo[a]pyrene; benzo[def]chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
38		indeno[123-cd]pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-893-2	193-39-5									
39		dibenz[a,h]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-041-00-2	200-181-8	53-70-3									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
			205-883-8	191-24-2									
41		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
42		1,2,4-trimethylbenzene				0.023	mg/kg		0.023	mg/kg	0.0000023 %		
		601-043-00-3	202-436-9	95-63-6									
										Total:	0.219 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (MS) BH406 (ES1)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(MS) BH406 (ES1)
Sample Depth:
0.7 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		13.7 mg/kg	1.20	16.4 mg/kg	0.00164 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		22.3 mg/kg	1.32	29.443 mg/kg	0.00294 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.44 mg/kg	2.78	3.996 mg/kg	0.0004 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.4 mg/kg	3.22	4.508 mg/kg	0.000451 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.39 mg/kg	1.14	0.446 mg/kg	0.000045 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		26.8 mg/kg	1.46	39.17 mg/kg	0.00392 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		102.3 mg/kg	1.13	115.178 mg/kg	0.0115 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	394.7 mg/kg	1.56	615.659 mg/kg	0.03947 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		784.8 mg/kg	2.75	2157.073 mg/kg	0.216 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.35	<0.135 mg/kg	<0.000014 %		<**LOD**
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		2.3 mg/kg	1.50	3.45 mg/kg	0.000345 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		29.3 mg/kg	2.98	87.205 mg/kg	0.00872 %		

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				0.5	mg/kg	2.55	1.277	mg/kg	0.000128 %		
15		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		160.3	mg/kg	2.47	395.828	mg/kg	0.0396 %		
16		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		47.5	mg/kg	1.79	84.796	mg/kg	0.00848 %		
17		TPH (C6 to C40) petroleum group			TPH		79.22	mg/kg		79.22	mg/kg	0.00792 %		
18		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
19		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
20		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
22		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<**LOD**
23		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<**LOD**
24		pH			PH		8.6	pH		8.6	pH	8.6 pH		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		0.21	mg/kg		0.21	mg/kg	0.000021 %		
26		acenaphthylene		205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
27		acenaphthene		201-469-6	83-32-9		0.19	mg/kg		0.19	mg/kg	0.000019 %		
28		fluorene		201-695-5	86-73-7		0.15	mg/kg		0.15	mg/kg	0.000015 %		
29		phenanthrene		201-581-5	85-01-8		1.88	mg/kg		1.88	mg/kg	0.000188 %		
30		anthracene		204-371-1	120-12-7		0.43	mg/kg		0.43	mg/kg	0.000043 %		
31		fluoranthene		205-912-4	206-44-0		2.61	mg/kg		2.61	mg/kg	0.000261 %		
32		pyrene		204-927-3	129-00-0		2.1	mg/kg		2.1	mg/kg	0.00021 %		
33		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.23	mg/kg		1.23	mg/kg	0.000123 %		
34		chrysene	601-048-00-0	205-923-4	218-01-9		1.31	mg/kg		1.31	mg/kg	0.000131 %		
35		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		1.06	mg/kg		1.06	mg/kg	0.000106 %		
36		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		1.05	mg/kg		1.05	mg/kg	0.000105 %		
37		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		1.06	mg/kg		1.06	mg/kg	0.000106 %		
38		indeno[123-cd]pyrene		205-893-2	193-39-5		0.58	mg/kg		0.58	mg/kg	0.000058 %		
39		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.1	mg/kg		0.1	mg/kg	0.00001 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				0.59	mg/kg		0.59	mg/kg	0.000059 %		
			205-883-8	191-24-2									
41		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.343 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (MS) BH417 (ES1)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(MS) BH417 (ES1)
Sample Depth:
0.7 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		23.8	mg/kg	1.20	28.491	mg/kg	0.00285 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13.9	mg/kg	1.32	18.353	mg/kg	0.00184 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.36	mg/kg	2.78	0.999	mg/kg	0.0001 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		26.8	mg/kg	3.22	86.293	mg/kg	0.00863 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		7.28	mg/kg	1.14	8.316	mg/kg	0.000832 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		21.5	mg/kg	1.46	31.423	mg/kg	0.00314 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.92	<0.192	mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		65.7	mg/kg	1.13	73.971	mg/kg	0.0074 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	659	mg/kg	1.56	1027.918	mg/kg	0.0659 %		
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.98	mg/kg	1.35	1.326	mg/kg	0.000133 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18.4	mg/kg	2.98	54.763	mg/kg	0.00548 %		
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<**LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		441	mg/kg	2.47	1088.96	mg/kg	0.109 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				29.1	mg/kg	1.79	51.949	mg/kg	0.00519 %		
		023-001-00-8	215-239-8	1314-62-1									
15		TPH (C6 to C40) petroleum group				143.02	mg/kg		143.02	mg/kg	0.0143 %		
				TPH									
16		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
19		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
20		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<**LOD**
		006-007-00-5											
21		pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
22		naphthalene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-052-00-2	202-049-5	91-20-3									
23		acenaphthylene				0.09	mg/kg		0.09	mg/kg	0.000009 %		
			205-917-1	208-96-8									
24		acenaphthene				0.16	mg/kg		0.16	mg/kg	0.000016 %		
			201-469-6	83-32-9									
25		fluorene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
			201-695-5	86-73-7									
26		phenanthrene				1.23	mg/kg		1.23	mg/kg	0.000123 %		
			201-581-5	85-01-8									
27		anthracene				0.34	mg/kg		0.34	mg/kg	0.000034 %		
			204-371-1	120-12-7									
28		fluoranthene				2.08	mg/kg		2.08	mg/kg	0.000208 %		
			205-912-4	206-44-0									
29		pyrene				1.8	mg/kg		1.8	mg/kg	0.00018 %		
			204-927-3	129-00-0									
30		benzo[a]anthracene				1.05	mg/kg		1.05	mg/kg	0.000105 %		
		601-033-00-9	200-280-6	56-55-3									
31		chrysene				1.05	mg/kg		1.05	mg/kg	0.000105 %		
		601-048-00-0	205-923-4	218-01-9									
32		benzo[b]fluoranthene				1.32	mg/kg		1.32	mg/kg	0.000132 %		
		601-034-00-4	205-911-9	205-99-2									
33		benzo[k]fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-036-00-5	205-916-6	207-08-9									
34		benzo[a]pyrene; benzo[def]chrysene				1.01	mg/kg		1.01	mg/kg	0.000101 %		
		601-032-00-3	200-028-5	50-32-8									
35		indeno[123-cd]pyrene				0.73	mg/kg		0.73	mg/kg	0.000073 %		
			205-893-2	193-39-5									
36		dibenz[a,h]anthracene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		601-041-00-2	200-181-8	53-70-3									
37		benzo[ghi]perylene				0.69	mg/kg		0.69	mg/kg	0.000069 %		
			205-883-8	191-24-2									
										Total:	0.226 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (MS) WS401 (ES1)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(MS) WS401 (ES1)
Sample Depth:
0.3 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.9 mg/kg	1.20	1.077 mg/kg	0.000108 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9 mg/kg	1.32	11.883 mg/kg	0.00119 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.33 mg/kg	2.78	0.916 mg/kg	0.000092 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		2.2 mg/kg	3.22	7.084 mg/kg	0.000708 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.3 mg/kg	1.14	0.343 mg/kg	0.000034 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		20.1 mg/kg	1.46	29.377 mg/kg	0.00294 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		18.1 mg/kg	1.13	20.379 mg/kg	0.00204 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	69.5 mg/kg	1.56	108.407 mg/kg	0.00695 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		210.1 mg/kg	2.75	577.473 mg/kg	0.0577 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.35	<0.135 mg/kg	<0.000014 %		<**LOD**
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.9 mg/kg	1.50	2.85 mg/kg	0.000285 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		20 mg/kg	2.98	59.525 mg/kg	0.00595 %		

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
14	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	2.55	<1.277 mg/kg	<0.000128 %		<LOD
15	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		63.5 mg/kg	2.47	156.8 mg/kg	0.0157 %		
16	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		16.2 mg/kg	1.79	28.92 mg/kg	0.00289 %		
17	TPH (C6 to C40) petroleum group			TPH		42.81 mg/kg		42.81 mg/kg	0.00428 %		
18	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
19	benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
20	toluene	601-021-00-3	203-625-9	108-88-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
21	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
22	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
23	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5 mg/kg	1.88	<0.942 mg/kg	<0.000094 %		<LOD
24	pH			PH		11.2 pH		11.2 pH	11.2 pH		
25	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
26	acenaphthylene		205-917-1	208-96-8		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
27	acenaphthene		201-469-6	83-32-9		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
28	fluorene		201-695-5	86-73-7		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
29	phenanthrene		201-581-5	85-01-8		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
30	anthracene		204-371-1	120-12-7		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
31	fluoranthene		205-912-4	206-44-0		0.09 mg/kg		0.09 mg/kg	0.000009 %		
32	pyrene		204-927-3	129-00-0		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
33	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
34	chrysene	601-048-00-0	205-923-4	218-01-9		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
35	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
36	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
37	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
38	indeno[123-cd]pyrene		205-893-2	193-39-5		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
39	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
			205-883-8	191-24-2									
41		coronene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.101 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (MS) WS401 (ES3)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(MS) WS401 (ES3)
Sample Depth:
1.6 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.8	mg/kg	1.20	2.155	mg/kg	0.000215 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16.8	mg/kg	1.32	22.181	mg/kg	0.00222 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.647	mg/kg	2.78	1.796	mg/kg	0.00018 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		2.4	mg/kg	3.22	7.728	mg/kg	0.000773 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.26	mg/kg	1.14	0.297	mg/kg	0.00003 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		18.4	mg/kg	1.46	26.893	mg/kg	0.00269 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.92	<0.192	mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		54.1	mg/kg	1.13	60.911	mg/kg	0.00609 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	329.5	mg/kg	1.56	513.959	mg/kg	0.03295 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		470.9	mg/kg	2.75	1294.299	mg/kg	0.129 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.25	mg/kg	1.35	0.338	mg/kg	0.000034 %		
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.4	mg/kg	1.50	2.1	mg/kg	0.00021 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		17.7	mg/kg	2.98	52.68	mg/kg	0.00527 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.6	mg/kg	2.55	1.532	mg/kg	0.000153 %		
		034-002-00-8											
15		zinc { zinc sulphate }				73.2	mg/kg	2.47	180.752	mg/kg	0.0181 %		
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
16		vanadium { divanadium pentaoxide; vanadium pentoxide }				31	mg/kg	1.79	55.341	mg/kg	0.00553 %		
		023-001-00-8	215-239-8	1314-62-1									
17		TPH (C6 to C40) petroleum group				41.71	mg/kg		41.71	mg/kg	0.00417 %		
				TPH									
18		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
19		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
20		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
21		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
22		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
23		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
		006-007-00-5											
24		pH				9.2	pH		9.2	pH	9.2 pH		
				PH									
25		naphthalene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
		601-052-00-2	202-049-5	91-20-3									
26		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
27		acenaphthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-469-6	83-32-9									
28		fluorene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-695-5	86-73-7									
29		phenanthrene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
			201-581-5	85-01-8									
30		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
31		fluoranthene				0.21	mg/kg		0.21	mg/kg	0.000021 %		
			205-912-4	206-44-0									
32		pyrene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
			204-927-3	129-00-0									
33		benzo[a]anthracene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		601-033-00-9	200-280-6	56-55-3									
34		chrysene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
		601-048-00-0	205-923-4	218-01-9									
35		benzo[b]fluoranthene				0.11	mg/kg		0.11	mg/kg	0.000011 %		
		601-034-00-4	205-911-9	205-99-2									
36		benzo[k]fluoranthene				0.08	mg/kg		0.08	mg/kg	0.000008 %		
		601-036-00-5	205-916-6	207-08-9									
37		benzo[a]pyrene; benzo[def]chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-032-00-3	200-028-5	50-32-8									
38		indeno[123-cd]pyrene				0.09	mg/kg		0.09	mg/kg	0.000009 %		
			205-893-2	193-39-5									
39		dibenz[a,h]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-041-00-2	200-181-8	53-70-3									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				0.09	mg/kg		0.09	mg/kg	0.000009 %		
			205-883-8	191-24-2									
41		coronene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
43		polychlorobiphenyls; PCB				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.208 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (MS) WS402 (ES1)

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:
(MS) WS402 (ES1)
Sample Depth:
0.1 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 8: Corrosive "waste which on application can cause skin corrosion"

Risk phrases hit:

pH; pH "Assumed to be irritant/corrosive because of pH value"

Because of determinand:

pH: (conc.: 11.7 pH)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.8 mg/kg	1.20	0.958 mg/kg	0.000096 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10.5 mg/kg	1.32	13.863 mg/kg	0.00139 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.36 mg/kg	2.78	0.999 mg/kg	0.0001 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.2 mg/kg	3.22	3.864 mg/kg	0.000386 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		1.2 mg/kg	1.14	1.371 mg/kg	0.000137 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		16.2 mg/kg	1.46	23.677 mg/kg	0.00237 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		0.2 mg/kg	1.92	0.385 mg/kg	0.000038 %		
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		24.4 mg/kg	1.13	27.472 mg/kg	0.00275 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	103.7 mg/kg	1.56	161.753 mg/kg	0.01037 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		412.2 mg/kg	2.75	1132.958 mg/kg	0.113 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.16 mg/kg	1.35	0.217 mg/kg	0.000022 %		

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.5	mg/kg	1.50	2.25	mg/kg	0.000225 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		15.3	mg/kg	2.98	45.537	mg/kg	0.00455 %		
14	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<LOD
15	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		74.9	mg/kg	2.47	184.95	mg/kg	0.0185 %		
16	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		19.5	mg/kg	1.79	34.811	mg/kg	0.00348 %		
17	TPH (C6 to C40) petroleum group			TPH		68.61	mg/kg		68.61	mg/kg	0.00686 %		
18	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
19	benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
20	toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
21	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
22	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
23	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
24	pH			PH		11.7	pH		11.7	pH	11.7 pH		
25	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
26	acenaphthylene		205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
27	acenaphthene		201-469-6	83-32-9		0.1	mg/kg		0.1	mg/kg	0.00001 %		
28	fluorene		201-695-5	86-73-7		0.12	mg/kg		0.12	mg/kg	0.000012 %		
29	phenanthrene		201-581-5	85-01-8		1.18	mg/kg		1.18	mg/kg	0.000118 %		
30	anthracene		204-371-1	120-12-7		0.4	mg/kg		0.4	mg/kg	0.00004 %		
31	fluoranthene		205-912-4	206-44-0		2.03	mg/kg		2.03	mg/kg	0.000203 %		
32	pyrene		204-927-3	129-00-0		1.58	mg/kg		1.58	mg/kg	0.000158 %		
33	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.11	mg/kg		1.11	mg/kg	0.000111 %		
34	chrysene	601-048-00-0	205-923-4	218-01-9		1	mg/kg		1	mg/kg	0.0001 %		
35	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.84	mg/kg		0.84	mg/kg	0.000084 %		
36	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.95	mg/kg		0.95	mg/kg	0.000095 %		
37	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.9	mg/kg		0.9	mg/kg	0.00009 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
38		indeno[123-cd]pyrene				0.55	mg/kg		0.55	mg/kg	0.000055 %		
			205-893-2	193-39-5									
39		dibenz[a,h]anthracene				0.09	mg/kg		0.09	mg/kg	0.000009 %		
		601-041-00-2	200-181-8	53-70-3									
40		benzo[ghi]perylene				0.44	mg/kg		0.44	mg/kg	0.000044 %		
			205-883-8	191-24-2									
41		coronene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
43		tetrachloroethylene				0.004	mg/kg		0.004	mg/kg	0.0000004 %		
		602-028-00-4	204-825-9	127-18-4									
44		polychlorobiphenyls; PCB				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.166 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 2 on Ox. Gas 1; H270, Ox. Liq. 1; H271, Ox. Sol. 1; H271, Ox. Liq. 2; H272, Ox. Sol. 2; H272, Ox. Liq. 3; H272, Ox. Sol. 3; H272: Force this Hazardous property to non hazardous because Not considered to be an oxidiser based on recorded low concentrations of hexavalent chromium.

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (MS) WS402 (ES2)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(MS) WS402 (ES2)
Sample Depth:
1.2 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	antimony { antimony trioxide }		0.5 mg/kg	1.20	0.599 mg/kg	0.00006 %		
	051-005-00-X / 215-175-0 / 1309-64-4							
2	arsenic { arsenic trioxide }		13.5 mg/kg	1.32	17.824 mg/kg	0.00178 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
3	beryllium { beryllium oxide }		0.922 mg/kg	2.78	2.559 mg/kg	0.000256 %		
	004-003-00-8 / 215-133-1 / 1304-56-9							
4	boron { diboron trioxide; boric oxide }		3 mg/kg	3.22	9.66 mg/kg	0.000966 %		
	005-008-00-8 / 215-125-8 / 1303-86-2							
5	cadmium { cadmium oxide }		0.18 mg/kg	1.14	0.206 mg/kg	0.000021 %		
	048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]							
6	chromium in chromium(III) compounds { chromium(III) oxide }		32.2 mg/kg	1.46	47.062 mg/kg	0.00471 %		
	/ 215-160-9 / 1308-38-9							
7	chromium in chromium(VI) compounds { chromium(VI) oxide }		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
	024-001-00-0 / 215-607-8 / 1333-82-0							
8	copper { dicopper oxide; copper (I) oxide }		15.5 mg/kg	1.13	17.451 mg/kg	0.00175 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
9	lead { lead chromate }	1	23.7 mg/kg	1.56	36.968 mg/kg	0.00237 %		
	082-004-00-2 / 231-846-0 / 7758-97-6							
10	manganese { manganese sulphate }		570.5 mg/kg	2.75	1568.056 mg/kg	0.157 %		
	025-003-00-4 / 232-089-9 / 7785-87-7							
11	mercury { mercury dichloride }		<0.1 mg/kg	1.35	<0.135 mg/kg	<0.000014 %		<**LOD**
	080-010-00-X / 231-299-8 / 7487-94-7							
12	molybdenum { molybdenum(VI) oxide }		1 mg/kg	1.50	1.5 mg/kg	0.00015 %		
	042-001-00-9 / 215-204-7 / 1313-27-5							
13	nickel { nickel chromate }		30.5 mg/kg	2.98	90.776 mg/kg	0.00908 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<LOD
		034-002-00-8											
15		zinc { zinc sulphate }				77.9	mg/kg	2.47	192.358	mg/kg	0.0192 %		
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
16		vanadium { divanadium pentaoxide; vanadium pentoxide }				49	mg/kg	1.79	87.474	mg/kg	0.00875 %		
		023-001-00-8	215-239-8	1314-62-1									
17		TPH (C6 to C40) petroleum group				<41.61	mg/kg		<41.61	mg/kg	<0.00416 %		<LOD
				TPH									
18		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
19		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
20		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
21		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
22		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
23		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
		006-007-00-5											
24		pH				8.9	pH		8.9	pH	8.9 pH		
				PH									
25		naphthalene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
27		acenaphthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-469-6	83-32-9									
28		fluorene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-695-5	86-73-7									
29		phenanthrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-581-5	85-01-8									
30		anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-371-1	120-12-7									
31		fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-912-4	206-44-0									
32		pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-927-3	129-00-0									
33		benzo[a]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
34		chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
35		benzo[b]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
36		benzo[k]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
37		benzo[a]pyrene; benzo[def]chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
38		indeno[123-cd]pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-893-2	193-39-5									
39		dibenz[a,h]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-041-00-2	200-181-8	53-70-3									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
			205-883-8	191-24-2									
41		coronene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.211 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: (MS) WS403 (ES2)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(MS) WS403 (ES2)
Sample Depth:
1.25 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.4 mg/kg	1.20	0.479 mg/kg	0.000048 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11.9 mg/kg	1.32	15.712 mg/kg	0.00157 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.908 mg/kg	2.78	2.52 mg/kg	0.000252 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		3 mg/kg	3.22	9.66 mg/kg	0.000966 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.21 mg/kg	1.14	0.24 mg/kg	0.000024 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		32.8 mg/kg	1.46	47.939 mg/kg	0.00479 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15 mg/kg	1.13	16.888 mg/kg	0.00169 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	21.7 mg/kg	1.56	33.848 mg/kg	0.00217 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		772.6 mg/kg	2.75	2123.54 mg/kg	0.212 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.35	<0.135 mg/kg	<0.000014 %		<**LOD**
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.7 mg/kg	1.50	1.05 mg/kg	0.000105 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		32.6 mg/kg	2.98	97.026 mg/kg	0.0097 %		

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
14	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				0.6	mg/kg	2.55	1.532	mg/kg	0.000153 %		
15	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		81.6	mg/kg	2.47	201.495	mg/kg	0.0201 %		
16	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		49.3	mg/kg	1.79	88.01	mg/kg	0.0088 %		
17	TPH (C6 to C40) petroleum group			TPH		<41.81	mg/kg		<41.81	mg/kg	<0.00418 %		<LOD
18	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
19	benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
20	toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
21	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
22	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
23	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
24	pH			PH		8.9	pH		8.9	pH	8.9 pH		
25	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
26	acenaphthylene		205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
27	acenaphthene		201-469-6	83-32-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
28	fluorene		201-695-5	86-73-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
29	phenanthrene		201-581-5	85-01-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
30	anthracene		204-371-1	120-12-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
31	fluoranthene		205-912-4	206-44-0		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
32	pyrene		204-927-3	129-00-0		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
33	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
34	chrysene	601-048-00-0	205-923-4	218-01-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
35	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
36	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
37	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
38	indeno[123-cd]pyrene		205-893-2	193-39-5		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
39	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
			205-883-8	191-24-2									
41		coronene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.267 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: (MS) WS404 (ES1)

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample Name:
(MS) WS404 (ES1)
Sample Depth:
0.1 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 8: Corrosive "waste which on application can cause skin corrosion"

Risk phrases hit:

pH; pH "Assumed to be irritant/corrosive because of pH value"

Because of determinand:

pH: (conc.: 11.5 pH)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.3	mg/kg	1.20	0.359	mg/kg	0.000036 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		4.9	mg/kg	1.32	6.47	mg/kg	0.000647 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.218	mg/kg	2.78	0.605	mg/kg	0.000061 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.9	mg/kg	3.22	2.898	mg/kg	0.00029 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		1.69	mg/kg	1.14	1.931	mg/kg	0.000193 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		8.5	mg/kg	1.46	12.423	mg/kg	0.00124 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.92	<0.192	mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15.2	mg/kg	1.13	17.114	mg/kg	0.00171 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	18.3	mg/kg	1.56	28.545	mg/kg	0.00183 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		933.2	mg/kg	2.75	2564.96	mg/kg	0.256 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.35	<0.135	mg/kg	<0.000014 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
12		molybdenum { molybdenum(VI) oxide }				1.2	mg/kg	1.50	1.8	mg/kg	0.00018 %		
		042-001-00-9	215-204-7	1313-27-5									
13		nickel { nickel chromate }				6.5	mg/kg	2.98	19.346	mg/kg	0.00193 %		
		028-035-00-7	238-766-5	14721-18-7									
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<LOD
		034-002-00-8											
15		zinc { zinc sulphate }				80.8	mg/kg	2.47	199.519	mg/kg	0.02 %		
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
16		vanadium { divanadium pentaoxide; vanadium pentoxide }				9.2	mg/kg	1.79	16.424	mg/kg	0.00164 %		
		023-001-00-8	215-239-8	1314-62-1									
17		TPH (C6 to C40) petroleum group				786.61	mg/kg		786.61	mg/kg	0.0787 %		
				TPH									
18		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
19		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
20		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
21		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
22		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
23		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
		006-007-00-5											
24		pH				11.5	pH		11.5	pH	11.5 pH		
				PH									
25		naphthalene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
27		acenaphthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-469-6	83-32-9									
28		fluorene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-695-5	86-73-7									
29		phenanthrene				0.08	mg/kg		0.08	mg/kg	0.000008 %		
			201-581-5	85-01-8									
30		anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-371-1	120-12-7									
31		fluoranthene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
			205-912-4	206-44-0									
32		pyrene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
			204-927-3	129-00-0									
33		benzo[a]anthracene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
		601-033-00-9	200-280-6	56-55-3									
34		chrysene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
		601-048-00-0	205-923-4	218-01-9									
35		benzo[b]fluoranthene				0.09	mg/kg		0.09	mg/kg	0.000009 %		
		601-034-00-4	205-911-9	205-99-2									
36		benzo[k]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
37		benzo[a]pyrene; benzo[def]chrysene				0.08	mg/kg		0.08	mg/kg	0.000008 %		
		601-032-00-3	200-028-5	50-32-8									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
38		indeno[123-cd]pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
			205-893-2	193-39-5									
39		dibenz[a,h]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
		601-041-00-2	200-181-8	53-70-3									
40		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
			205-883-8	191-24-2									
41		coronene				<1.5	mg/kg		<1.5	mg/kg	<0.00015 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.365 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (MS) WS404 (ES2)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(MS) WS404 (ES2)
Sample Depth:
1.1 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.6 mg/kg	1.20	0.718 mg/kg	0.000072 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13 mg/kg	1.32	17.164 mg/kg	0.00172 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.806 mg/kg	2.78	2.237 mg/kg	0.000224 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		4.4 mg/kg	3.22	14.167 mg/kg	0.00142 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.31 mg/kg	1.14	0.354 mg/kg	0.000035 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		26.3 mg/kg	1.46	38.439 mg/kg	0.00384 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		**<LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		37.7 mg/kg	1.13	42.446 mg/kg	0.00424 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	103.7 mg/kg	1.56	161.753 mg/kg	0.01037 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		536 mg/kg	2.75	1473.23 mg/kg	0.147 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.25 mg/kg	1.35	0.338 mg/kg	0.000034 %		
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.8 mg/kg	1.50	2.7 mg/kg	0.00027 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27.4 mg/kg	2.98	81.55 mg/kg	0.00815 %		

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.2	mg/kg	2.55	3.064	mg/kg	0.000306 %		
15		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		89.4	mg/kg	2.47	220.755	mg/kg	0.0221 %		
16		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		45	mg/kg	1.79	80.333	mg/kg	0.00803 %		
17		TPH (C6 to C40) petroleum group			TPH		77.01	mg/kg		77.01	mg/kg	0.0077 %		
18		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
19		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
20		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
22		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<**LOD**
23		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<**LOD**
24		pH			PH		8.9	pH		8.9	pH	8.9 pH		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
26		acenaphthylene		205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
27		acenaphthene		201-469-6	83-32-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
28		fluorene		201-695-5	86-73-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
29		phenanthrene		201-581-5	85-01-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
30		anthracene		204-371-1	120-12-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
31		fluoranthene		205-912-4	206-44-0		0.29	mg/kg		0.29	mg/kg	0.000029 %		
32		pyrene		204-927-3	129-00-0		0.22	mg/kg		0.22	mg/kg	0.000022 %		
33		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
34		chrysene	601-048-00-0	205-923-4	218-01-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
35		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
36		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
37		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
38		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
39		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
			205-883-8	191-24-2									
41		coronene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.216 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (TB) BH309 (ES4)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH309 (ES4)
Sample Depth:
2.35 m
Moisture content:
26.7%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 26.7% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	antimony { antimony trioxide }		0.3 mg/kg	1.20	0.359 mg/kg	0.000036 %		
	051-005-00-X / 215-175-0 / 1309-64-4							
2	arsenic { arsenic trioxide }		11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
3	beryllium { beryllium oxide }		1.1 mg/kg	2.78	3.053 mg/kg	0.000305 %		
	004-003-00-8 / 215-133-1 / 1304-56-9							
4	boron { diboron trioxide; boric oxide }		3.8 mg/kg	3.22	12.236 mg/kg	0.00122 %		
	005-008-00-8 / 215-125-8 / 1303-86-2							
5	cadmium { cadmium oxide }		<0.2 mg/kg	1.14	<0.228 mg/kg	<0.000023 %		<**LOD**
	048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]							
6	chromium in chromium(III) compounds { chromium(III) oxide }		36.8 mg/kg	1.46	53.785 mg/kg	0.00538 %		
	215-160-9 / 1308-38-9							
7	chromium in chromium(VI) compounds { chromium(VI) oxide }		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
	024-001-00-0 / 215-607-8 / 1333-82-0							
8	copper { dicopper oxide; copper (I) oxide }		15.4 mg/kg	1.13	17.339 mg/kg	0.00173 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
9	lead { lead chromate }	1	21 mg/kg	1.56	32.756 mg/kg	0.0021 %		
	082-004-00-2 / 231-846-0 / 7758-97-6							
10	manganese { manganese sulphate }		531.9 mg/kg	2.75	1461.961 mg/kg	0.146 %		
	025-003-00-4 / 232-089-9 / 7785-87-7							
11	mercury { mercury dichloride }		<0.5 mg/kg	1.35	<0.677 mg/kg	<0.000068 %		<**LOD**
	080-010-00-X / 231-299-8 / 7487-94-7							
12	molybdenum { molybdenum(VI) oxide }		0.6 mg/kg	1.50	0.9 mg/kg	0.00009 %		
	042-001-00-9 / 215-204-7 / 1313-27-5							
13	nickel { nickel chromate }		37.3 mg/kg	2.98	111.015 mg/kg	0.0111 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
14	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	2.55	<1.277 mg/kg	<0.000128 %		<LOD
15	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		81 mg/kg	2.47	200.013 mg/kg	0.02 %		
16	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		50.9 mg/kg	1.79	90.866 mg/kg	0.00909 %		
17	TPH (C6 to C40) petroleum group			TPH		<79.11 mg/kg		<79.11 mg/kg	<0.00791 %		<LOD
18	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
19	benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
20	toluene	601-021-00-3	203-625-9	108-88-3		<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
21	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
22	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.008 mg/kg		<0.008 mg/kg	<0.0000008 %		<LOD
23	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.7 mg/kg	1.88	<1.319 mg/kg	<0.000132 %		<LOD
24	pH			PH		7.7 pH		7.7 pH	7.7 pH		
25	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
26	acenaphthylene		205-917-1	208-96-8		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
27	acenaphthene		201-469-6	83-32-9		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
28	fluorene		201-695-5	86-73-7		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
29	phenanthrene		201-581-5	85-01-8		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
30	anthracene		204-371-1	120-12-7		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
31	fluoranthene		205-912-4	206-44-0		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
32	pyrene		204-927-3	129-00-0		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
33	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
34	chrysene	601-048-00-0	205-923-4	218-01-9		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
35	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
36	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
37	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
38	indeno[123-cd]pyrene		205-893-2	193-39-5		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
39	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			205-883-8	191-24-2									
41		coronene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.7	mg/kg		<0.7	mg/kg	<0.00007 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.207 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: (TB) BH309 (ES10)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH309 (ES10)
Sample Depth:
3.65 m
Moisture content:
26.6%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 26.6% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.3 mg/kg	1.20	0.359 mg/kg	0.000036 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.7 mg/kg	1.32	12.807 mg/kg	0.00128 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.829 mg/kg	2.78	2.301 mg/kg	0.00023 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		4 mg/kg	3.22	12.88 mg/kg	0.00129 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<0.2 mg/kg	1.14	<0.228 mg/kg	<0.000023 %		**<LOD**
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		29 mg/kg	1.46	42.385 mg/kg	0.00424 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		**<LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13 mg/kg	1.13	14.637 mg/kg	0.00146 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	16 mg/kg	1.56	24.957 mg/kg	0.0016 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		609 mg/kg	2.75	1673.875 mg/kg	0.167 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5 mg/kg	1.35	<0.677 mg/kg	<0.000068 %		**<LOD**
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.6 mg/kg	1.50	0.9 mg/kg	0.00009 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		28.1 mg/kg	2.98	83.633 mg/kg	0.00836 %		

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<LOD
15		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		66.3	mg/kg	2.47	163.714	mg/kg	0.0164 %		
16		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		40.3	mg/kg	1.79	71.943	mg/kg	0.00719 %		
17		TPH (C6 to C40) petroleum group			TPH		<79.07	mg/kg		<79.07	mg/kg	<0.00791 %		<LOD
18		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
19		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
20		toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
22		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
23		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.7	mg/kg	1.88	<1.319	mg/kg	<0.000132 %		<LOD
24		pH			PH		8.3	pH		8.3	pH	8.3 pH		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
26		acenaphthylene		205-917-1	208-96-8		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
27		acenaphthene		201-469-6	83-32-9		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
28		fluorene		201-695-5	86-73-7		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
29		phenanthrene		201-581-5	85-01-8		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
30		anthracene		204-371-1	120-12-7		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
31		fluoranthene		205-912-4	206-44-0		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
32		pyrene		204-927-3	129-00-0		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
33		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
34		chrysene	601-048-00-0	205-923-4	218-01-9		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
35		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
36		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
37		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
38		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
39		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			205-883-8	191-24-2									
41		coronene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.7	mg/kg		<0.7	mg/kg	<0.00007 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.218 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: (TB) BH304 (ES9)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH304 (ES9)
Sample Depth:
2 m
Moisture content:
22.8%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 22.8% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.6	mg/kg	1.20	0.718	mg/kg	0.000072 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10.7	mg/kg	1.32	14.127	mg/kg	0.00141 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.716	mg/kg	2.78	1.987	mg/kg	0.000199 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		2.6	mg/kg	3.22	8.372	mg/kg	0.000837 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<0.2	mg/kg	1.14	<0.228	mg/kg	<0.000023 %		<**LOD**
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		26.6	mg/kg	1.46	38.877	mg/kg	0.00389 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.92	<0.192	mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15.8	mg/kg	1.13	17.789	mg/kg	0.00178 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	23.8	mg/kg	1.56	37.124	mg/kg	0.00238 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		581.5	mg/kg	2.75	1598.29	mg/kg	0.16 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.35	<0.677	mg/kg	<0.000068 %		<**LOD**
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1	mg/kg	1.50	1.5	mg/kg	0.00015 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26.4	mg/kg	2.98	78.573	mg/kg	0.00786 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.6	mg/kg	2.55	1.532	mg/kg	0.000153 %		
		034-002-00-8											
15		zinc { zinc sulphate }				64	mg/kg	2.47	158.035	mg/kg	0.0158 %		
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
16		vanadium { divanadium pentaoxide; vanadium pentoxide }				35.7	mg/kg	1.79	63.731	mg/kg	0.00637 %		
		023-001-00-8	215-239-8	1314-62-1									
17		TPH (C6 to C40) petroleum group				79.58	mg/kg		79.58	mg/kg	0.00796 %		
				TPH									
18		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
19		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
20		toluene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
21		ethylbenzene				<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
22		xylene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
23		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6	mg/kg	1.88	<1.13	mg/kg	<0.000113 %		<LOD
		006-007-00-5											
24		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
25		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
27		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
28		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
29		phenanthrene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
			201-581-5	85-01-8									
30		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
31		fluoranthene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
			205-912-4	206-44-0									
32		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
33		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
34		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
35		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
36		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
37		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
38		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
39		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
41		coronene				<1.7	mg/kg		<1.7	mg/kg	<0.00017 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.6	mg/kg		<0.6	mg/kg	<0.00006 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
43		polychlorobiphenyls; PCB				<0.038	mg/kg		<0.038	mg/kg	<0.0000038 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.209 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (TB) BH304 (ES15)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH304 (ES15)
Sample Depth:
4 m
Moisture content:
29%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 29% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.4 mg/kg	1.20	0.479 mg/kg	0.000048 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.5 mg/kg	1.32	12.543 mg/kg	0.00125 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.656 mg/kg	2.78	1.821 mg/kg	0.000182 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		3.8 mg/kg	3.22	12.236 mg/kg	0.00122 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		<0.2 mg/kg	1.14	<0.228 mg/kg	<0.000023 %		**<LOD**
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		24.5 mg/kg	1.46	35.808 mg/kg	0.00358 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		**<LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12 mg/kg	1.13	13.511 mg/kg	0.00135 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	17 mg/kg	1.56	26.517 mg/kg	0.0017 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		548.8 mg/kg	2.75	1508.412 mg/kg	0.151 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5 mg/kg	1.35	<0.677 mg/kg	<0.000068 %		**<LOD**
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.7 mg/kg	1.50	1.05 mg/kg	0.000105 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23.6 mg/kg	2.98	70.24 mg/kg	0.00702 %		

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
14	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				0.6	mg/kg	2.55	1.532	mg/kg	0.000153 %		
15	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		60.9	mg/kg	2.47	150.38	mg/kg	0.015 %		
16	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		33.7	mg/kg	1.79	60.161	mg/kg	0.00602 %		
17	TPH (C6 to C40) petroleum group			TPH		93.26	mg/kg		93.26	mg/kg	0.00933 %		
18	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
19	benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
20	toluene	601-021-00-3	203-625-9	108-88-3		<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<**LOD**
21	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<**LOD**
22	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<**LOD**
23	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.7	mg/kg	1.88	<1.319	mg/kg	<0.000132 %		<**LOD**
24	pH			PH		8.5	pH		8.5	pH	8.5 pH		
25	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
26	acenaphthylene		205-917-1	208-96-8		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
27	acenaphthene		201-469-6	83-32-9		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
28	fluorene		201-695-5	86-73-7		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
29	phenanthrene		201-581-5	85-01-8		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
30	anthracene		204-371-1	120-12-7		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
31	fluoranthene		205-912-4	206-44-0		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
32	pyrene		204-927-3	129-00-0		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
33	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
34	chrysene	601-048-00-0	205-923-4	218-01-9		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
35	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
36	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
37	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
38	indeno[123-cd]pyrene		205-893-2	193-39-5		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
39	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			205-883-8	191-24-2									
41		coronene				<1.8	mg/kg		<1.8	mg/kg	<0.00018 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.7	mg/kg		<0.7	mg/kg	<0.00007 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.199 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (TB) BH310 (ES7)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH310 (ES7)
Sample Depth:
2 m
Moisture content:
21.9%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 21.9% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	antimony { antimony trioxide }		3.3 mg/kg	1.20	3.95 mg/kg	0.000395 %		
	051-005-00-X / 215-175-0 / 1309-64-4							
2	arsenic { arsenic trioxide }		13.9 mg/kg	1.32	18.353 mg/kg	0.00184 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
3	beryllium { beryllium oxide }		0.994 mg/kg	2.78	2.759 mg/kg	0.000276 %		
	004-003-00-8 / 215-133-1 / 1304-56-9							
4	boron { diboron trioxide; boric oxide }		2.5 mg/kg	3.22	8.05 mg/kg	0.000805 %		
	005-008-00-8 / 215-125-8 / 1303-86-2							
5	cadmium { cadmium oxide }		<0.2 mg/kg	1.14	<0.228 mg/kg	<0.000023 %		<**LOD**
	048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]							
6	chromium in chromium(III) compounds { chromium(III) oxide }		31.3 mg/kg	1.46	45.747 mg/kg	0.00457 %		
	/ 215-160-9 / 1308-38-9							
7	chromium in chromium(VI) compounds { chromium(VI) oxide }		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
	024-001-00-0 / 215-607-8 / 1333-82-0							
8	copper { dicopper oxide; copper (I) oxide }		21.7 mg/kg	1.13	24.432 mg/kg	0.00244 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
9	lead { lead chromate }	1	225.4 mg/kg	1.56	351.582 mg/kg	0.02254 %		
	082-004-00-2 / 231-846-0 / 7758-97-6							
10	manganese { manganese sulphate }		650.1 mg/kg	2.75	1786.841 mg/kg	0.179 %		
	025-003-00-4 / 232-089-9 / 7785-87-7							
11	mercury { mercury dichloride }		<0.51 mg/kg	1.35	<0.69 mg/kg	<0.000069 %		<**LOD**
	080-010-00-X / 231-299-8 / 7487-94-7							
12	molybdenum { molybdenum(VI) oxide }		1.3 mg/kg	1.50	1.95 mg/kg	0.000195 %		
	042-001-00-9 / 215-204-7 / 1313-27-5							
13	nickel { nickel chromate }		29.8 mg/kg	2.98	88.693 mg/kg	0.00887 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.7	mg/kg	2.55	1.788	mg/kg	0.000179 %		
		034-002-00-8											
15		zinc { zinc sulphate }				78.5	mg/kg	2.47	193.84	mg/kg	0.0194 %		
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
16		vanadium { divanadium pentaoxide; vanadium pentoxide }				44	mg/kg	1.79	78.548	mg/kg	0.00785 %		
		023-001-00-8	215-239-8	1314-62-1									
17		TPH (C6 to C40) petroleum group				79.72	mg/kg		79.72	mg/kg	0.00797 %		
				TPH									
18		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
19		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
20		toluene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
21		ethylbenzene				<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
22		xylene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
23		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.6	mg/kg	1.88	<1.13	mg/kg	<0.000113 %		<LOD
		006-007-00-5											
24		pH				9	pH		9	pH	9pH		
				PH									
25		naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
27		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
28		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
29		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
30		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
31		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
32		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
33		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
34		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
35		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
36		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
37		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
38		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
39		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			205-883-8	191-24-2									
41		coronene				<1.64	mg/kg		<1.64	mg/kg	<0.000164 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.6	mg/kg		<0.6	mg/kg	<0.00006 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
43		polychlorobiphenyls; PCB				<0.038	mg/kg		<0.038	mg/kg	<0.0000038 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.257 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (TB) BH310 (ES9)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH310 (ES9)
Sample Depth:
2.5 m
Moisture content:
24.9%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 24.9% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	antimony { antimony trioxide }		0.5 mg/kg	1.20	0.599 mg/kg	0.00006 %		
	051-005-00-X / 215-175-0 / 1309-64-4							
2	arsenic { arsenic trioxide }		10.3 mg/kg	1.32	13.599 mg/kg	0.00136 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
3	beryllium { beryllium oxide }		0.815 mg/kg	2.78	2.262 mg/kg	0.000226 %		
	004-003-00-8 / 215-133-1 / 1304-56-9							
4	boron { diboron trioxide; boric oxide }		2.1 mg/kg	3.22	6.762 mg/kg	0.000676 %		
	005-008-00-8 / 215-125-8 / 1303-86-2							
5	cadmium { cadmium oxide }		<0.2 mg/kg	1.14	<0.228 mg/kg	<0.000023 %		<**LOD**
	048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]							
6	chromium in chromium(III) compounds { chromium(III) oxide }		29 mg/kg	1.46	42.385 mg/kg	0.00424 %		
	/ 215-160-9 / 1308-38-9							
7	chromium in chromium(VI) compounds { chromium(VI) oxide }		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
	024-001-00-0 / 215-607-8 / 1333-82-0							
8	copper { dicopper oxide; copper (I) oxide }		13.6 mg/kg	1.13	15.312 mg/kg	0.00153 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
9	lead { lead chromate }	1	22.7 mg/kg	1.56	35.408 mg/kg	0.00227 %		
	082-004-00-2 / 231-846-0 / 7758-97-6							
10	manganese { manganese sulphate }		548.2 mg/kg	2.75	1506.763 mg/kg	0.151 %		
	025-003-00-4 / 232-089-9 / 7785-87-7							
11	mercury { mercury dichloride }		<0.5 mg/kg	1.35	<0.677 mg/kg	<0.000068 %		<**LOD**
	080-010-00-X / 231-299-8 / 7487-94-7							
12	molybdenum { molybdenum(VI) oxide }		0.8 mg/kg	1.50	1.2 mg/kg	0.00012 %		
	042-001-00-9 / 215-204-7 / 1313-27-5							
13	nickel { nickel chromate }		27 mg/kg	2.98	80.359 mg/kg	0.00804 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
14	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	2.55	<1.277 mg/kg	<0.000128 %		<LOD
15	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		66 mg/kg	2.47	162.974 mg/kg	0.0163 %		
16	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		39.3 mg/kg	1.79	70.158 mg/kg	0.00702 %		
17	TPH (C6 to C40) petroleum group			TPH		<78.04 mg/kg		<78.04 mg/kg	<0.0078 %		<LOD
18	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
19	benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
20	toluene	601-021-00-3	203-625-9	108-88-3		<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
21	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
22	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.008 mg/kg		<0.008 mg/kg	<0.0000008 %		<LOD
23	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.7 mg/kg	1.88	<1.319 mg/kg	<0.000132 %		<LOD
24	pH			PH		8.3 pH		8.3 pH	8.3 pH		
25	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
26	acenaphthylene		205-917-1	208-96-8		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
27	acenaphthene		201-469-6	83-32-9		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
28	fluorene		201-695-5	86-73-7		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
29	phenanthrene		201-581-5	85-01-8		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
30	anthracene		204-371-1	120-12-7		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
31	fluoranthene		205-912-4	206-44-0		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
32	pyrene		204-927-3	129-00-0		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
33	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
34	chrysene	601-048-00-0	205-923-4	218-01-9		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
35	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
36	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
37	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
38	indeno[123-cd]pyrene		205-893-2	193-39-5		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
39	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<**LOD**
			205-883-8	191-24-2									
41		coronene				<1.7	mg/kg		<1.7	mg/kg	<0.00017 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.7	mg/kg		<0.7	mg/kg	<0.00007 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
43		polychlorobiphenyls; PCB				<0.038	mg/kg		<0.038	mg/kg	<0.0000038 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.201 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: (TB) BH303 (ES7)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH303 (ES7)
Sample Depth:
2.7 m
Moisture content:
24.3%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 24.3% No Moisture Correction applied (MC)

#		Determinand	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number / EC Number / CAS Number									
1		antimony { antimony trioxide }		1.1	mg/kg	1.20	1.317	mg/kg	0.000132 %		
		051-005-00-X / 215-175-0 / 1309-64-4									
2		arsenic { arsenic trioxide }		22.3	mg/kg	1.32	29.443	mg/kg	0.00294 %		
		033-003-00-0 / 215-481-4 / 1327-53-3									
3		beryllium { beryllium oxide }		0.663	mg/kg	2.78	1.84	mg/kg	0.000184 %		
		004-003-00-8 / 215-133-1 / 1304-56-9									
4		boron { diboron trioxide; boric oxide }		5.5	mg/kg	3.22	17.709	mg/kg	0.00177 %		
		005-008-00-8 / 215-125-8 / 1303-86-2									
5		cadmium { cadmium oxide }		0.75	mg/kg	1.14	0.857	mg/kg	0.000086 %		
		048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]									
6		chromium in chromium(III) compounds { chromium(III) oxide }		26	mg/kg	1.46	38.00045	mg/kg	0.0038 %		
		215-160-9 / 1308-38-9									
7		chromium in chromium(VI) compounds { chromium(VI) oxide }		<0.1	mg/kg	1.92	<0.192	mg/kg	<0.000019 %		<**LOD**
		024-001-00-0 / 215-607-8 / 1333-82-0									
8		copper { dicopper oxide; copper (I) oxide }		27.8	mg/kg	1.13	31.3	mg/kg	0.00313 %		
		029-002-00-X / 215-270-7 / 1317-39-1									
9		lead { lead chromate }	1	75.3	mg/kg	1.56	117.454	mg/kg	0.00753 %		
		082-004-00-2 / 231-846-0 / 7758-97-6									
10		manganese { manganese sulphate }		625.8	mg/kg	2.75	1720.051	mg/kg	0.172 %		
		025-003-00-4 / 232-089-9 / 7785-87-7									
11		mercury { mercury dichloride }		<0.5	mg/kg	1.35	<0.677	mg/kg	<0.000068 %		<**LOD**
		080-010-00-X / 231-299-8 / 7487-94-7									
12		molybdenum { molybdenum(VI) oxide }		1.5	mg/kg	1.50	2.25	mg/kg	0.000225 %		
		042-001-00-9 / 215-204-7 / 1313-27-5									
13		nickel { nickel chromate }		21.1	mg/kg	2.98	62.799	mg/kg	0.00628 %		
		028-035-00-7 / 238-766-5 / 14721-18-7									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1.1	mg/kg	2.55	2.809	mg/kg	0.000281 %		
		034-002-00-8											
15		zinc { zinc sulphate }				170.9	mg/kg	2.47	422.003	mg/kg	0.0422 %		
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
16		vanadium { divanadium pentaoxide; vanadium pentoxide }				46.1	mg/kg	1.79	82.297	mg/kg	0.00823 %		
		023-001-00-8	215-239-8	1314-62-1									
17		TPH (C6 to C40) petroleum group				<77.73	mg/kg		<77.73	mg/kg	<0.00777 %		<LOD
				TPH									
18		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
19		toluene				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
20		ethylbenzene				<0.003	mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
21		xylene				<0.008	mg/kg		<0.008	mg/kg	<0.0000008 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
22		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.7	mg/kg	1.88	<1.319	mg/kg	<0.000132 %		<LOD
		006-007-00-5											
23		pH				8.7	pH		8.7	pH	8.7 pH		
				PH									
24		naphthalene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		acenaphthylene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
			205-917-1	208-96-8									
26		acenaphthene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
			201-469-6	83-32-9									
27		fluorene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
			201-695-5	86-73-7									
28		phenanthrene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
			201-581-5	85-01-8									
29		anthracene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
			204-371-1	120-12-7									
30		fluoranthene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
			205-912-4	206-44-0									
31		pyrene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
			204-927-3	129-00-0									
32		benzo[a]anthracene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
33		chrysene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
34		benzo[b]fluoranthene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
35		benzo[k]fluoranthene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
36		benzo[a]pyrene; benzo[def]chrysene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
37		indeno[123-cd]pyrene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
			205-893-2	193-39-5									
38		dibenz[a,h]anthracene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
39		benzo[ghi]perylene				<0.11	mg/kg		<0.11	mg/kg	<0.000011 %		<LOD
			205-883-8	191-24-2									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		coronene				<1.69	mg/kg		<1.69	mg/kg	<0.000169 %		<**LOD**
			205-881-7	191-07-1									
41		phenol				<0.7	mg/kg		<0.7	mg/kg	<0.00007 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.257 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: (TB) BH303 ES(13)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH303 ES(13)
Sample Depth:
7.7 m
Moisture content:
26.9%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 26.9% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.4 mg/kg	1.20	0.479 mg/kg	0.000048 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12.1 mg/kg	1.32	15.976 mg/kg	0.0016 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.63 mg/kg	2.78	1.748 mg/kg	0.000175 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		5 mg/kg	3.22	16.099 mg/kg	0.00161 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.52 mg/kg	1.14	0.594 mg/kg	0.000059 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		24 mg/kg	1.46	35.077 mg/kg	0.00351 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12.7 mg/kg	1.13	14.299 mg/kg	0.00143 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	14.2 mg/kg	1.56	22.149 mg/kg	0.00142 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		521.8 mg/kg	2.75	1434.201 mg/kg	0.143 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5 mg/kg	1.35	<0.677 mg/kg	<0.000068 %		<**LOD**
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.6 mg/kg	1.50	0.9 mg/kg	0.00009 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21.6 mg/kg	2.98	64.287 mg/kg	0.00643 %		

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
14	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	2.55	<1.277 mg/kg	<0.000128 %		<LOD
15	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		54.8 mg/kg	2.47	135.317 mg/kg	0.0135 %		
16	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		33 mg/kg	1.79	58.911 mg/kg	0.00589 %		
17	TPH (C6 to C40) petroleum group			TPH		<79.28 mg/kg		<79.28 mg/kg	<0.00793 %		<LOD
18	benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
19	toluene	601-021-00-3	203-625-9	108-88-3		<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
20	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
21	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.008 mg/kg		<0.008 mg/kg	<0.0000008 %		<LOD
22	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.7 mg/kg	1.88	<1.319 mg/kg	<0.000132 %		<LOD
23	pH			PH		8.7 pH		8.7 pH	8.7 pH		
24	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
25	acenaphthylene		205-917-1	208-96-8		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
26	acenaphthene		201-469-6	83-32-9		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
27	fluorene		201-695-5	86-73-7		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
28	phenanthrene		201-581-5	85-01-8		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
29	anthracene		204-371-1	120-12-7		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
30	fluoranthene		205-912-4	206-44-0		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
31	pyrene		204-927-3	129-00-0		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
32	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
33	chrysene	601-048-00-0	205-923-4	218-01-9		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
34	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
35	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
36	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
37	indeno[123-cd]pyrene		205-893-2	193-39-5		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
38	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD
39	benzo[ghi]perylene		205-883-8	191-24-2		<0.11 mg/kg		<0.11 mg/kg	<0.000011 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		coronene				<1.75	mg/kg		<1.75	mg/kg	<0.000175 %		<**LOD**
			205-881-7	191-07-1									
41		phenol				<0.7	mg/kg		<0.7	mg/kg	<0.00007 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.188 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: (TB) BH306 (ES3)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH306 (ES3)
Sample Depth:
0.3 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.2	mg/kg	1.20	1.437	mg/kg	0.000144 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15	mg/kg	1.32	19.805	mg/kg	0.00198 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.82	mg/kg	2.78	2.276	mg/kg	0.000228 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.4	mg/kg	3.22	4.508	mg/kg	0.000451 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.25	mg/kg	1.14	0.286	mg/kg	0.000029 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		27.2	mg/kg	1.46	39.754	mg/kg	0.00398 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.92	<0.192	mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		31.4	mg/kg	1.13	35.353	mg/kg	0.00354 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	179.4	mg/kg	1.56	279.831	mg/kg	0.01794 %		
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.18	mg/kg	1.35	0.244	mg/kg	0.000024 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		31.5	mg/kg	2.98	93.752	mg/kg	0.00938 %		
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<**LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		73.9	mg/kg	2.47	182.481	mg/kg	0.0182 %		

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
14	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		44	mg/kg	1.79	78.548	mg/kg	0.00785 %		
15	TPH (C6 to C40) petroleum group			TPH		567	mg/kg		567	mg/kg	0.0567 %		
16	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
17	benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
18	toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
19	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
20	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		0.011	mg/kg		0.011	mg/kg	0.0000011 %		
21	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.68	mg/kg	1.88	1.281	mg/kg	0.000128 %		
22	pH			PH		8.6	pH		8.6	pH	8.6 pH		
23	naphthalene	601-052-00-2	202-049-5	91-20-3		1.34	mg/kg		1.34	mg/kg	0.000134 %		
24	acenaphthylene		205-917-1	208-96-8		0.58	mg/kg		0.58	mg/kg	0.000058 %		
25	acenaphthene		201-469-6	83-32-9		0.97	mg/kg		0.97	mg/kg	0.000097 %		
26	fluorene		201-695-5	86-73-7		1.16	mg/kg		1.16	mg/kg	0.000116 %		
27	phenanthrene		201-581-5	85-01-8		11.8	mg/kg		11.8	mg/kg	0.00118 %		
28	anthracene		204-371-1	120-12-7		3.71	mg/kg		3.71	mg/kg	0.000371 %		
29	fluoranthene		205-912-4	206-44-0		22.4	mg/kg		22.4	mg/kg	0.00224 %		
30	pyrene		204-927-3	129-00-0		18	mg/kg		18	mg/kg	0.0018 %		
31	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		10.4	mg/kg		10.4	mg/kg	0.00104 %		
32	chrysene	601-048-00-0	205-923-4	218-01-9		9.3	mg/kg		9.3	mg/kg	0.00093 %		
33	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		9	mg/kg		9	mg/kg	0.0009 %		
34	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		3.7	mg/kg		3.7	mg/kg	0.00037 %		
35	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		7.3	mg/kg		7.3	mg/kg	0.00073 %		
36	indeno[123-cd]pyrene		205-893-2	193-39-5		4.56	mg/kg		4.56	mg/kg	0.000456 %		
37	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		1.06	mg/kg		1.06	mg/kg	0.000106 %		
38	benzo[ghi]perylene		205-883-8	191-24-2		3.24	mg/kg		3.24	mg/kg	0.000324 %		
39	coronene		205-881-7	191-07-1		0.87	mg/kg		0.87	mg/kg	0.000087 %		
40	phenol	604-001-00-2	203-632-7	108-95-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
								Total:	0.132 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (TB) BH309 (ES3)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH309 (ES3)
Sample Depth:
0.4 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.7 mg/kg	1.20	0.838 mg/kg	0.000084 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12.3 mg/kg	1.32	16.24 mg/kg	0.00162 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.829 mg/kg	2.78	2.301 mg/kg	0.00023 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		2 mg/kg	3.22	6.44 mg/kg	0.000644 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.18 mg/kg	1.14	0.206 mg/kg	0.000021 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		30 mg/kg	1.46	43.847 mg/kg	0.00438 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		16.2 mg/kg	1.13	18.239 mg/kg	0.00182 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	29.3 mg/kg	1.56	45.703 mg/kg	0.00293 %		
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.35	<0.135 mg/kg	<0.000014 %		<**LOD**
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		29.8 mg/kg	2.98	88.693 mg/kg	0.00887 %		
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	2.55	<1.277 mg/kg	<0.000128 %		<**LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		67.2 mg/kg	2.47	165.937 mg/kg	0.0166 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				44.2	mg/kg	1.79	78.905	mg/kg	0.00789 %		
		023-001-00-8	215-239-8	1314-62-1									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.86	mg/kg	1.88	1.62	mg/kg	0.000162 %		
		006-007-00-5											
20		pH				8.7	pH		8.7	pH	8.7 pH		
				PH									
21		naphthalene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
23		acenaphthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-469-6	83-32-9									
24		fluorene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-695-5	86-73-7									
25		phenanthrene				0.32	mg/kg		0.32	mg/kg	0.000032 %		
			201-581-5	85-01-8									
26		anthracene				0.09	mg/kg		0.09	mg/kg	0.000009 %		
			204-371-1	120-12-7									
27		fluoranthene				0.59	mg/kg		0.59	mg/kg	0.000059 %		
			205-912-4	206-44-0									
28		pyrene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
			204-927-3	129-00-0									
29		benzo[a]anthracene				0.31	mg/kg		0.31	mg/kg	0.000031 %		
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				0.34	mg/kg		0.34	mg/kg	0.000034 %		
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				0.27	mg/kg		0.27	mg/kg	0.000027 %		
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				0.22	mg/kg		0.22	mg/kg	0.000022 %		
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
			205-883-8	191-24-2									
37		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0458 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: (TB) BH309 (ES6)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH309 (ES6)
Sample Depth:
0.8 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		2.6	mg/kg	1.20	3.112	mg/kg	0.000311 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16.4	mg/kg	1.32	21.653	mg/kg	0.00217 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.09	mg/kg	2.78	3.025	mg/kg	0.000303 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.2	mg/kg	3.22	3.864	mg/kg	0.000386 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.41	mg/kg	1.14	0.468	mg/kg	0.000047 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		27.4	mg/kg	1.46	40.047	mg/kg	0.004 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.92	<0.192	mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		41	mg/kg	1.13	46.161	mg/kg	0.00462 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	169.1	mg/kg	1.56	263.765	mg/kg	0.01691 %		
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.12	mg/kg	1.35	0.162	mg/kg	0.000016 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		27.2	mg/kg	2.98	80.954	mg/kg	0.0081 %		
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<**LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		114.5	mg/kg	2.47	282.734	mg/kg	0.0283 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				48.9	mg/kg	1.79	87.296	mg/kg	0.00873 %		
		023-001-00-8	215-239-8	1314-62-1									
15		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
16		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
17		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
18		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
		006-007-00-5											
20		pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
21		naphthalene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
22		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
23		acenaphthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-469-6	83-32-9									
24		fluorene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-695-5	86-73-7									
25		phenanthrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-581-5	85-01-8									
26		anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-371-1	120-12-7									
27		fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-912-4	206-44-0									
28		pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-927-3	129-00-0									
29		benzo[a]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
30		chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
31		benzo[b]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
32		benzo[k]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
33		benzo[a]pyrene; benzo[def]chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
34		indeno[123-cd]pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-893-2	193-39-5									
35		dibenz[a,h]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
36		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-883-8	191-24-2									
37		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0743 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: (TB) BH301 (ES1)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH301 (ES1)
Sample Depth:
0.15 m
Moisture content:
21.4%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 21.4% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		4.8 mg/kg	1.20	5.746 mg/kg	0.000575 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		33.6 mg/kg	1.32	44.363 mg/kg	0.00444 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.21 mg/kg	2.78	3.358 mg/kg	0.000336 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		2.6 mg/kg	3.22	8.372 mg/kg	0.000837 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.66 mg/kg	1.14	0.754 mg/kg	0.000075 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		33.8 mg/kg	1.46	49.401 mg/kg	0.00494 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		95.1 mg/kg	1.13	107.072 mg/kg	0.0107 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	242.2 mg/kg	1.56	377.787 mg/kg	0.02422 %		
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.67 mg/kg	1.35	0.907 mg/kg	0.000091 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		39.2 mg/kg	2.98	116.67 mg/kg	0.0117 %		
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				0.7 mg/kg	2.55	1.788 mg/kg	0.000179 %		
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		183.4 mg/kg	2.47	452.869 mg/kg	0.0453 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				61.7	mg/kg	1.79	110.146	mg/kg	0.011 %		
		023-001-00-8	215-239-8	1314-62-1									
15		TPH (C6 to C40) petroleum group				188.12	mg/kg		188.12	mg/kg	0.0188 %		
				TPH									
16		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
17		benzene				0.001	mg/kg		0.001	mg/kg	0.0000001 %		
		601-020-00-8	200-753-7	71-43-2									
18		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
19		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
21		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				0.5	mg/kg	1.88	0.942	mg/kg	0.000094 %		
		006-007-00-5											
22		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
23		naphthalene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		601-052-00-2	202-049-5	91-20-3									
24		acenaphthylene				0.08	mg/kg		0.08	mg/kg	0.000008 %		
			205-917-1	208-96-8									
25		acenaphthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			201-469-6	83-32-9									
26		fluorene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-695-5	86-73-7									
27		phenanthrene				3.18	mg/kg		3.18	mg/kg	0.000318 %		
			201-581-5	85-01-8									
28		anthracene				0.75	mg/kg		0.75	mg/kg	0.000075 %		
			204-371-1	120-12-7									
29		fluoranthene				5.83	mg/kg		5.83	mg/kg	0.000583 %		
			205-912-4	206-44-0									
30		pyrene				4.96	mg/kg		4.96	mg/kg	0.000496 %		
			204-927-3	129-00-0									
31		benzo[a]anthracene				2.84	mg/kg		2.84	mg/kg	0.000284 %		
		601-033-00-9	200-280-6	56-55-3									
32		chrysene				2.97	mg/kg		2.97	mg/kg	0.000297 %		
		601-048-00-0	205-923-4	218-01-9									
33		benzo[b]fluoranthene				3.67	mg/kg		3.67	mg/kg	0.000367 %		
		601-034-00-4	205-911-9	205-99-2									
34		benzo[k]fluoranthene				1.29	mg/kg		1.29	mg/kg	0.000129 %		
		601-036-00-5	205-916-6	207-08-9									
35		benzo[a]pyrene; benzo[def]chrysene				2.79	mg/kg		2.79	mg/kg	0.000279 %		
		601-032-00-3	200-028-5	50-32-8									
36		indeno[123-cd]pyrene				2.21	mg/kg		2.21	mg/kg	0.000221 %		
			205-893-2	193-39-5									
37		dibenz[a,h]anthracene				0.48	mg/kg		0.48	mg/kg	0.000048 %		
		601-041-00-2	200-181-8	53-70-3									
38		benzo[ghi]perylene				1.85	mg/kg		1.85	mg/kg	0.000185 %		
			205-883-8	191-24-2									
39		coronene				0.65	mg/kg		0.65	mg/kg	0.000065 %		
			205-881-7	191-07-1									
40		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		604-001-00-2	203-632-7	108-95-2									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
								Total:	0.137 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (TB) BH301 (ES5)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH301 (ES5)
Sample Depth:
0.5 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.7	mg/kg	1.20	0.838	mg/kg	0.000084 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13	mg/kg	1.32	17.164	mg/kg	0.00172 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.944	mg/kg	2.78	2.62	mg/kg	0.000262 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		2.5	mg/kg	3.22	8.05	mg/kg	0.000805 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.28	mg/kg	1.14	0.32	mg/kg	0.000032 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		31.2	mg/kg	1.46	45.601	mg/kg	0.00456 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.92	<0.192	mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		29.4	mg/kg	1.13	33.101	mg/kg	0.00331 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	62.3	mg/kg	1.56	97.176	mg/kg	0.00623 %		
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.17	mg/kg	1.35	0.23	mg/kg	0.000023 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		30.2	mg/kg	2.98	89.883	mg/kg	0.00899 %		
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<**LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		91.3	mg/kg	2.47	225.447	mg/kg	0.0225 %		

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
14	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		46.7	mg/kg	1.79	83.368	mg/kg	0.00834 %		
15	TPH (C6 to C40) petroleum group			TPH		<40.42	mg/kg		<40.42	mg/kg	<0.00404 %		<LOD
16	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
17	benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
18	toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
19	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
20	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
21	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
22	pH			PH		7.9	pH		7.9	pH	7.9 pH		
23	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
24	acenaphthylene		205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
25	acenaphthene		201-469-6	83-32-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
26	fluorene		201-695-5	86-73-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
27	phenanthrene		201-581-5	85-01-8		0.15	mg/kg		0.15	mg/kg	0.000015 %		
28	anthracene		204-371-1	120-12-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
29	fluoranthene		205-912-4	206-44-0		0.2	mg/kg		0.2	mg/kg	0.00002 %		
30	pyrene		204-927-3	129-00-0		0.2	mg/kg		0.2	mg/kg	0.00002 %		
31	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.13	mg/kg		0.13	mg/kg	0.000013 %		
32	chrysene	601-048-00-0	205-923-4	218-01-9		0.13	mg/kg		0.13	mg/kg	0.000013 %		
33	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.14	mg/kg		0.14	mg/kg	0.000014 %		
34	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
35	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.09	mg/kg		0.09	mg/kg	0.000009 %		
36	indeno[123-cd]pyrene		205-893-2	193-39-5		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
37	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
38	benzo[ghi]perylene		205-883-8	191-24-2		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
39	phenol	604-001-00-2	203-632-7	108-95-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
40	polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.035	mg/kg		<0.035	mg/kg	<0.0000035 %		<LOD

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
								Total:	0.0614 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: (TB) BH302 (ES1)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH302 (ES1)
Sample Depth:
0.2 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		3.1 mg/kg	1.20	3.711 mg/kg	0.000371 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		27.3 mg/kg	1.32	36.045 mg/kg	0.0036 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.24 mg/kg	2.78	3.441 mg/kg	0.000344 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.7 mg/kg	3.22	5.474 mg/kg	0.000547 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.64 mg/kg	1.14	0.731 mg/kg	0.000073 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		32.9 mg/kg	1.46	48.085 mg/kg	0.00481 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		107.9 mg/kg	1.13	121.483 mg/kg	0.0121 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	258.2 mg/kg	1.56	402.744 mg/kg	0.02582 %		
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.77 mg/kg	1.35	1.042 mg/kg	0.000104 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		33.2 mg/kg	2.98	98.812 mg/kg	0.00988 %		
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				0.8 mg/kg	2.55	2.043 mg/kg	0.000204 %		
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		174.8 mg/kg	2.47	431.633 mg/kg	0.0432 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				63.3	mg/kg	1.79	113.002	mg/kg	0.0113 %		
		023-001-00-8	215-239-8	1314-62-1									
15		TPH (C6 to C40) petroleum group				162.42	mg/kg		162.42	mg/kg	0.0162 %		
				TPH									
16		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
19		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
20		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<**LOD**
		006-007-00-5											
21		pH				8	pH		8	pH	8pH		
				PH									
22		naphthalene				0.43	mg/kg		0.43	mg/kg	0.000043 %		
		601-052-00-2	202-049-5	91-20-3									
23		acenaphthylene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
			205-917-1	208-96-8									
24		acenaphthene				0.42	mg/kg		0.42	mg/kg	0.000042 %		
			201-469-6	83-32-9									
25		fluorene				0.33	mg/kg		0.33	mg/kg	0.000033 %		
			201-695-5	86-73-7									
26		phenanthrene				4.09	mg/kg		4.09	mg/kg	0.000409 %		
			201-581-5	85-01-8									
27		anthracene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
			204-371-1	120-12-7									
28		fluoranthene				6.02	mg/kg		6.02	mg/kg	0.000602 %		
			205-912-4	206-44-0									
29		pyrene				4.91	mg/kg		4.91	mg/kg	0.000491 %		
			204-927-3	129-00-0									
30		benzo[a]anthracene				2.87	mg/kg		2.87	mg/kg	0.000287 %		
		601-033-00-9	200-280-6	56-55-3									
31		chrysene				2.99	mg/kg		2.99	mg/kg	0.000299 %		
		601-048-00-0	205-923-4	218-01-9									
32		benzo[b]fluoranthene				3.7	mg/kg		3.7	mg/kg	0.00037 %		
		601-034-00-4	205-911-9	205-99-2									
33		benzo[k]fluoranthene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
		601-036-00-5	205-916-6	207-08-9									
34		benzo[a]pyrene; benzo[def]chrysene				2.82	mg/kg		2.82	mg/kg	0.000282 %		
		601-032-00-3	200-028-5	50-32-8									
35		indeno[123-cd]pyrene				2.05	mg/kg		2.05	mg/kg	0.000205 %		
			205-893-2	193-39-5									
36		dibenz[a,h]anthracene				0.48	mg/kg		0.48	mg/kg	0.000048 %		
		601-041-00-2	200-181-8	53-70-3									
37		benzo[ghi]perylene				1.76	mg/kg		1.76	mg/kg	0.000176 %		
			205-883-8	191-24-2									
38		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.132 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (TB) BH302 (ES6)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH302 (ES6)
Sample Depth:
0.7 m
Moisture content:
20.7%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 20.7% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.6	mg/kg	1.20	0.718	mg/kg	0.000072 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13	mg/kg	1.32	17.164	mg/kg	0.00172 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.857	mg/kg	2.78	2.378	mg/kg	0.000238 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.9	mg/kg	3.22	6.118	mg/kg	0.000612 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.27	mg/kg	1.14	0.308	mg/kg	0.000031 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		30.3	mg/kg	1.46	44.285	mg/kg	0.00443 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.92	<0.192	mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		20.3	mg/kg	1.13	22.856	mg/kg	0.00229 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	63.3	mg/kg	1.56	98.736	mg/kg	0.00633 %		
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.18	mg/kg	1.35	0.244	mg/kg	0.000024 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		29.8	mg/kg	2.98	88.693	mg/kg	0.00887 %		
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<**LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		77.4	mg/kg	2.47	191.124	mg/kg	0.0191 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				46.4	mg/kg	1.79	82.833	mg/kg	0.00828 %		
		023-001-00-8	215-239-8	1314-62-1									
15		TPH (C6 to C40) petroleum group				<40.42	mg/kg		<40.42	mg/kg	<0.00404 %		<LOD
				TPH									
16		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
17		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
18		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
19		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
21		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
		006-007-00-5											
22		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
23		naphthalene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
24		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
25		acenaphthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-469-6	83-32-9									
26		fluorene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-695-5	86-73-7									
27		phenanthrene				0.13	mg/kg		0.13	mg/kg	0.000013 %		
			201-581-5	85-01-8									
28		anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-371-1	120-12-7									
29		fluoranthene				0.18	mg/kg		0.18	mg/kg	0.000018 %		
			205-912-4	206-44-0									
30		pyrene				0.16	mg/kg		0.16	mg/kg	0.000016 %		
			204-927-3	129-00-0									
31		benzo[a]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-033-00-9	200-280-6	56-55-3									
32		chrysene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-048-00-0	205-923-4	218-01-9									
33		benzo[b]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-034-00-4	205-911-9	205-99-2									
34		benzo[k]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
35		benzo[a]pyrene; benzo[def]chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
36		indeno[123-cd]pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-893-2	193-39-5									
37		dibenz[a,h]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
38		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-883-8	191-24-2									
39		coronene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-881-7	191-07-1									
40		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		604-001-00-2	203-632-7	108-95-2									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
								Total:	0.0565 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: (TB) BH303 (ES1)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH303 (ES1)
Sample Depth:
0.2 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		4.7 mg/kg	1.20	5.626 mg/kg	0.000563 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		34.2 mg/kg	1.32	45.155 mg/kg	0.00452 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.3 mg/kg	2.78	3.608 mg/kg	0.000361 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.7 mg/kg	3.22	5.474 mg/kg	0.000547 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.85 mg/kg	1.14	0.971 mg/kg	0.000097 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		30 mg/kg	1.46	43.847 mg/kg	0.00438 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		143.4 mg/kg	1.13	161.452 mg/kg	0.0161 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	373.6 mg/kg	1.56	582.747 mg/kg	0.03736 %		
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.94 mg/kg	1.35	1.272 mg/kg	0.000127 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		30.5 mg/kg	2.98	90.776 mg/kg	0.00908 %		
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1 mg/kg	2.55	2.554 mg/kg	0.000255 %		
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		217.5 mg/kg	2.47	537.072 mg/kg	0.0537 %		

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
14		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		63.4	mg/kg	1.79	113.181	mg/kg	0.0113 %		
15		TPH (C6 to C40) petroleum group			TPH		441.22	mg/kg		441.22	mg/kg	0.0441 %		
16		benzene	601-020-00-8	200-753-7	71-43-2		0.002	mg/kg		0.002	mg/kg	0.0000002 %		
17		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
18		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
19		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<**LOD**
20		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.6	mg/kg	1.88	1.13	mg/kg	0.000113 %		
21		pH			PH		8.1	pH		8.1	pH	8.1 pH		
22		naphthalene	601-052-00-2	202-049-5	91-20-3		0.45	mg/kg		0.45	mg/kg	0.000045 %		
23		acenaphthylene		205-917-1	208-96-8		0.12	mg/kg		0.12	mg/kg	0.000012 %		
24		acenaphthene		201-469-6	83-32-9		1.38	mg/kg		1.38	mg/kg	0.000138 %		
25		fluorene		201-695-5	86-73-7		0.74	mg/kg		0.74	mg/kg	0.000074 %		
26		phenanthrene		201-581-5	85-01-8		11.1	mg/kg		11.1	mg/kg	0.00111 %		
27		anthracene		204-371-1	120-12-7		2.52	mg/kg		2.52	mg/kg	0.000252 %		
28		fluoranthene		205-912-4	206-44-0		15.4	mg/kg		15.4	mg/kg	0.00154 %		
29		pyrene		204-927-3	129-00-0		13.2	mg/kg		13.2	mg/kg	0.00132 %		
30		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		7.8	mg/kg		7.8	mg/kg	0.00078 %		
31		chrysene	601-048-00-0	205-923-4	218-01-9		8.19	mg/kg		8.19	mg/kg	0.000819 %		
32		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		8.63	mg/kg		8.63	mg/kg	0.000863 %		
33		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		2.76	mg/kg		2.76	mg/kg	0.000276 %		
34		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		6.72	mg/kg		6.72	mg/kg	0.000672 %		
35		indeno[123-cd]pyrene		205-893-2	193-39-5		4.31	mg/kg		4.31	mg/kg	0.000431 %		
36		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		1.02	mg/kg		1.02	mg/kg	0.000102 %		
37		benzo[ghi]perylene		205-883-8	191-24-2		3.82	mg/kg		3.82	mg/kg	0.000382 %		
38		phenol	604-001-00-2	203-632-7	108-95-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
											Total:	0.192 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (TB) BH303 (ES4)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH303 (ES4)
Sample Depth:
0.5 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.2	mg/kg	1.20	1.437	mg/kg	0.000144 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		15.8	mg/kg	1.32	20.861	mg/kg	0.00209 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.03	mg/kg	2.78	2.859	mg/kg	0.000286 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		2.4	mg/kg	3.22	7.728	mg/kg	0.000773 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.32	mg/kg	1.14	0.366	mg/kg	0.000037 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		33.3	mg/kg	1.46	48.67	mg/kg	0.00487 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.92	<0.192	mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		32.6	mg/kg	1.13	36.704	mg/kg	0.00367 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	99.5	mg/kg	1.56	155.202	mg/kg	0.00995 %		
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1.18	mg/kg	1.35	1.597	mg/kg	0.00016 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		32.8	mg/kg	2.98	97.621	mg/kg	0.00976 %		
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<**LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		96.8	mg/kg	2.47	239.028	mg/kg	0.0239 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				53.8	mg/kg	1.79	96.043	mg/kg	0.0096 %		
		023-001-00-8	215-239-8	1314-62-1									
15		TPH (C6 to C40) petroleum group				98.92	mg/kg		98.92	mg/kg	0.00989 %		
				TPH									
16		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
17		benzene				0.001	mg/kg		0.001	mg/kg	0.0000001 %		
		601-020-00-8	200-753-7	71-43-2									
18		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
19		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
21		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
		006-007-00-5											
22		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
23		naphthalene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
24		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
25		acenaphthene				0.24	mg/kg		0.24	mg/kg	0.000024 %		
			201-469-6	83-32-9									
26		fluorene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-695-5	86-73-7									
27		phenanthrene				3.6	mg/kg		3.6	mg/kg	0.00036 %		
			201-581-5	85-01-8									
28		anthracene				0.81	mg/kg		0.81	mg/kg	0.000081 %		
			204-371-1	120-12-7									
29		fluoranthene				4.74	mg/kg		4.74	mg/kg	0.000474 %		
			205-912-4	206-44-0									
30		pyrene				3.64	mg/kg		3.64	mg/kg	0.000364 %		
			204-927-3	129-00-0									
31		benzo[a]anthracene				2.26	mg/kg		2.26	mg/kg	0.000226 %		
		601-033-00-9	200-280-6	56-55-3									
32		chrysene				2.11	mg/kg		2.11	mg/kg	0.000211 %		
		601-048-00-0	205-923-4	218-01-9									
33		benzo[b]fluoranthene				2.3	mg/kg		2.3	mg/kg	0.00023 %		
		601-034-00-4	205-911-9	205-99-2									
34		benzo[k]fluoranthene				0.88	mg/kg		0.88	mg/kg	0.000088 %		
		601-036-00-5	205-916-6	207-08-9									
35		benzo[a]pyrene; benzo[def]chrysene				1.68	mg/kg		1.68	mg/kg	0.000168 %		
		601-032-00-3	200-028-5	50-32-8									
36		indeno[123-cd]pyrene				1.05	mg/kg		1.05	mg/kg	0.000105 %		
			205-893-2	193-39-5									
37		dibenz[a,h]anthracene				0.26	mg/kg		0.26	mg/kg	0.000026 %		
		601-041-00-2	200-181-8	53-70-3									
38		benzo[ghi]perylene				0.83	mg/kg		0.83	mg/kg	0.000083 %		
			205-883-8	191-24-2									
39		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0779 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (TB) BH304 (ES1)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH304 (ES1)
Sample Depth:
0.2 m
Moisture content:
13.5%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13.5% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		2 mg/kg	1.20	2.394 mg/kg	0.000239 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17 mg/kg	1.32	22.446 mg/kg	0.00224 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.588 mg/kg	2.78	1.632 mg/kg	0.000163 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.2 mg/kg	3.22	3.864 mg/kg	0.000386 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.55 mg/kg	1.14	0.628 mg/kg	0.000063 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		17.1 mg/kg	1.46	24.993 mg/kg	0.0025 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		39.3 mg/kg	1.13	44.247 mg/kg	0.00442 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	248 mg/kg	1.56	386.834 mg/kg	0.0248 %		
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.22 mg/kg	1.35	0.298 mg/kg	0.00003 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		18.1 mg/kg	2.98	53.87 mg/kg	0.00539 %		
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	2.55	<1.277 mg/kg	<0.000128 %		<**LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		99.8 mg/kg	2.47	246.436 mg/kg	0.0246 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				36.7	mg/kg	1.79	65.516	mg/kg	0.00655 %		
		023-001-00-8	215-239-8	1314-62-1									
15		TPH (C6 to C40) petroleum group				90.32	mg/kg		90.32	mg/kg	0.00903 %		
				TPH									
16		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
17		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
18		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
19		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
21		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
		006-007-00-5											
22		pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
23		naphthalene				0.08	mg/kg		0.08	mg/kg	0.000008 %		
		601-052-00-2	202-049-5	91-20-3									
24		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
25		acenaphthene				0.12	mg/kg		0.12	mg/kg	0.000012 %		
			201-469-6	83-32-9									
26		fluorene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-695-5	86-73-7									
27		phenanthrene				1.13	mg/kg		1.13	mg/kg	0.000113 %		
			201-581-5	85-01-8									
28		anthracene				0.29	mg/kg		0.29	mg/kg	0.000029 %		
			204-371-1	120-12-7									
29		fluoranthene				1.88	mg/kg		1.88	mg/kg	0.000188 %		
			205-912-4	206-44-0									
30		pyrene				1.57	mg/kg		1.57	mg/kg	0.000157 %		
			204-927-3	129-00-0									
31		benzo[a]anthracene				0.95	mg/kg		0.95	mg/kg	0.000095 %		
		601-033-00-9	200-280-6	56-55-3									
32		chrysene				1.04	mg/kg		1.04	mg/kg	0.000104 %		
		601-048-00-0	205-923-4	218-01-9									
33		benzo[b]fluoranthene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
		601-034-00-4	205-911-9	205-99-2									
34		benzo[k]fluoranthene				0.44	mg/kg		0.44	mg/kg	0.000044 %		
		601-036-00-5	205-916-6	207-08-9									
35		benzo[a]pyrene; benzo[def]chrysene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
		601-032-00-3	200-028-5	50-32-8									
36		indeno[123-cd]pyrene				0.67	mg/kg		0.67	mg/kg	0.000067 %		
			205-893-2	193-39-5									
37		dibenz[a,h]anthracene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		601-041-00-2	200-181-8	53-70-3									
38		benzo[ghi]perylene				0.63	mg/kg		0.63	mg/kg	0.000063 %		
			205-883-8	191-24-2									
39		coronene				0.22	mg/kg		0.22	mg/kg	0.000022 %		
			205-881-7	191-07-1									
40		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		604-001-00-2	203-632-7	108-95-2									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
								Total:	0.0819 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (TB) BH305 (ES1)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH305 (ES1)
Sample Depth:
0.2 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		10.1	mg/kg	1.20	12.091	mg/kg	0.00121 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		19.4	mg/kg	1.32	25.614	mg/kg	0.00256 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.35	mg/kg	2.78	3.747	mg/kg	0.000375 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		2.1	mg/kg	3.22	6.762	mg/kg	0.000676 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.84	mg/kg	1.14	0.96	mg/kg	0.000096 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		35.7	mg/kg	1.46	52.178	mg/kg	0.00522 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.92	<0.192	mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		94	mg/kg	1.13	105.834	mg/kg	0.0106 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	744.7	mg/kg	1.56	1161.594	mg/kg	0.07447 %		
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.53	mg/kg	1.35	0.717	mg/kg	0.000072 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		28.9	mg/kg	2.98	86.014	mg/kg	0.0086 %		
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				0.8	mg/kg	2.55	2.043	mg/kg	0.000204 %		
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		169.4	mg/kg	2.47	418.299	mg/kg	0.0418 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				65.4	mg/kg	1.79	116.751	mg/kg	0.0117 %		
		023-001-00-8	215-239-8	1314-62-1									
15		TPH (C6 to C40) petroleum group				211.22	mg/kg		211.22	mg/kg	0.0211 %		
				TPH									
16		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
17		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
18		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
19		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
20		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<**LOD**
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
21		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<**LOD**
		006-007-00-5											
22		pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
23		naphthalene				0.21	mg/kg		0.21	mg/kg	0.000021 %		
		601-052-00-2	202-049-5	91-20-3									
24		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
			205-917-1	208-96-8									
25		acenaphthene				0.39	mg/kg		0.39	mg/kg	0.000039 %		
			201-469-6	83-32-9									
26		fluorene				0.28	mg/kg		0.28	mg/kg	0.000028 %		
			201-695-5	86-73-7									
27		phenanthrene				3.62	mg/kg		3.62	mg/kg	0.000362 %		
			201-581-5	85-01-8									
28		anthracene				0.86	mg/kg		0.86	mg/kg	0.000086 %		
			204-371-1	120-12-7									
29		fluoranthene				6.14	mg/kg		6.14	mg/kg	0.000614 %		
			205-912-4	206-44-0									
30		pyrene				5.08	mg/kg		5.08	mg/kg	0.000508 %		
			204-927-3	129-00-0									
31		benzo[a]anthracene				3.09	mg/kg		3.09	mg/kg	0.000309 %		
		601-033-00-9	200-280-6	56-55-3									
32		chrysene				3.3	mg/kg		3.3	mg/kg	0.00033 %		
		601-048-00-0	205-923-4	218-01-9									
33		benzo[b]fluoranthene				3.79	mg/kg		3.79	mg/kg	0.000379 %		
		601-034-00-4	205-911-9	205-99-2									
34		benzo[k]fluoranthene				1.51	mg/kg		1.51	mg/kg	0.000151 %		
		601-036-00-5	205-916-6	207-08-9									
35		benzo[a]pyrene; benzo[def]chrysene				2.94	mg/kg		2.94	mg/kg	0.000294 %		
		601-032-00-3	200-028-5	50-32-8									
36		indeno[123-cd]pyrene				2.21	mg/kg		2.21	mg/kg	0.000221 %		
			205-893-2	193-39-5									
37		dibenz[a,h]anthracene				0.49	mg/kg		0.49	mg/kg	0.000049 %		
		601-041-00-2	200-181-8	53-70-3									
38		benzo[ghi]perylene				1.92	mg/kg		1.92	mg/kg	0.000192 %		
			205-883-8	191-24-2									
39		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
40		polychlorobiphenyls; PCB				<0.035	mg/kg		<0.035	mg/kg	<0.0000035 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
								Total:	0.182 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (TB) BH305 (ES4)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH305 (ES4)
Sample Depth:
0.4 m
Moisture content:
19.7%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 19.7% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		2.6 mg/kg	1.20	3.112 mg/kg	0.000311 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17.2 mg/kg	1.32	22.71 mg/kg	0.00227 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.988 mg/kg	2.78	2.742 mg/kg	0.000274 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		2.5 mg/kg	3.22	8.05 mg/kg	0.000805 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.34 mg/kg	1.14	0.388 mg/kg	0.000039 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		30.3 mg/kg	1.46	44.285 mg/kg	0.00443 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		274.4 mg/kg	1.13	308.944 mg/kg	0.0309 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	131.2 mg/kg	1.56	204.648 mg/kg	0.01312 %		
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.31 mg/kg	1.35	0.42 mg/kg	0.000042 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		31 mg/kg	2.98	92.264 mg/kg	0.00923 %		
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	2.55	<1.277 mg/kg	<0.000128 %		<**LOD**
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		173.6 mg/kg	2.47	428.67 mg/kg	0.0429 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				50.2	mg/kg	1.79	89.616	mg/kg	0.00896 %		
		023-001-00-8	215-239-8	1314-62-1									
15		TPH (C6 to C40) petroleum group				94.72	mg/kg		94.72	mg/kg	0.00947 %		
				TPH									
16		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
17		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
18		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
19		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
21		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
		006-007-00-5											
22		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
23		naphthalene				1.09	mg/kg		1.09	mg/kg	0.000109 %		
		601-052-00-2	202-049-5	91-20-3									
24		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
25		acenaphthene				0.62	mg/kg		0.62	mg/kg	0.000062 %		
			201-469-6	83-32-9									
26		fluorene				0.37	mg/kg		0.37	mg/kg	0.000037 %		
			201-695-5	86-73-7									
27		phenanthrene				3.38	mg/kg		3.38	mg/kg	0.000338 %		
			201-581-5	85-01-8									
28		anthracene				0.74	mg/kg		0.74	mg/kg	0.000074 %		
			204-371-1	120-12-7									
29		fluoranthene				3.44	mg/kg		3.44	mg/kg	0.000344 %		
			205-912-4	206-44-0									
30		pyrene				2.76	mg/kg		2.76	mg/kg	0.000276 %		
			204-927-3	129-00-0									
31		benzo[a]anthracene				1.53	mg/kg		1.53	mg/kg	0.000153 %		
		601-033-00-9	200-280-6	56-55-3									
32		chrysene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
		601-048-00-0	205-923-4	218-01-9									
33		benzo[b]fluoranthene				1.67	mg/kg		1.67	mg/kg	0.000167 %		
		601-034-00-4	205-911-9	205-99-2									
34		benzo[k]fluoranthene				0.68	mg/kg		0.68	mg/kg	0.000068 %		
		601-036-00-5	205-916-6	207-08-9									
35		benzo[a]pyrene; benzo[def]chrysene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
		601-032-00-3	200-028-5	50-32-8									
36		indeno[123-cd]pyrene				0.78	mg/kg		0.78	mg/kg	0.000078 %		
			205-893-2	193-39-5									
37		dibenz[a,h]anthracene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
		601-041-00-2	200-181-8	53-70-3									
38		benzo[ghi]perylene				0.75	mg/kg		0.75	mg/kg	0.000075 %		
			205-883-8	191-24-2									
39		coronene				0.22	mg/kg		0.22	mg/kg	0.000022 %		
			205-881-7	191-07-1									
40		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		604-001-00-2	203-632-7	108-95-2									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
								Total:	0.125 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (TB) BH306 (ES4)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH306 (ES4)
Sample Depth:
0.7 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		1.1	mg/kg	1.20	1.317	mg/kg	0.000132 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12.1	mg/kg	1.32	15.976	mg/kg	0.0016 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.832	mg/kg	2.78	2.309	mg/kg	0.000231 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		2	mg/kg	3.22	6.44	mg/kg	0.000644 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.26	mg/kg	1.14	0.297	mg/kg	0.00003 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		29.3	mg/kg	1.46	42.824	mg/kg	0.00428 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.92	<0.192	mg/kg	<0.000019 %		<LOD
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		24.1	mg/kg	1.13	27.134	mg/kg	0.00271 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	120.3	mg/kg	1.56	187.646	mg/kg	0.01203 %		
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.2	mg/kg	1.35	0.271	mg/kg	0.000027 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		28.3	mg/kg	2.98	84.228	mg/kg	0.00842 %		
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<LOD
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		85	mg/kg	2.47	209.89	mg/kg	0.021 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				46.1	mg/kg	1.79	82.297	mg/kg	0.00823 %		
		023-001-00-8	215-239-8	1314-62-1									
15		TPH (C6 to C40) petroleum group				<40.42	mg/kg		<40.42	mg/kg	<0.00404 %		<LOD
				TPH									
16		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
17		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
18		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
19		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
20		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
		006-007-00-5											
21		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
22		naphthalene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
23		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
24		acenaphthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-469-6	83-32-9									
25		fluorene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-695-5	86-73-7									
26		phenanthrene				0.08	mg/kg		0.08	mg/kg	0.000008 %		
			201-581-5	85-01-8									
27		anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-371-1	120-12-7									
28		fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-912-4	206-44-0									
29		pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-927-3	129-00-0									
30		benzo[a]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
31		chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
32		benzo[b]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
33		benzo[k]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
34		benzo[a]pyrene; benzo[def]chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
35		indeno[123-cd]pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-893-2	193-39-5									
36		dibenz[a,h]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
37		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-883-8	191-24-2									
38		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.0638 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: (TB) BH307 (ES1)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH307 (ES1)
Sample Depth:
0.2 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		6.7 mg/kg	1.20	8.021 mg/kg	0.000802 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		27.9 mg/kg	1.32	36.837 mg/kg	0.00368 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.32 mg/kg	2.78	3.663 mg/kg	0.000366 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		3.1 mg/kg	3.22	9.982 mg/kg	0.000998 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		1.37 mg/kg	1.14	1.565 mg/kg	0.000156 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		33.7 mg/kg	1.46	49.254 mg/kg	0.00493 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		**<LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		232.6 mg/kg	1.13	261.882 mg/kg	0.0262 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	763.8 mg/kg	1.56	1191.387 mg/kg	0.07638 %		
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1.4 mg/kg	1.35	1.895 mg/kg	0.000189 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		33.7 mg/kg	2.98	100.3 mg/kg	0.01 %		
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.5 mg/kg	2.55	3.83 mg/kg	0.000383 %		
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		276.1 mg/kg	2.47	681.773 mg/kg	0.0682 %		

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
14		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		68.8	mg/kg	1.79	122.821	mg/kg	0.0123 %		
15		TPH (C6 to C40) petroleum group			TPH		167.92	mg/kg		167.92	mg/kg	0.0168 %		
16		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
17		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
18		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
19		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
20		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
21		pH			PH		8.2	pH		8.2	pH	8.2 pH		
22		naphthalene	601-052-00-2	202-049-5	91-20-3		0.26	mg/kg		0.26	mg/kg	0.000026 %		
23		acenaphthylene		205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
24		acenaphthene		201-469-6	83-32-9		0.27	mg/kg		0.27	mg/kg	0.000027 %		
25		fluorene		201-695-5	86-73-7		0.2	mg/kg		0.2	mg/kg	0.00002 %		
26		phenanthrene		201-581-5	85-01-8		2.88	mg/kg		2.88	mg/kg	0.000288 %		
27		anthracene		204-371-1	120-12-7		0.55	mg/kg		0.55	mg/kg	0.000055 %		
28		fluoranthene		205-912-4	206-44-0		4.92	mg/kg		4.92	mg/kg	0.000492 %		
29		pyrene		204-927-3	129-00-0		4.04	mg/kg		4.04	mg/kg	0.000404 %		
30		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		2.47	mg/kg		2.47	mg/kg	0.000247 %		
31		chrysene	601-048-00-0	205-923-4	218-01-9		2.72	mg/kg		2.72	mg/kg	0.000272 %		
32		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		3.26	mg/kg		3.26	mg/kg	0.000326 %		
33		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		1.01	mg/kg		1.01	mg/kg	0.000101 %		
34		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		2.42	mg/kg		2.42	mg/kg	0.000242 %		
35		indeno[123-cd]pyrene		205-893-2	193-39-5		1.79	mg/kg		1.79	mg/kg	0.000179 %		
36		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.4	mg/kg		0.4	mg/kg	0.00004 %		
37		benzo[ghi]perylene		205-883-8	191-24-2		1.58	mg/kg		1.58	mg/kg	0.000158 %		
38		phenol	604-001-00-2	203-632-7	108-95-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
											Total:	0.224 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (TB) BH307 (ES4)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH307 (ES4)
Sample Depth:
0.5 m
Moisture content:
19.6%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 19.6% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	antimony { antimony trioxide }		1.1 mg/kg	1.20	1.317 mg/kg	0.000132 %		
	051-005-00-X / 215-175-0 / 1309-64-4							
2	arsenic { arsenic trioxide }		15.8 mg/kg	1.32	20.861 mg/kg	0.00209 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
3	beryllium { beryllium oxide }		1.08 mg/kg	2.78	2.997 mg/kg	0.0003 %		
	004-003-00-8 / 215-133-1 / 1304-56-9							
4	boron { diboron trioxide; boric oxide }		2.1 mg/kg	3.22	6.762 mg/kg	0.000676 %		
	005-008-00-8 / 215-125-8 / 1303-86-2							
5	cadmium { cadmium oxide }		0.32 mg/kg	1.14	0.366 mg/kg	0.000037 %		
	048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]							
6	chromium in chromium(III) compounds { chromium(III) oxide }		34.7 mg/kg	1.46	50.716 mg/kg	0.00507 %		
	/ 215-160-9 / 1308-38-9							
7	chromium in chromium(VI) compounds { chromium(VI) oxide }		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<LOD
	024-001-00-0 / 215-607-8 / 1333-82-0							
8	copper { dicopper oxide; copper (I) oxide }		35.6 mg/kg	1.13	40.082 mg/kg	0.00401 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
9	lead { lead chromate }	1	121 mg/kg	1.56	188.738 mg/kg	0.0121 %		
	082-004-00-2 / 231-846-0 / 7758-97-6							
10	mercury { mercury dichloride }		0.27 mg/kg	1.35	0.365 mg/kg	0.000037 %		
	080-010-00-X / 231-299-8 / 7487-94-7							
11	nickel { nickel chromate }		34.2 mg/kg	2.98	101.788 mg/kg	0.0102 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }		<0.5 mg/kg	2.55	<1.277 mg/kg	<0.000128 %		<LOD
	034-002-00-8 / /							
13	zinc { zinc sulphate }		108.3 mg/kg	2.47	267.425 mg/kg	0.0267 %		
	030-006-00-9 / 231-793-3 [1] 231-793-3 [2] / 7446-19-7 [1] 7733-02-0 [2]							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				56.1	mg/kg	1.79	100.149	mg/kg	0.01 %		
		023-001-00-8	215-239-8	1314-62-1									
15		TPH (C6 to C40) petroleum group				<40.42	mg/kg		<40.42	mg/kg	<0.00404 %		<LOD
				TPH									
16		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
17		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
18		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
19		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
21		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
		006-007-00-5											
22		pH				8.4	pH		8.4	pH	8.4 pH		
				PH									
23		naphthalene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
24		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
25		acenaphthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-469-6	83-32-9									
26		fluorene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-695-5	86-73-7									
27		phenanthrene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			201-581-5	85-01-8									
28		anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-371-1	120-12-7									
29		fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-912-4	206-44-0									
30		pyrene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
			204-927-3	129-00-0									
31		benzo[a]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
32		chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
33		benzo[b]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
34		benzo[k]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
35		benzo[a]pyrene; benzo[def]chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
36		indeno[123-cd]pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-893-2	193-39-5									
37		dibenz[a,h]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
38		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-883-8	191-24-2									
39		coronene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-881-7	191-07-1									
40		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		604-001-00-2	203-632-7	108-95-2									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
41		polychlorobiphenyls; PCB				<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3							
								Total:	0.0759 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: (TB) BH308 (ES1)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH308 (ES1)
Sample Depth:
0.2 m
Moisture content:
21.1%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 21.1% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		3.9 mg/kg	1.20	4.669 mg/kg	0.000467 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		28.7 mg/kg	1.32	37.893 mg/kg	0.00379 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.35 mg/kg	2.78	3.747 mg/kg	0.000375 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		2.8 mg/kg	3.22	9.016 mg/kg	0.000902 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.97 mg/kg	1.14	1.108 mg/kg	0.000111 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		36.9 mg/kg	1.46	53.931 mg/kg	0.00539 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		**<LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		89.4 mg/kg	1.13	100.654 mg/kg	0.0101 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	357.7 mg/kg	1.56	557.946 mg/kg	0.03577 %		
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1.85 mg/kg	1.35	2.504 mg/kg	0.00025 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		37.7 mg/kg	2.98	112.205 mg/kg	0.0112 %		
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1 mg/kg	2.55	2.554 mg/kg	0.000255 %		
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		287.4 mg/kg	2.47	709.676 mg/kg	0.071 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				69.1	mg/kg	1.79	123.356	mg/kg	0.0123 %		
		023-001-00-8	215-239-8	1314-62-1									
15		TPH (C6 to C40) petroleum group				157.52	mg/kg		157.52	mg/kg	0.0158 %		
				TPH									
16		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
17		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
18		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
19		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
21		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
		006-007-00-5											
22		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
23		naphthalene				0.17	mg/kg		0.17	mg/kg	0.000017 %		
		601-052-00-2	202-049-5	91-20-3									
24		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
25		acenaphthene				0.23	mg/kg		0.23	mg/kg	0.000023 %		
			201-469-6	83-32-9									
26		fluorene				0.16	mg/kg		0.16	mg/kg	0.000016 %		
			201-695-5	86-73-7									
27		phenanthrene				2.62	mg/kg		2.62	mg/kg	0.000262 %		
			201-581-5	85-01-8									
28		anthracene				0.63	mg/kg		0.63	mg/kg	0.000063 %		
			204-371-1	120-12-7									
29		fluoranthene				5.03	mg/kg		5.03	mg/kg	0.000503 %		
			205-912-4	206-44-0									
30		pyrene				4.14	mg/kg		4.14	mg/kg	0.000414 %		
			204-927-3	129-00-0									
31		benzo[a]anthracene				2.58	mg/kg		2.58	mg/kg	0.000258 %		
		601-033-00-9	200-280-6	56-55-3									
32		chrysene				2.69	mg/kg		2.69	mg/kg	0.000269 %		
		601-048-00-0	205-923-4	218-01-9									
33		benzo[b]fluoranthene				3.29	mg/kg		3.29	mg/kg	0.000329 %		
		601-034-00-4	205-911-9	205-99-2									
34		benzo[k]fluoranthene				1.11	mg/kg		1.11	mg/kg	0.000111 %		
		601-036-00-5	205-916-6	207-08-9									
35		benzo[a]pyrene; benzo[def]chrysene				2.47	mg/kg		2.47	mg/kg	0.000247 %		
		601-032-00-3	200-028-5	50-32-8									
36		indeno[123-cd]pyrene				1.87	mg/kg		1.87	mg/kg	0.000187 %		
			205-893-2	193-39-5									
37		dibenz[a,h]anthracene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-041-00-2	200-181-8	53-70-3									
38		benzo[ghi]perylene				1.65	mg/kg		1.65	mg/kg	0.000165 %		
			205-883-8	191-24-2									
39		coronene				0.55	mg/kg		0.55	mg/kg	0.000055 %		
			205-881-7	191-07-1									
40		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		604-001-00-2	203-632-7	108-95-2									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
								Total:	0.171 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (TB) BH308 (ES4)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH308 (ES4)
Sample Depth:
0.4 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		9.1	mg/kg	1.20	10.894	mg/kg	0.00109 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		13.5	mg/kg	1.32	17.824	mg/kg	0.00178 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.944	mg/kg	2.78	2.62	mg/kg	0.000262 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		2.7	mg/kg	3.22	8.694	mg/kg	0.000869 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.31	mg/kg	1.14	0.354	mg/kg	0.000035 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		31.9	mg/kg	1.46	46.624	mg/kg	0.00466 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.92	<0.192	mg/kg	<0.000019 %		<LOD
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		27.4	mg/kg	1.13	30.849	mg/kg	0.00308 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	451.5	mg/kg	1.56	704.257	mg/kg	0.04515 %		
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.12	mg/kg	1.35	0.162	mg/kg	0.000016 %		
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		32.8	mg/kg	2.98	97.621	mg/kg	0.00976 %		
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<LOD
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		90.6	mg/kg	2.47	223.718	mg/kg	0.0224 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				47.1	mg/kg	1.79	84.082	mg/kg	0.00841 %		
		023-001-00-8	215-239-8	1314-62-1									
15		TPH (C6 to C40) petroleum group				40.52	mg/kg		40.52	mg/kg	0.00405 %		
				TPH									
16		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
17		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
18		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
19		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
21		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
		006-007-00-5											
22		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
23		naphthalene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
24		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
25		acenaphthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-469-6	83-32-9									
26		fluorene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-695-5	86-73-7									
27		phenanthrene				0.41	mg/kg		0.41	mg/kg	0.000041 %		
			201-581-5	85-01-8									
28		anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-371-1	120-12-7									
29		fluoranthene				0.66	mg/kg		0.66	mg/kg	0.000066 %		
			205-912-4	206-44-0									
30		pyrene				0.56	mg/kg		0.56	mg/kg	0.000056 %		
			204-927-3	129-00-0									
31		benzo[a]anthracene				0.33	mg/kg		0.33	mg/kg	0.000033 %		
		601-033-00-9	200-280-6	56-55-3									
32		chrysene				0.33	mg/kg		0.33	mg/kg	0.000033 %		
		601-048-00-0	205-923-4	218-01-9									
33		benzo[b]fluoranthene				0.43	mg/kg		0.43	mg/kg	0.000043 %		
		601-034-00-4	205-911-9	205-99-2									
34		benzo[k]fluoranthene				0.16	mg/kg		0.16	mg/kg	0.000016 %		
		601-036-00-5	205-916-6	207-08-9									
35		benzo[a]pyrene; benzo[def]chrysene				0.29	mg/kg		0.29	mg/kg	0.000029 %		
		601-032-00-3	200-028-5	50-32-8									
36		indeno[123-cd]pyrene				0.23	mg/kg		0.23	mg/kg	0.000023 %		
			205-893-2	193-39-5									
37		dibenz[a,h]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
38		benzo[ghi]perylene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-883-8	191-24-2									
39		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.102 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (TB) BH310 (ES1)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH310 (ES1)
Sample Depth:
0.2 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.7 mg/kg	1.20	0.838 mg/kg	0.000084 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12.8 mg/kg	1.32	16.9 mg/kg	0.00169 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.369 mg/kg	2.78	1.024 mg/kg	0.000102 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.5 mg/kg	3.22	1.61 mg/kg	0.000161 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.34 mg/kg	1.14	0.388 mg/kg	0.000039 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		10.8 mg/kg	1.46	15.785 mg/kg	0.00158 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<LOD
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15.1 mg/kg	1.13	17.000914 mg/kg	0.0017 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	73.6 mg/kg	1.56	114.802 mg/kg	0.00736 %		
10	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.35	<0.135 mg/kg	<0.000014 %		<LOD
11	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		14.7 mg/kg	2.98	43.751 mg/kg	0.00438 %		
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	2.55	<1.277 mg/kg	<0.000128 %		<LOD
13	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		37.8 mg/kg	2.47	93.339 mg/kg	0.00933 %		

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
14		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		28.5	mg/kg	1.79	50.878	mg/kg	0.00509 %		
15		TPH (C6 to C40) petroleum group			TPH		<40.42	mg/kg		<40.42	mg/kg	<0.00404 %		<LOD
16		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
17		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
18		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
19		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
20		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
21		pH			PH		8.7	pH		8.7	pH	8.7 pH		
22		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
23		acenaphthylene		205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
24		acenaphthene		201-469-6	83-32-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
25		fluorene		201-695-5	86-73-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
26		phenanthrene		201-581-5	85-01-8		0.29	mg/kg		0.29	mg/kg	0.000029 %		
27		anthracene		204-371-1	120-12-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
28		fluoranthene		205-912-4	206-44-0		0.5	mg/kg		0.5	mg/kg	0.00005 %		
29		pyrene		204-927-3	129-00-0		0.41	mg/kg		0.41	mg/kg	0.000041 %		
30		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.31	mg/kg		0.31	mg/kg	0.000031 %		
31		chrysene	601-048-00-0	205-923-4	218-01-9		0.31	mg/kg		0.31	mg/kg	0.000031 %		
32		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.35	mg/kg		0.35	mg/kg	0.000035 %		
33		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.15	mg/kg		0.15	mg/kg	0.000015 %		
34		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.26	mg/kg		0.26	mg/kg	0.000026 %		
35		indeno[123-cd]pyrene		205-893-2	193-39-5		0.15	mg/kg		0.15	mg/kg	0.000015 %		
36		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
37		benzo[ghi]perylene		205-883-8	191-24-2		0.15	mg/kg		0.15	mg/kg	0.000015 %		
38		phenol	604-001-00-2	203-632-7	108-95-2		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
											Total:	0.0362 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: (TB) BH310 (ES3)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH310 (ES3)
Sample Depth:
0.55 m
Moisture content:
19.1%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 19.1% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	antimony { antimony trioxide }		1.2 mg/kg	1.20	1.437 mg/kg	0.000144 %		
	051-005-00-X / 215-175-0 / 1309-64-4							
2	arsenic { arsenic trioxide }		13.4 mg/kg	1.32	17.692 mg/kg	0.00177 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
3	beryllium { beryllium oxide }		0.697 mg/kg	2.78	1.934 mg/kg	0.000193 %		
	004-003-00-8 / 215-133-1 / 1304-56-9							
4	boron { diboron trioxide; boric oxide }		1.2 mg/kg	3.22	3.864 mg/kg	0.000386 %		
	005-008-00-8 / 215-125-8 / 1303-86-2							
5	cadmium { cadmium oxide }		0.27 mg/kg	1.14	0.308 mg/kg	0.000031 %		
	048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]							
6	chromium in chromium(III) compounds { chromium(III) oxide }		23.7 mg/kg	1.46	34.639 mg/kg	0.00346 %		
	215-160-9 / 1308-38-9							
7	chromium in chromium(VI) compounds { chromium(VI) oxide }		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<LOD
	024-001-00-0 / 215-607-8 / 1333-82-0							
8	copper { dicopper oxide; copper (I) oxide }		28.7 mg/kg	1.13	32.313 mg/kg	0.00323 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
9	lead { lead chromate }	1	185.6 mg/kg	1.56	289.502 mg/kg	0.01856 %		
	082-004-00-2 / 231-846-0 / 7758-97-6							
10	mercury { mercury dichloride }		0.57 mg/kg	1.35	0.771 mg/kg	0.000077 %		
	080-010-00-X / 231-299-8 / 7487-94-7							
11	nickel { nickel chromate }		23.5 mg/kg	2.98	69.942 mg/kg	0.00699 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							
12	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }		<0.5 mg/kg	2.55	<1.277 mg/kg	<0.000128 %		<LOD
	034-002-00-8 / /							
13	zinc { zinc sulphate }		63.9 mg/kg	2.47	157.788 mg/kg	0.0158 %		
	030-006-00-9 / 231-793-3 [1] 231-793-3 [2] / 7446-19-7 [1] 7733-02-0 [2]							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		vanadium { divanadium pentaoxide; vanadium pentoxide }				40.7	mg/kg	1.79	72.657	mg/kg	0.00727 %		
		023-001-00-8	215-239-8	1314-62-1									
15		TPH (C6 to C40) petroleum group				45.12	mg/kg		45.12	mg/kg	0.00451 %		
				TPH									
16		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
17		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
18		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
19		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
20		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
21		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
		006-007-00-5											
22		pH				8.5	pH		8.5	pH	8.5 pH		
				PH									
23		naphthalene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
24		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
25		acenaphthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-469-6	83-32-9									
26		fluorene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-695-5	86-73-7									
27		phenanthrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-581-5	85-01-8									
28		anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-371-1	120-12-7									
29		fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-912-4	206-44-0									
30		pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-927-3	129-00-0									
31		benzo[a]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
32		chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
33		benzo[b]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
34		benzo[k]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
35		benzo[a]pyrene; benzo[def]chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
36		indeno[123-cd]pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-893-2	193-39-5									
37		dibenz[a,h]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
38		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-883-8	191-24-2									
39		coronene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-881-7	191-07-1									
40		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		604-001-00-2	203-632-7	108-95-2									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
41		polychlorobiphenyls; PCB				<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3							
								Total:	0.0628 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (TB) BH302 (ES4)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH302 (ES4)
Sample Depth:
0.4 m
Moisture content:
20.5%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 20.5% No Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	●	TPH (C6 to C40) petroleum group			TPH		88	mg/kg		88	mg/kg	0.0088 %		
2		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
3		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
4		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
5	●	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
6		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<**LOD**
7		naphthalene	601-052-00-2	202-049-5	91-20-3		0.1	mg/kg		0.1	mg/kg	0.00001 %		
8	●	acenaphthylene		205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
9	●	acenaphthene		201-469-6	83-32-9		0.1	mg/kg		0.1	mg/kg	0.00001 %		
10	●	fluorene		201-695-5	86-73-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
11	●	phenanthrene		201-581-5	85-01-8		1.12	mg/kg		1.12	mg/kg	0.000112 %		
12	●	anthracene		204-371-1	120-12-7		0.23	mg/kg		0.23	mg/kg	0.000023 %		
13	●	fluoranthene		205-912-4	206-44-0		1.84	mg/kg		1.84	mg/kg	0.000184 %		
14	●	pyrene		204-927-3	129-00-0		1.58	mg/kg		1.58	mg/kg	0.000158 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
15		benzo[a]anthracene				0.96	mg/kg		0.96	mg/kg	0.000096 %		
		601-033-00-9	200-280-6	56-55-3									
16		chrysene				1.04	mg/kg		1.04	mg/kg	0.000104 %		
		601-048-00-0	205-923-4	218-01-9									
17		benzo[b]fluoranthene				1.24	mg/kg		1.24	mg/kg	0.000124 %		
		601-034-00-4	205-911-9	205-99-2									
18		benzo[k]fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-036-00-5	205-916-6	207-08-9									
19		benzo[a]pyrene; benzo[def]chrysene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
		601-032-00-3	200-028-5	50-32-8									
20	●	indeno[123-cd]pyrene				0.59	mg/kg		0.59	mg/kg	0.000059 %		
			205-893-2	193-39-5									
21		dibenz[a,h]anthracene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
		601-041-00-2	200-181-8	53-70-3									
22	●	benzo[ghi]perylene				0.56	mg/kg		0.56	mg/kg	0.000056 %		
			205-883-8	191-24-2									
23	●	coronene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
			205-881-7	191-07-1									
										Total:	0.00993 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
<LOD	Below limit of detection

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (TB) BH306 (ES8)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH306 (ES8)
Sample Depth:
2 m
Moisture content:
13.9%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13.9% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		3.2 mg/kg	1.20	3.831 mg/kg	0.000383 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		12.4 mg/kg	1.32	16.372 mg/kg	0.00164 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.715 mg/kg	2.78	1.984 mg/kg	0.000198 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.7 mg/kg	3.22	5.474 mg/kg	0.000547 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.2 mg/kg	1.14	0.228 mg/kg	0.000023 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		24.3 mg/kg	1.46	35.516 mg/kg	0.00355 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		20.1 mg/kg	1.13	22.63 mg/kg	0.00226 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	281.6 mg/kg	1.56	439.244 mg/kg	0.02816 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		519.2 mg/kg	2.75	1427.054 mg/kg	0.143 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.16 mg/kg	1.35	0.217 mg/kg	0.000022 %		
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.3 mg/kg	1.50	1.95 mg/kg	0.000195 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23 mg/kg	2.98	68.454 mg/kg	0.00685 %		

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<LOD
15		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		68	mg/kg	2.47	167.912	mg/kg	0.0168 %		
16		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		39.7	mg/kg	1.79	70.872	mg/kg	0.00709 %		
17		TPH (C6 to C40) petroleum group			TPH		<40.42	mg/kg		<40.42	mg/kg	<0.00404 %		<LOD
18		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
19		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
20		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
22		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
23		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
24		pH			PH		8.9	pH		8.9	pH	8.9 pH		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
26		acenaphthylene		205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
27		acenaphthene		201-469-6	83-32-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
28		fluorene		201-695-5	86-73-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
29		phenanthrene		201-581-5	85-01-8		0.16	mg/kg		0.16	mg/kg	0.000016 %		
30		anthracene		204-371-1	120-12-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
31		fluoranthene		205-912-4	206-44-0		0.26	mg/kg		0.26	mg/kg	0.000026 %		
32		pyrene		204-927-3	129-00-0		0.23	mg/kg		0.23	mg/kg	0.000023 %		
33		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.15	mg/kg		0.15	mg/kg	0.000015 %		
34		chrysene	601-048-00-0	205-923-4	218-01-9		0.17	mg/kg		0.17	mg/kg	0.000017 %		
35		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.2	mg/kg		0.2	mg/kg	0.00002 %		
36		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.09	mg/kg		0.09	mg/kg	0.000009 %		
37		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.15	mg/kg		0.15	mg/kg	0.000015 %		
38		indeno[123-cd]pyrene		205-893-2	193-39-5		0.1	mg/kg		0.1	mg/kg	0.00001 %		
39		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-883-8	191-24-2									
41		coronene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
43		tetrachloroethylene				0.006	mg/kg		0.006	mg/kg	0.0000006 %		
		602-028-00-4	204-825-9	127-18-4									
44		polychlorobiphenyls; PCB				<0.038	mg/kg		<0.038	mg/kg	<0.0000038 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.215 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: (TB) BH306 (ES16)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH306 (ES16)
Sample Depth:
4.5 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.5	mg/kg	1.20	0.599	mg/kg	0.00006 %		
2		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		9.2	mg/kg	1.32	12.147	mg/kg	0.00121 %		
3		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.592	mg/kg	2.78	1.643	mg/kg	0.000164 %		
4		boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		3.8	mg/kg	3.22	12.236	mg/kg	0.00122 %		
5		cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.15	mg/kg	1.14	0.171	mg/kg	0.000017 %		
6		chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		21.5	mg/kg	1.46	31.423	mg/kg	0.00314 %		
7		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.92	<0.192	mg/kg	<0.000019 %		<**LOD**
8		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		11.8	mg/kg	1.13	13.285	mg/kg	0.00133 %		
9		lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	21.3	mg/kg	1.56	33.224	mg/kg	0.00213 %		
10		manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		523.4	mg/kg	2.75	1438.598	mg/kg	0.144 %		
11		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.35	<0.135	mg/kg	<0.000014 %		<**LOD**
12		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.6	mg/kg	1.50	0.9	mg/kg	0.00009 %		
13		nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		23.2	mg/kg	2.98	69.049	mg/kg	0.0069 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<LOD
		034-002-00-8											
15		zinc { zinc sulphate }				56.2	mg/kg	2.47	138.774	mg/kg	0.0139 %		
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
16		vanadium { divanadium pentaoxide; vanadium pentoxide }				31.1	mg/kg	1.79	55.519	mg/kg	0.00555 %		
		023-001-00-8	215-239-8	1314-62-1									
17		TPH (C6 to C40) petroleum group				<40.42	mg/kg		<40.42	mg/kg	<0.00404 %		<LOD
				TPH									
18		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
19		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
20		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
21		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
22		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
23		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
		006-007-00-5											
24		pH				8.7	pH		8.7	pH	8.7 pH		
				PH									
25		naphthalene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
27		acenaphthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-469-6	83-32-9									
28		fluorene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-695-5	86-73-7									
29		phenanthrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-581-5	85-01-8									
30		anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-371-1	120-12-7									
31		fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-912-4	206-44-0									
32		pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-927-3	129-00-0									
33		benzo[a]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
34		chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
35		benzo[b]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
36		benzo[k]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
37		benzo[a]pyrene; benzo[def]chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
38		indeno[123-cd]pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-893-2	193-39-5									
39		dibenz[a,h]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-041-00-2	200-181-8	53-70-3									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
			205-883-8	191-24-2									
41		coronene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.184 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: (TB) BH307 (ES5)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH307 (ES5)
Sample Depth:
2.5 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.4 mg/kg	1.20	0.479 mg/kg	0.000048 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10.6 mg/kg	1.32	13.995 mg/kg	0.0014 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.813 mg/kg	2.78	2.256 mg/kg	0.000226 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		2.7 mg/kg	3.22	8.694 mg/kg	0.000869 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.21 mg/kg	1.14	0.24 mg/kg	0.000024 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		29.7 mg/kg	1.46	43.408 mg/kg	0.00434 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14.2 mg/kg	1.13	15.988 mg/kg	0.0016 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	19.1 mg/kg	1.56	29.792 mg/kg	0.00191 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		616.8 mg/kg	2.75	1695.314 mg/kg	0.17 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.35	<0.135 mg/kg	<0.000014 %		<**LOD**
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.8 mg/kg	1.50	1.2 mg/kg	0.00012 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		29.2 mg/kg	2.98	86.907 mg/kg	0.00869 %		

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<LOD
15		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		78.6	mg/kg	2.47	194.087	mg/kg	0.0194 %		
16		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		40.6	mg/kg	1.79	72.479	mg/kg	0.00725 %		
17		TPH (C6 to C40) petroleum group			TPH		53.32	mg/kg		53.32	mg/kg	0.00533 %		
18		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
19		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
20		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
22		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
23		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
24		pH			PH		7.8	pH		7.8	pH	7.8 pH		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
26		acenaphthylene		205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
27		acenaphthene		201-469-6	83-32-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
28		fluorene		201-695-5	86-73-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
29		phenanthrene		201-581-5	85-01-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
30		anthracene		204-371-1	120-12-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
31		fluoranthene		205-912-4	206-44-0		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
32		pyrene		204-927-3	129-00-0		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
33		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
34		chrysene	601-048-00-0	205-923-4	218-01-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
35		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
36		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
37		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
38		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
39		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
			205-883-8	191-24-2									
41		coronene				<1.28	mg/kg		<1.28	mg/kg	<0.000128 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.221 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (TB) BH307 (ES15)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH307 (ES15)
Sample Depth:
5.35 m
Moisture content:
27.9%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 27.9% No Moisture Correction applied (MC)

#	Determinand	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number / EC Number / CAS Number							
1	antimony { antimony trioxide }		0.6 mg/kg	1.20	0.718 mg/kg	0.000072 %		
	051-005-00-X / 215-175-0 / 1309-64-4							
2	arsenic { arsenic trioxide }		13 mg/kg	1.32	17.164 mg/kg	0.00172 %		
	033-003-00-0 / 215-481-4 / 1327-53-3							
3	beryllium { beryllium oxide }		0.924 mg/kg	2.78	2.564 mg/kg	0.000256 %		
	004-003-00-8 / 215-133-1 / 1304-56-9							
4	boron { diboron trioxide; boric oxide }		3.9 mg/kg	3.22	12.558 mg/kg	0.00126 %		
	005-008-00-8 / 215-125-8 / 1303-86-2							
5	cadmium { cadmium oxide }		0.22 mg/kg	1.14	0.251 mg/kg	0.000025 %		
	048-002-00-0 / 231-152-8 [1] 215-146-2 [2] / 7440-43-9 [1] 1306-19-0 [2]							
6	chromium in chromium(III) compounds { chromium(III) oxide }		33.3 mg/kg	1.46	48.67 mg/kg	0.00487 %		
	/ 215-160-9 / 1308-38-9							
7	chromium in chromium(VI) compounds { chromium(VI) oxide }		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
	024-001-00-0 / 215-607-8 / 1333-82-0							
8	copper { dicopper oxide; copper (I) oxide }		15.6 mg/kg	1.13	17.564 mg/kg	0.00176 %		
	029-002-00-X / 215-270-7 / 1317-39-1							
9	lead { lead chromate }	1	19.6 mg/kg	1.56	30.572 mg/kg	0.00196 %		
	082-004-00-2 / 231-846-0 / 7758-97-6							
10	manganese { manganese sulphate }		641 mg/kg	2.75	1761.829 mg/kg	0.176 %		
	025-003-00-4 / 232-089-9 / 7785-87-7							
11	mercury { mercury dichloride }		<0.1 mg/kg	1.35	<0.135 mg/kg	<0.000014 %		<**LOD**
	080-010-00-X / 231-299-8 / 7487-94-7							
12	molybdenum { molybdenum(VI) oxide }		1.1 mg/kg	1.50	1.65 mg/kg	0.000165 %		
	042-001-00-9 / 215-204-7 / 1313-27-5							
13	nickel { nickel chromate }		32.8 mg/kg	2.98	97.621 mg/kg	0.00976 %		
	028-035-00-7 / 238-766-5 / 14721-18-7							

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<LOD
		034-002-00-8											
15		zinc { zinc sulphate }				74.1	mg/kg	2.47	182.975	mg/kg	0.0183 %		
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
16		vanadium { divanadium pentaoxide; vanadium pentoxide }				45.8	mg/kg	1.79	81.761	mg/kg	0.00818 %		
		023-001-00-8	215-239-8	1314-62-1									
17		TPH (C6 to C40) petroleum group				<40.42	mg/kg		<40.42	mg/kg	<0.00404 %		<LOD
				TPH									
18		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
19		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
20		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
21		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
22		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
23		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
		006-007-00-5											
24		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
25		naphthalene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
27		acenaphthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-469-6	83-32-9									
28		fluorene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-695-5	86-73-7									
29		phenanthrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-581-5	85-01-8									
30		anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-371-1	120-12-7									
31		fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-912-4	206-44-0									
32		pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-927-3	129-00-0									
33		benzo[a]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
34		chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
35		benzo[b]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
36		benzo[k]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
37		benzo[a]pyrene; benzo[def]chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
38		indeno[123-cd]pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-893-2	193-39-5									
39		dibenz[a,h]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-041-00-2	200-181-8	53-70-3									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
			205-883-8	191-24-2									
41		coronene				<1.28	mg/kg		<1.28	mg/kg	<0.000128 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.229 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: (TB) BH302 (ES6)[1]

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH302 (ES6)[1]
Sample Depth:
2 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.5 mg/kg	1.20	0.599 mg/kg	0.00006 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10.3 mg/kg	1.32	13.599 mg/kg	0.00136 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.855 mg/kg	2.78	2.373 mg/kg	0.000237 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		2.2 mg/kg	3.22	7.084 mg/kg	0.000708 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.27 mg/kg	1.14	0.308 mg/kg	0.000031 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		31.5 mg/kg	1.46	46.039 mg/kg	0.0046 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		**<LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		17.4 mg/kg	1.13	19.59 mg/kg	0.00196 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	35.5 mg/kg	1.56	55.373 mg/kg	0.00355 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		573.4 mg/kg	2.75	1576.027 mg/kg	0.158 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.1 mg/kg	1.35	0.135 mg/kg	0.000014 %		
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1 mg/kg	1.50	1.5 mg/kg	0.00015 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		28.4 mg/kg	2.98	84.526 mg/kg	0.00845 %		

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
14	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<0.5 mg/kg	2.55	<1.277 mg/kg	<0.000128 %		<LOD
15	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		138.7 mg/kg	2.47	342.491 mg/kg	0.0342 %		
16	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		43.5 mg/kg	1.79	77.656 mg/kg	0.00777 %		
17	TPH (C6 to C40) petroleum group			TPH		<40.6 mg/kg		<40.6 mg/kg	<0.00406 %		<LOD
18	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
19	benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
20	toluene	601-021-00-3	203-625-9	108-88-3		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
21	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
22	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
23	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5 mg/kg	1.88	<0.942 mg/kg	<0.000094 %		<LOD
24	pH			PH		8.1 pH		8.1 pH	8.1 pH		
25	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
26	acenaphthylene		205-917-1	208-96-8		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
27	acenaphthene		201-469-6	83-32-9		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
28	fluorene		201-695-5	86-73-7		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
29	phenanthrene		201-581-5	85-01-8		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
30	anthracene		204-371-1	120-12-7		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
31	fluoranthene		205-912-4	206-44-0		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
32	pyrene		204-927-3	129-00-0		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
33	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
34	chrysene	601-048-00-0	205-923-4	218-01-9		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
35	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
36	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
37	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
38	indeno[123-cd]pyrene		205-893-2	193-39-5		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
39	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
			205-883-8	191-24-2									
41		coronene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.225 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: (TB) BH302 (ES10)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH302 (ES10)
Sample Depth:
3.5 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.4	mg/kg	1.20	0.479	mg/kg	0.000048 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		10.1	mg/kg	1.32	13.335	mg/kg	0.00133 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.799	mg/kg	2.78	2.217	mg/kg	0.000222 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		3.1	mg/kg	3.22	9.982	mg/kg	0.000998 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.25	mg/kg	1.14	0.286	mg/kg	0.000029 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		29.8	mg/kg	1.46	43.554	mg/kg	0.00436 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.92	<0.192	mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15	mg/kg	1.13	16.888	mg/kg	0.00169 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	27.5	mg/kg	1.56	42.895	mg/kg	0.00275 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		675.8	mg/kg	2.75	1857.479	mg/kg	0.186 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.35	<0.135	mg/kg	<0.000014 %		<**LOD**
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.8	mg/kg	1.50	1.2	mg/kg	0.00012 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		28.2	mg/kg	2.98	83.931	mg/kg	0.00839 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.5	mg/kg	2.55	<1.277	mg/kg	<0.000128 %		<LOD
		034-002-00-8											
15		zinc { zinc sulphate }				114.4	mg/kg	2.47	282.488	mg/kg	0.0282 %		
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
16		vanadium { divanadium pentaoxide; vanadium pentoxide }				41.5	mg/kg	1.79	74.085	mg/kg	0.00741 %		
		023-001-00-8	215-239-8	1314-62-1									
17		TPH (C6 to C40) petroleum group				<40.6	mg/kg		<40.6	mg/kg	<0.00406 %		<LOD
				TPH									
18		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
19		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
20		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
21		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
22		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
		006-007-00-5											
23		pH				8	pH		8	pH	8pH		
				PH									
24		naphthalene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
26		acenaphthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-469-6	83-32-9									
27		fluorene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-695-5	86-73-7									
28		phenanthrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-581-5	85-01-8									
29		anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-371-1	120-12-7									
30		fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-912-4	206-44-0									
31		pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-927-3	129-00-0									
32		benzo[a]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
33		chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
34		benzo[b]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
35		benzo[k]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
36		benzo[a]pyrene; benzo[def]chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
37		indeno[123-cd]pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-893-2	193-39-5									
38		dibenz[a,h]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
39		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-883-8	191-24-2									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
40		phenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2							
								Total:	0.246 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: (TB) BH308 (ES2)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH308 (ES2)
Sample Depth:
1.4 m
Moisture content:
17.8%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17.8% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.6 mg/kg	1.20	0.718 mg/kg	0.000072 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11.8 mg/kg	1.32	15.58 mg/kg	0.00156 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.15 mg/kg	2.78	3.192 mg/kg	0.000319 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		4 mg/kg	3.22	12.88 mg/kg	0.00129 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.25 mg/kg	1.14	0.286 mg/kg	0.000029 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		38.5 mg/kg	1.46	56.27 mg/kg	0.00563 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		25.9 mg/kg	1.13	29.161 mg/kg	0.00292 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	53 mg/kg	1.56	82.67 mg/kg	0.0053 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		630.8 mg/kg	2.75	1733.794 mg/kg	0.173 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.35	<0.135 mg/kg	<0.000014 %		<**LOD**
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		1.5 mg/kg	1.50	2.25 mg/kg	0.000225 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		39.6 mg/kg	2.98	117.86 mg/kg	0.0118 %		

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
14	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				0.7	mg/kg	2.55	1.788	mg/kg	0.000179 %		
15	zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		101.4	mg/kg	2.47	250.387	mg/kg	0.025 %		
16	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		54	mg/kg	1.79	96.4	mg/kg	0.00964 %		
17	TPH (C6 to C40) petroleum group			TPH		88.02	mg/kg		88.02	mg/kg	0.0088 %		
18	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
19	benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
20	toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
21	ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
22	xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<**LOD**
23	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<**LOD**
24	pH			PH		8.1	pH		8.1	pH	8.1 pH		
25	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
26	acenaphthylene		205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
27	acenaphthene		201-469-6	83-32-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
28	fluorene		201-695-5	86-73-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
29	phenanthrene		201-581-5	85-01-8		0.33	mg/kg		0.33	mg/kg	0.000033 %		
30	anthracene		204-371-1	120-12-7		0.09	mg/kg		0.09	mg/kg	0.000009 %		
31	fluoranthene		205-912-4	206-44-0		0.48	mg/kg		0.48	mg/kg	0.000048 %		
32	pyrene		204-927-3	129-00-0		0.4	mg/kg		0.4	mg/kg	0.00004 %		
33	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.27	mg/kg		0.27	mg/kg	0.000027 %		
34	chrysene	601-048-00-0	205-923-4	218-01-9		0.29	mg/kg		0.29	mg/kg	0.000029 %		
35	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.33	mg/kg		0.33	mg/kg	0.000033 %		
36	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.12	mg/kg		0.12	mg/kg	0.000012 %		
37	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.21	mg/kg		0.21	mg/kg	0.000021 %		
38	indeno[123-cd]pyrene		205-893-2	193-39-5		0.16	mg/kg		0.16	mg/kg	0.000016 %		
39	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				0.16	mg/kg		0.16	mg/kg	0.000016 %		
			205-883-8	191-24-2									
41		coronene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
43		polychlorobiphenyls; PCB				<0.035	mg/kg		<0.035	mg/kg	<0.0000035 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
										Total:	0.247 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (TB) BH308 (ES11)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH308 (ES11)
Sample Depth:
6 m
Moisture content:
0%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.3	mg/kg	1.20	0.359	mg/kg	0.000036 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		8.2	mg/kg	1.32	10.827	mg/kg	0.00108 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.554	mg/kg	2.78	1.538	mg/kg	0.000154 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		4.5	mg/kg	3.22	14.489	mg/kg	0.00145 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.21	mg/kg	1.14	0.24	mg/kg	0.000024 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		21.3	mg/kg	1.46	31.131	mg/kg	0.00311 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1	mg/kg	1.92	<0.192	mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		10.8	mg/kg	1.13	12.16	mg/kg	0.00122 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	13.7	mg/kg	1.56	21.369	mg/kg	0.00137 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		532.4	mg/kg	2.75	1463.335	mg/kg	0.146 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1	mg/kg	1.35	<0.135	mg/kg	<0.000014 %		<**LOD**
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.6	mg/kg	1.50	0.9	mg/kg	0.00009 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21.6	mg/kg	2.98	64.287	mg/kg	0.00643 %		

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.6	mg/kg	2.55	1.532	mg/kg	0.000153 %		
		034-002-00-8											
15		zinc { zinc sulphate }				52.3	mg/kg	2.47	129.144	mg/kg	0.0129 %		
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
16		vanadium { divanadium pentaoxide; vanadium pentoxide }				31.3	mg/kg	1.79	55.876	mg/kg	0.00559 %		
		023-001-00-8	215-239-8	1314-62-1									
17		TPH (C6 to C40) petroleum group				45.42	mg/kg		45.42	mg/kg	0.00454 %		
				TPH									
18		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
19		benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
20		toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
21		ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
22		xylene				<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
23		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<LOD
		006-007-00-5											
24		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
25		naphthalene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
26		acenaphthylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-917-1	208-96-8									
27		acenaphthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-469-6	83-32-9									
28		fluorene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-695-5	86-73-7									
29		phenanthrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			201-581-5	85-01-8									
30		anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-371-1	120-12-7									
31		fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-912-4	206-44-0									
32		pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			204-927-3	129-00-0									
33		benzo[a]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
34		chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
35		benzo[b]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
36		benzo[k]fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
37		benzo[a]pyrene; benzo[def]chrysene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
38		indeno[123-cd]pyrene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
			205-893-2	193-39-5									
39		dibenz[a,h]anthracene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		601-041-00-2	200-181-8	53-70-3									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
			205-883-8	191-24-2									
41		coronene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.185 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Classification of sample: (TB) BH308 ES(17)

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:
(TB) BH308 ES(17)
Sample Depth:
8.5 m
Moisture content:
30.5%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 30.5% No Moisture Correction applied (MC)

#	Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		0.4 mg/kg	1.20	0.479 mg/kg	0.000048 %		
2	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		11.7 mg/kg	1.32	15.448 mg/kg	0.00154 %		
3	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.712 mg/kg	2.78	1.976 mg/kg	0.000198 %		
4	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		6.5 mg/kg	3.22	20.929 mg/kg	0.00209 %		
5	cadmium { cadmium oxide }	048-002-00-0	231-152-8 [1] 215-146-2 [2]	7440-43-9 [1] 1306-19-0 [2]		0.24 mg/kg	1.14	0.274 mg/kg	0.000027 %		
6	chromium in chromium(III) compounds { chromium(III) oxide }		215-160-9	1308-38-9		24.4 mg/kg	1.46	35.662 mg/kg	0.00357 %		
7	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.1 mg/kg	1.92	<0.192 mg/kg	<0.000019 %		<**LOD**
8	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		12.8 mg/kg	1.13	14.411 mg/kg	0.00144 %		
9	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	15 mg/kg	1.56	23.397 mg/kg	0.0015 %		
10	manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		618.7 mg/kg	2.75	1700.536 mg/kg	0.17 %		
11	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.1 mg/kg	1.35	<0.135 mg/kg	<0.000014 %		<**LOD**
12	molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		0.8 mg/kg	1.50	1.2 mg/kg	0.00012 %		
13	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		26.4 mg/kg	2.98	78.573 mg/kg	0.00786 %		

#		Determinand	CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
14		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				0.7	mg/kg	2.55	1.788	mg/kg	0.000179 %		
15		zinc { zinc sulphate }	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		65.7	mg/kg	2.47	162.233	mg/kg	0.0162 %		
16		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		35.5	mg/kg	1.79	63.374	mg/kg	0.00634 %		
17		TPH (C6 to C40) petroleum group			TPH		36.01	mg/kg		36.01	mg/kg	0.0036 %		
18		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
19		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
20		toluene	601-021-00-3	203-625-9	108-88-3		<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<**LOD**
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
22		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.006	mg/kg		<0.006	mg/kg	<0.0000006 %		<**LOD**
23		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<0.5	mg/kg	1.88	<0.942	mg/kg	<0.000094 %		<**LOD**
24		pH			PH		8.6	pH		8.6	pH	8.6 pH		
25		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
26		acenaphthylene		205-917-1	208-96-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
27		acenaphthene		201-469-6	83-32-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
28		fluorene		201-695-5	86-73-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
29		phenanthrene		201-581-5	85-01-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
30		anthracene		204-371-1	120-12-7		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
31		fluoranthene		205-912-4	206-44-0		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
32		pyrene		204-927-3	129-00-0		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
33		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
34		chrysene	601-048-00-0	205-923-4	218-01-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
35		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
36		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
37		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
38		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
39		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
40		benzo[ghi]perylene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
			205-883-8	191-24-2									
41		coronene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<**LOD**
			205-881-7	191-07-1									
42		phenol				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
		604-001-00-2	203-632-7	108-95-2									
										Total:	0.215 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i) on Flam. Liq. 1; H224, Flam. Liq. 2; H225, Flam. Liq. 3; H226: Force this Hazardous property to non hazardous because Not considered flammable at recorded concentration in a soil matrix.

Appendix A: Classifier defined and non CLP determinands

- **chromium(III) oxide** (EC Number: 215-160-9, CAS Number: 1308-38-9)

Conversion factor: 1.462
Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17/07/2015
Risk Phrases: R20 , R22 , R36 , R37 , R38 , R42 , R43 , R50/53 , R60 , R61
Hazard Statements: Acute Tox. 4 H332 , Acute Tox. 4 H302 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315 , Resp. Sens. 1 H334 , Skin Sens. 1 H317 , Repr. 1B H360FD , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

- **dicopper oxide; copper (I) oxide** (EC Number: 215-270-7, CAS Number: 1317-39-1)

CLP index number: 029-002-00-X
Data source: Regulation (EU) 2016/1179 of 19 July 2016 (ATP9)
Additional Risk Phrases: N R50/53 , N R50/53 >= 0.25 %
Additional Hazard Statement(s): None.
Reason for additional Hazards Statement(s)/Risk Phrase(s):
10/10/2016 - N R50/53 risk phrase sourced from: WM3 v1 still uses ecotoxic risk phrases
10/10/2016 - N R50/53 >= 0.25 % risk phrase sourced from: WM3 v1 still uses ecotoxic risk phrases

- **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013
Data source: WM3 1st Edition 2015
Data source date: 25/05/2015
Risk Phrases: R10 , R45 , R46 , R51/53 , R63 , R65
Hazard Statements: Flam. Liq. 3 H226 , Asp. Tox. 1 H304 , STOT RE 2 H373 , Muta. 1B H340 , Carc. 1B H350 , Repr. 2 H361d , Aquatic Chronic 2 H411

- **ethylbenzene** (EC Number: 202-849-4, CAS Number: 100-41-4)

CLP index number: 601-023-00-4
Data source: Commission Regulation (EU) No 605/2014 – 6th Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP6)
Additional Risk Phrases: None.
Additional Hazard Statement(s): Carc. 2 H351
Reason for additional Hazards Statement(s)/Risk Phrase(s):
03/06/2015 - Carc. 2 H351 hazard statement sourced from: IARC Group 2B (77) 2000

- **salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex**

CLP index number: 006-007-00-5
Data source: Commission Regulation (EC) No 790/2009 - 1st Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP1)
Additional Risk Phrases: None.
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s)/Risk Phrase(s):
14/12/2015 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

- **pH** (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25/05/2015
Risk Phrases: None.
Hazard Statements: None.

- **acenaphthylene** (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17/07/2015
Risk Phrases: R22 , R26 , R27 , R36 , R37 , R38
Hazard Statements: Acute Tox. 4 H302 , Acute Tox. 1 H330 , Acute Tox. 1 H310 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315

acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17/07/2015
Risk Phrases: R36 , R37 , R38 , N R50/53 , N R51/53
Hazard Statements: Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410 , Aquatic Chronic 2 H411

fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06/08/2015
Risk Phrases: N R50/53
Hazard Statements: Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06/08/2015
Risk Phrases: R22 , R36 , R37 , R38 , R40 , R43 , N R50/53
Hazard Statements: Acute Tox. 4 H302 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Carc. 2 H351 , Skin Sens. 1 H317 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410 , Skin Irrit. 2 H315

anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17/07/2015
Risk Phrases: R36 , R37 , R38 , R43 , N R50/53
Hazard Statements: Eye Irrit. 2 H319 , STOT SE 3 H335 , Skin Irrit. 2 H315 , Skin Sens. 1 H317 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

fluoranthene (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21/08/2015
Risk Phrases: Xn R22 , N R50/53
Hazard Statements: Acute Tox. 4 H302 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

pyrene (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21/08/2015
Risk Phrases: Xi R36/37/38 , N R50/53
Hazard Statements: Skin Irrit. 2 H315 , Eye Irrit. 2 H319 , STOT SE 3 H335 , Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

indeno[123-cd]pyrene (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06/08/2015
Risk Phrases: R40
Hazard Statements: Carc. 2 H351

benzo[ghi]perylene (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 23/07/2015
Risk Phrases: N R50/53
Hazard Statements: Aquatic Acute 1 H400 , Aquatic Chronic 1 H410

coronene (EC Number: 205-881-7, CAS Number: 191-07-1)

Description/Comments: Data from C&L Inventory Database; no entries in Registered Substances or Pesticides Properties databases; SDS: Sigma Aldrich, 1907/2006 compliant, dated 2012 - no entries; IARC – Group 3, not carcinogenic.
Data source:
http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=17010&HarmOnly=no?fc=true&lang=en
Data source date: 16/06/2014
Risk Phrases: R68/20
Hazard Statements: STOT SE 2 H371

polychlorobiphenyls; PCB (EC Number: 215-648-1, CAS Number: 1336-36-3)

CLP index number: 602-039-00-4
Data source: Regulation 1272/2008/EC - Classification, labelling and packaging of substances and mixtures. (CLP)
Additional Risk Phrases: None.
Additional Hazard Statement(s): Carc. 1A H350
Reason for additional Hazards Statement(s)/Risk Phrase(s):
29/09/2015 - Carc. 1A H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

Appendix B: Rationale for selection of metal species

antimony {antimony trioxide}

Worst case CLP species based on hazard statements/molecular weight and low solubility. Industrial sources include: flame retardants in electrical apparatus, textiles and coatings (edit as required)

arsenic {arsenic trioxide}

Reasonable case CLP species based on hazard statements/molecular weight and most common (stable) oxide of arsenic. Industrial sources include: smelting; main precursor to other arsenic compounds (edit as required)

beryllium {beryllium oxide}

Reasonable case CLP species based on hazard statements/molecular weight. Industrial sources include: most common (non alloy) form, used in ceramics (edit as required)

boron {diboron trioxide; boric oxide}

Reasonable case CLP species based on hazard statements/ molecular weight, physical form and low solubility. Industrial sources include: fluxing agent for glass/enamels; additive for fibre optics, borosilicate glass (edit as required)

cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. (edit as required) Worst case compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history (edit as required)

chromium in chromium(III) compounds {chromium(III) oxide}

Reasonable case species based on hazard statements/molecular weight. Industrial sources include: tanning, pigment in paint, inks and glass (edit as required)

chromium in chromium(VI) compounds {chromium(VI) oxide}

Worst case CLP species based on hazard statements/molecular weight. Industrial sources include: production stainless steel, electroplating, wood preservation, anti-corrosion agents or coatings, pigments (edit as required)

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Industrial sources include: oxidised copper metal, brake pads, pigments, antifouling paints, fungicide. (edit as required) Worse case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected. (edit as required)

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

manganese {manganese sulphate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

molybdenum {molybdenum(VI) oxide}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case. Pigment cadmium sulphoselenide not likely to be present in this soil. No evidence for the other CLP entries: sodium selenite, nickel II selenite and nickel selenide, to be present in this soil. (edit as required)

zinc {zinc sulphate}

Based on recorded concentrations of hexavalent chromium, zinc not considered likely to exist as zinc chromate.

vanadium {divanadium pentaoxide; vanadium pentoxide}

Worst case species.

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case as complex cyanides and those specified elsewhere in the annex are not likely to be present in this soil: [Note conversion factor based on a worst case compound: sodium cyanide] (edit as required)

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition, May 2015
HazWasteOnline Classification Engine Version: 2016.302.3143.6237 (28 Oct 2016)
HazWasteOnline Database: 2016.302.3143.6237 (28 Oct 2016)

This classification utilises the following guidance and legislation:
WM3 - Waste Classification - May 2015
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Wastes 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
POPs Regulation 2004 - Regulation 850/2004/EC of 29 April 2004
1st ATP to POPs Regulation - Regulation 756/2010/EU of 24 August 2010
2nd ATP to POPs Regulation - Regulation 757/2010/EU of 24 August 2010

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limited company registered in England and
Wales (No 2514788) whose address is at
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Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 349285-1

Date of Report: 19-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - WAC
Date Job Received at SAL: 06-Sep-2013
Date Analysis Started: 10-Sep-2013
Date Analysis Completed: 19-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Mana
(Land)

Waste Acceptance Criteria

Customer Sample Reference : BH17 ES 004 0.5 (345430/001)
SAL Sample Reference : 349285 001
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Date Sampled : 09-AUG-2013
Test Portion Mass (g) : 175
Depth : 0.5
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	5.8			10.0
Moisture	Grav	0.1	%	N	13			
PAH (Sum)	Calc	1.6	mg/kg	N	50	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	8.1		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	4.0	**3.0**	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	91	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.081	**0.06**	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.17	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.11	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	22	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.028	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.039	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	88	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	7.5	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.030	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.017	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	<0.0050	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	<5.0	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	760	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.025	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : WS01 ES 002 1.0-1.2 (348302/025)
SAL Sample Reference : 349285 002
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Test Portion Mass (g) : 175
Depth : 1.2
Date Sampled : 29-AUG-2013
Top Depth : 1.0
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	4.8			10.0
Moisture	Grav	0.1	%	N	7.9			
PAH (Sum)	Calc	1.6	mg/kg	N	42	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	(9) <0.0035	1.0		
pH	Probe			M	8.5		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	2.8	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	83	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.098	**0.06**	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.072	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.30	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	46	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.051	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.083	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	130	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	8.6	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.042	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	0.00072	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.065	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.0087	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	160	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	1000	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.031	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : WS03 ES 001 1.8-2.0 (348302/054)
SAL Sample Reference : 349285 003
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Depth : 2.0
Date Sampled : 30-AUG-2013
Top Depth : 1.8
Test Portion Mass (g) : 175
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	3.6			10.0
Moisture	Grav	0.1	%	N	19			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.7		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	0.8	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.032	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.15	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	1400	**800.0**	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.022	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	110	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	2.7	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	<0.0030	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.12	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.018	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	280	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	3600	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	<0.020	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : TP05A ES 001 1.0-1.2 (348302/008)
SAL Sample Reference : 349285 004
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Date Sampled : 28-AUG-2013
Test Portion Mass (g) : 175
Top Depth : 1.0
Depth : 1.2
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	7.9			10.0
Moisture	Grav	0.1	%	N	9.0			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	8.3		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	12	3.0	5.0	**6.0**
TPH C10-C40 (sum)	Calc	1	mg/kg	N	240	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.016	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.060	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.17	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	22	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.019	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.077	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	79	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	3.5	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.019	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.053	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	<0.0050	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	73	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	970	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	<0.020	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : TP04 ES 001 0.2-0.5 (348302/012)
SAL Sample Reference : 349285 005
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Date Sampled : 28-AUG-2013
Top Depth : 0.2
Depth : 0.5
Test Portion Mass (g) : 175
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	7.6			10.0
Moisture	Grav	0.1	%	N	5.3			
PAH (Sum)	Calc	1.6	mg/kg	N	23	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	0.0024	1.0		
pH	Probe			M	8.2		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	17	3.0	5.0	**6.0**
TPH C10-C40 (sum)	Calc	1	mg/kg	N	93	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.069	**0.06**	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.093	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.21	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	25	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.027	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.049	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	120	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	6.5	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.11	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.041	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.0076	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	21	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	920	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.049	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH16A ES 019 5.0 (347221/032)
SAL Sample Reference : 349285 006
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Date Sampled : 21-AUG-2013
Depth : 5.0
Test Portion Mass (g) : 175
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	5.8			10.0
Moisture	Grav	0.1	%	N	28			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.6		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	1.0	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.013	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.41	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00041	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	270	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.032	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.011	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	96	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	1.4	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.0054	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.18	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.018	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.0083	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	1400	**1000.0**	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	4100	**4000.0**	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.038	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH25 ES 009 3.0 (348078/004)
SAL Sample Reference : 349285 007
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Test Portion Mass (g) : 175
Depth : 3.0
Date Sampled : 27-AUG-2013
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	3.5			10.0
Moisture	Grav	0.1	%	N	23			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.7		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	0.9	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.013	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	5.5	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	15	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.042	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.018	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	140	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	1.5	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.0060	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.13	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.017	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	<0.0050	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	520	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	2300	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.044	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH10 ES 016 6.5 (346570/006)
SAL Sample Reference : 349285 008
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Test Portion Mass (g) : 175
Date Sampled : 16-AUG-2013
Depth : 6.5
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	5.1			10.0
Moisture	Grav	0.1	%	N	31			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	8.4		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	0.8	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.012	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.047	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.25	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00056	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	220	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.038	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.018	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	160	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	1.5	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.0057	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.28	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.012	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.0067	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	490	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	2800	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.036	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Note:- Sample failed to produce sufficient eluate within the specified time after vacuum filtration for 1 hour and centrifugation for 30 minutes. Therefore, the exact application of the two-step leaching test is precluded on technical grounds. (ref: Section 5.2.4 BS EN 12457-3:2002) Results are derived from a single step leaching at L/S 10/1 as prescribed by the EA guidance. (Ref Section C4.1.1 Guidance on Sampling and Testing of Wastes to meet Landfill Waste Acceptance Procedures Version 1 April 2005, Environment Agency)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : WS26 ES 005 1.7-2.0 (349049/026)
SAL Sample Reference : 349285 009
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Depth : 2.0
Test Portion Mass (g) : 175
Date Sampled : 03-SEP-2013
Top Depth : 1.7
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	3.1			10.0
Moisture	Grav	0.1	%	N	<0.1			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	8.2		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	0.8	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	9	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.014	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	6.2	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00037	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	26	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.028	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.025	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	120	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	3.6	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.011	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.19	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.015	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	<0.0050	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	200	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	1500	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.035	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH09 ES 015 3.3 (345249/006)
SAL Sample Reference : 349285 010
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Test Portion Mass (g) : 175
Depth : 3.3
Date Sampled : 06-AUG-2013
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	2.9			10.0
Moisture	Grav	0.1	%	N	27			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.7		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	0.8	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	7	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.0062	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.56	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	63	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.041	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.011	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	85	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	1.8	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.0047	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.055	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.013	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	<0.0050	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	690	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	2800	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.035	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH01 ES 002 1.5 (344267/059)
SAL Sample Reference : 349285 011
Project Site : A63 Castle St - WAC
Customer Reference : 112630
Depth : 1.5
Date Sampled : 06-AUG-2013
Test Portion Mass (g) : 175
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	6.2			10.0
Moisture	Grav	0.1	%	N	25			
PAH (Sum)	Calc	1.6	mg/kg	N	12	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	(9,100) <0.0010	1.0		
pH	Probe			M	8.8		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	1.0	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	52	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.024	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.13	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00037	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	470	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.069	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.018	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	84	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	<0.50	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.0053	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.18	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.021	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	520	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	2200	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.044	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

SAL Reference: 349285
Project Site: A63 Castle St - WAC
Customer Reference: 112630

Soil Analysed as Soil
MCERTS Preparation

SAL Reference	349285 001	349285 002	349285 003	349285 004	349285 005	349285 006	349285 007	349285 008	349285 009	349285 010	349285 011
Customer Sample Reference	BH17 ES 004 0.5 (345430 /001)	WS01 ES 002 1.0-1.2 (348302 /025)	WS03 ES 001 1.8-2.0 (348302 /054)	TP05A ES 001 1.0-1.2 (348302 /008)	TP04 ES 001 0.2-0.5 (348302 /012)	BH16A ES 019 5.0 (347221 /032)	BH25 ES 009 3.0 (348078 /004)	BH10 ES 016 6.5 (346570 /006)	WS26 ES 005 1.7-2.0 (349049 /026)	BH09 ES 015 3.3 (345249 /006)	BH01 ES 002 1.5 (344267 /059)
Test Sample	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
Date Sampled	09-AUG -2013	29-AUG -2013	30-AUG -2013	28-AUG -2013	28-AUG -2013	21-AUG -2013	27-AUG -2013	16-AUG -2013	03-SEP -2013	06-AUG -2013	06-AUG -2013
Depth	0.5	1.2	2.0	1.2	0.5	5.0	3.0	6.5	2.0	3.3	1.5
Top Depth		1.0	1.8	1.0	0.2				1.7		
Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Clay	Clay	Clay	Clay	Clay

Determinand	Method	LOD	Units	Symbol											
Moisture	Grav (1 Dec) (40 C)	0.1	%	N	-	-	-	-	-	-	-	-	-	-	-
Moisture @ 105 C	Grav (1 Dec) (105 C)	0.1	%	N	13	7.9	19	9.0	5.3	28	23	31	<0.1	27	25

SAL Reference: 349285
Project Site: A63 Castle St - WAC
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

SAL Reference	349285 004	349285 005	349285 011
Customer Sample Reference	TP05A ES 001 1.0-1.2 (348302/ 008)	TP04 ES 001 0.2-0.5 (348302/ 012)	BH01 ES 002 1.5 (344267/ 059)
Test Sample	AR	AR	AR
Date Sampled	28-AUG-2013	28-AUG-2013	06-AUG-2013
Depth	1.2	0.5	1.5
Top Depth	1.0	0.2	
Type	Sandy Soil	Sandy Soil	Clay

Determinand	Method	LOD	Units	Symbol			
Asbestos ID	PLM			SU	N.D.	N.D.	N.D.

SAL Reference: 349285
Project Site: A63 Castle St - WAC
Customer Reference: 112630

Soil Analysed as Soil
Total and Speciated USEPA16 PAH

SAL Reference					**34928 5 001**	**34928 5 002**	**34928 5 003**	**34928 5 004**	**34928 5 005**	**34928 5 006**	**34928 5 007**	**34928 5 008**	**34928 5 009**	**34928 5 010**	**34928 5 011**
Customer Sample Reference					**BH17 ES 004 0.5 (345430/001)**	**WS01 ES 002 1.0-1.2 (348302/025)**	**WS03 ES 001 1.8-2.0 (348302/054)**	**TP05A ES 001 1.0-1.2 (348302/008)**	**TP04 ES 001 0.2-0.5 (348302/012)**	**BH16A ES 019 5.0 (347221/032)**	**BH25 ES 009 3.0 (348078/004)**	**BH10 ES 016 6.5 (346570/006)**	**WS26 ES 005 1.7-2.0 (349049/026)**	**BH09 ES 015 3.3 (345249/006)**	**BH01 ES 002 1.5 (344267/059)**
Test Sample					**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**
Date Sampled					**09-AUG-2013**	**29-AUG-2013**	**30-AUG-2013**	**28-AUG-2013**	**28-AUG-2013**	**21-AUG-2013**	**27-AUG-2013**	**16-AUG-2013**	**03-SEP-2013**	**06-AUG-2013**	**06-AUG-2013**
Depth					**0.5**	**1.2**	**2.0**	**1.2**	**0.5**	**5.0**	**3.0**	**6.5**	**2.0**	**3.3**	**1.5**
Top Depth						**1.0**	**1.8**	**1.0**	**0.2**				**1.7**		
Type					**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**LOD**	**Units**	**Symbol**											
Naphthalene	GC/MS(MCERTS)	0.1	mg/kg	M	**1.0**	**0.9**	<0.1	<0.1	**1.4**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	GC/MS(MCERTS)	0.1	mg/kg	U	**0.5**	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	GC/MS(MCERTS)	0.1	mg/kg	M	**0.6**	**0.5**	<0.1	<0.1	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	GC/MS(MCERTS)	0.1	mg/kg	M	**1.0**	**0.5**	<0.1	<0.1	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	GC/MS(MCERTS)	0.1	mg/kg	M	**6.7**	**4.3**	<0.1	<0.1	**2.2**	<0.1	<0.1	<0.1	<0.1	<0.1	**0.9**
Anthracene	GC/MS(MCERTS)	0.1	mg/kg	U	**2.3**	**1.2**	<0.1	<0.1	**0.5**	<0.1	<0.1	<0.1	<0.1	<0.1	**0.3**
Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	**6.8**	**6.3**	<0.1	<0.1	**3.8**	<0.1	<0.1	<0.1	<0.1	<0.1	**2.4**
Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	**5.9**	**5.7**	<0.1	<0.1	**3.4**	<0.1	<0.1	<0.1	<0.1	<0.1	**2.1**
Benzo(a)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	**4.8**	**4.3**	<0.1	<0.1	**2.0**	<0.1	<0.1	<0.1	<0.1	<0.1	**1.0**
Chrysene	GC/MS(MCERTS)	0.1	mg/kg	M	**4.9**	**4.3**	<0.1	<0.1	**2.4**	<0.1	<0.1	<0.1	<0.1	<0.1	**1.0**
Benzo(b/k)Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	**7.7**	**6.9**	<0.1	<0.1	**3.7**	<0.1	<0.1	<0.1	<0.1	<0.1	**2.1**
Benzo(a)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	**3.9**	**3.4**	<0.1	<0.1	**1.7**	<0.1	<0.1	<0.1	<0.1	<0.1	**1.1**
Indeno(123-cd)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	**2.0**	**1.6**	<0.1	<0.1	**0.9**	<0.1	<0.1	<0.1	<0.1	<0.1	**0.5**
Dibenzo(ah)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	**0.5**	**0.4**	<0.1	<0.1	**0.2**	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	GC/MS(MCERTS)	0.1	mg/kg	M	**1.7**	**1.4**	<0.1	<0.1	**0.7**	<0.1	<0.1	<0.1	<0.1	<0.1	**0.5**
Polyaromatic Hydrocarbons (Total)	GC/MS(MCERTS)	0.1	mg/kg	U	**50**	**42**	<0.1	<0.1	**23**	<0.1	<0.1	<0.1	<0.1	<0.1	**12**
Phenol	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Coronene	GC/MS	0.1	mg/kg	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SAL Reference: 349285
Project Site: A63 Castle St - WAC
Customer Reference: 112630

Soil Analysed as Soil
TPH

SAL Reference					**34928 5 001**	**34928 5 002**	**34928 5 003**	**34928 5 004**	**34928 5 005**	**34928 5 006**	**34928 5 007**	**34928 5 008**	**34928 5 009**	**34928 5 010**	**34928 5 011**
Customer Sample Reference					**BH17 ES 004 0.5 (345430/001)**	**WS01 ES 002 1.0-1.2 (348302/025)**	**WS03 ES 001 1.8-2.0 (348302/054)**	**TP05A ES 001 1.0-1.2 (348302/008)**	**TP04 ES 001 0.2-0.5 (348302/012)**	**BH16A ES 019 5.0 (347221/032)**	**BH25 ES 009 3.0 (348078/004)**	**BH10 ES 016 6.5 (346570/006)**	**WS26 ES 005 1.7-2.0 (349049/026)**	**BH09 ES 015 3.3 (345249/006)**	**BH01 ES 002 1.5 (344267/059)**
Test Sample					**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**	**M105**
Date Sampled					**09-AUG-2013**	**29-AUG-2013**	**30-AUG-2013**	**28-AUG-2013**	**28-AUG-2013**	**21-AUG-2013**	**27-AUG-2013**	**16-AUG-2013**	**03-SEP-2013**	**06-AUG-2013**	**06-AUG-2013**
Depth					**0.5**	**1.2**	**2.0**	**1.2**	**0.5**	**5.0**	**3.0**	**6.5**	**2.0**	**3.3**	**1.5**
Top Depth						**1.0**	**1.8**	**1.0**	**0.2**				**1.7**		
Type					**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**LOD**	**Units**	**Symbol**											
Total Petroleum Hydrocarbons	GC/FID	1	mg/kg	M	**78**	**69**	<1	**210**	**79**	<1	<1	<1	**9**	**7**	**41**
Total Petroleum Hydrocarbons (C35-C40)	GC/FID	1	mg/kg	N	**13**	**14**	<1	**26**	**14**	<1	<1	<1	<1	<1	**11**

SAL Reference: 349285
Project Site: A63 Castle St - WAC
Customer Reference: 112630

Soil Analysed as Soil
BTEX

SAL Reference	34928 5 001	34928 5 002	34928 5 003	34928 5 004	34928 5 005	34928 5 006	34928 5 007	34928 5 008	34928 5 009	34928 5 010	34928 5 011
Customer Sample Reference	BH17 ES 004 0.5 (345430/001)	WS01 ES 002 1.0-1.2 (348302/025)	WS03 ES 001 1.8-2.0 (348302/054)	TP05A ES 001 1.0-1.2 (348302/008)	TP04 ES 001 0.2-0.5 (348302/012)	BH16 A ES 019 5.0 (347221/032)	BH25 ES 009 3.0 (348078/004)	BH10 ES 016 6.5 (346570/006)	WS26 ES 005 1.7-2.0 (349049/026)	BH09 ES 015 3.3 (345249/006)	BH01 ES 002 1.5 (344267/059)
Test Sample	M105	M105	M105	M105	M105	M105	M105	M105	M105	M105	M105
Date Sampled	09-AUG-2013	29-AUG-2013	30-AUG-2013	28-AUG-2013	28-AUG-2013	21-AUG-2013	27-AUG-2013	16-AUG-2013	03-SEP-2013	06-AUG-2013	06-AUG-2013
Depth	0.5	1.2	2.0	1.2	0.5	5.0	3.0	6.5	2.0	3.3	1.5
Top Depth		1.0	1.8	1.0	0.2				1.7		
Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay	Clay	Clay	Clay	Clay	Clay

Determinand	Method	LOD	Units	Symbol											
Benzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Toluene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
EthylBenzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Ortho-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Meta/Para-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010

SAL Reference: 349285
Project Site: A63 Castle St - WAC
Customer Reference: 112630

Soil Analysed as Soil
PCB EC7

SAL Reference	349285 001	349285 002	349285 003	349285 004	349285 005	349285 006
Customer Sample Reference	BH17 ES 004 0.5 (345430/001)	WS01 ES 002 1.0-1.2 (348302/025)	WS03 ES 001 1.8-2.0 (348302/054)	TP05A ES 001 1.0-1.2 (348302/008)	TP04 ES 001 0.2-0.5 (348302/012)	BH16A ES 019 5.0 (347221/032)
Test Sample	M105	M105	M105	M105	M105	M105
Date Sampled	09-AUG-2013	29-AUG-2013	30-AUG-2013	28-AUG-2013	28-AUG-2013	21-AUG-2013
Depth	0.5	1.2	2.0	1.2	0.5	5.0
Top Depth		1.0	1.8	1.0	0.2	
Type	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Sandy Soil	Clay

Determinand	Method	LOD	Units	Symbol						
Polychlorinated biphenyl BZ#101	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(9) <0.00050	<0.00005	<0.00005	**0.00033**	<0.00005
Polychlorinated biphenyl BZ#118	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(9) <0.00050	<0.00005	<0.00005	**0.00025**	<0.00005
Polychlorinated biphenyl BZ#138	GC/MS (HR)	0.00005	mg/kg	M	**0.00006**	(9) <0.00050	<0.00005	<0.00005	**0.00065**	<0.00005
Polychlorinated biphenyl BZ#153	GC/MS (HR)	0.00005	mg/kg	M	**0.00007**	(9) <0.00050	<0.00005	<0.00005	**0.00057**	<0.00005
Polychlorinated biphenyl BZ#180	GC/MS (HR)	0.00005	mg/kg	M	**0.00007**	(9) <0.00050	<0.00005	<0.00005	**0.00044**	<0.00005
Polychlorinated biphenyl BZ#28	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(9) <0.00050	<0.00005	<0.00005	<0.00005	<0.00005
Polychlorinated biphenyl BZ#52	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(9) <0.00050	<0.00005	<0.00005	**0.00015**	<0.00005

SAL Reference: 349285
Project Site: A63 Castle St - WAC
Customer Reference: 112630

Soil Analysed as Soil
PCB EC7

				SAL Reference	**349285 007**	**349285 008**	**349285 009**	**349285 010**	**349285 011**
				Customer Sample Reference	**BH25 ES 009 3.0 (348078/004)**	**BH10 ES 016 6.5 (346570/006)**	**WS26 ES 005 1.7-2.0 (349049/026)**	**BH09 ES 015 3.3 (345249/006)**	**BH01 ES 002 1.5 (344267/059)**
				Test Sample	**M105**	**M105**	**M105**	**M105**	**M105**
				Date Sampled	**27-AUG-2013**	**16-AUG-2013**	**03-SEP-2013**	**06-AUG-2013**	**06-AUG-2013**
				Depth	**3.0**	**6.5**	**2.0**	**3.3**	**1.5**
				Top Depth			**1.7**		
				Type	**Clay**	**Clay**	**Clay**	**Clay**	**Clay**
Determinand	**Method**	**LOD**	**Units**	**Symbol**					
Polychlorinated biphenyl BZ#101	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005	<0.00005	<0.00005	(100,9) <0.0010
Polychlorinated biphenyl BZ#118	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005	<0.00005	<0.00005	(9,100) <0.0010
Polychlorinated biphenyl BZ#138	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005	<0.00005	<0.00005	(9,100) <0.0010
Polychlorinated biphenyl BZ#153	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005	<0.00005	<0.00005	(100,9) <0.0010
Polychlorinated biphenyl BZ#180	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005	<0.00005	<0.00005	(100,9) <0.0010
Polychlorinated biphenyl BZ#28	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005	<0.00005	<0.00005	(100,9) <0.0010
Polychlorinated biphenyl BZ#52	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005	<0.00005	<0.00005	(9,100) <0.0010

Index to symbols used in 349285-1

Value	Description
2:1	Leachate to BS EN 12457-3 (2:1)
AR	As Received
8:1	Leachate to BS EN 12457-3 (8:1)
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
N.D.	Not Detected
9	LOD raised due to dilution of sample
100	LOD determined by sample aliquot used for analysis
S	Analysis was subcontracted
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Samples 009-011: These samples have been analysed exceeding recommended holding times. It is possible therefore that the results provided may be compromised.

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limited company registered in England and
Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
Hadfield Street
Cornbrook
Manchester
M16 9FE
Tel : 0161 874 2400
Fax : 0161 874 2468

Report Number: 349049-1

Date of Report: 20-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 43
Date Job Received at SAL: 04-Sep-2013
Date Analysis Started: 09-Sep-2013
Date Analysis Completed: 19-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Man .
(Land)

[redacted]

Waste Acceptance Criteria

Customer Sample Reference : BH23 ES 020 6.0
SAL Sample Reference : 349049 058
Project Site : A63 Castle St - 43
Customer Reference : 112630
Test Portion Mass (g) : 175
Date Sampled : 03-SEP-2013
Depth : 6.0
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	3.8			10.0
Moisture	Grav	0.1	%	N	29			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	8.5		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	1.1	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	5	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.015	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.066	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.16	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00081	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	520	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.13	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.098	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	700	**500.0**	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	3.8	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.024	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.54	**0.5**	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.038	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.017	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	530	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	4300	**4000.0**	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.038	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Note:- Sample failed to produce sufficient eluate within the specified time after vacuum filtration for 1 hour and centrifugation for 30 minutes. Therefore, the exact application of the two-step leaching test is precluded on technical grounds. (ref: Section 5.2.4 BS EN 12457-3:2002) Results are derived from a single step leaching at L/S 10/1 as prescribed by the EA guidance. (Ref Section C4.1.1 Guidance on Sampling and Testing of Wastes to meet Landfill Waste Acceptance Procedures Version 1 April 2005, Environment Agency)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH14 ES 026 7.0
SAL Sample Reference : 349049 075
Project Site : A63 Castle St - 43
Customer Reference : 112630
Date Sampled : 03-SEP-2013
Depth : 7.0
Test Portion Mass (g) : 175
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	3.3			10.0
Moisture	Grav	0.1	%	N	25			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	(100) <0.0035	1.0		
pH	Probe			M	8.4		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	1.0	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	(9) <10	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.034	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.19	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00040	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	510	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.096	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.017	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	290	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	2.5	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	<0.0030	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.35	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.019	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.013	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	800	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	4300	**4000.0**	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	<0.020	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Note:- Sample failed to produce sufficient eluate within the specified time after vacuum filtration for 1 hour and centrifugation for 30 minutes. Therefore, the exact application of the two-step leaching test is precluded on technical grounds. (ref: Section 5.2.4 BS EN 12457-3:2002) Results are derived from a single step leaching at L/S 10/1 as prescribed by the EA guidance. (Ref Section C4.1.1 Guidance on Sampling and Testing of Wastes to meet Landfill Waste Acceptance Procedures Version 1 April 2005, Environment Agency)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

SAL Reference: 349049
Project Site: A63 Castle St - 43
Customer Reference: 112630

Soil Analysed as Soil
MCERTS Preparation

SAL Reference	**349049 058**	**349049 075**
Customer Sample Reference	**BH23 ES 020 6.0**	**BH14 ES 026 7.0**
Test Sample	**AR**	**AR**
Date Sampled	**03-SEP-2013**	**03-SEP-2013**
Depth	**6.0**	**7.0**
Type	**Clay**	**Clay**

Determinand	Method	LOD	Units	Symbol		
Moisture	Grav (1 Dec) (40 C)	0.1	%	N	**28**	**27**
Moisture @ 105 C	Grav (1 Dec) (105 C)	0.1	%	N	**29**	**25**

SAL Reference: 349049
Project Site: A63 Castle St - 43
Customer Reference: 112630

Soil Analysed as Soil
WAC

SAL Reference	**349049 058**	**349049 075**
Customer Sample Reference	**BH23 ES 020 6.0**	**BH14 ES 026 7.0**
Test Sample	**M105**	**M105**
Date Sampled	**03-SEP-2013**	**03-SEP-2013**
Depth	**6.0**	**7.0**
Type	**Clay**	**Clay**

Determinand	Method	LOD	Units	Symbol		
Naphthalene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Acenaphthylene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1
Acenaphthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Fluorene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Phenanthrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Anthracene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1
Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(a)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Chrysene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(b/k)Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(a)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Indeno(123-cd)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Dibenzo(ah)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(ghi)Perylene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Polyaromatic Hydrocarbons (Total)	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1
Phenol	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Coronene	GC/MS	0.1	mg/kg	N	<0.1	<0.1
Total Petroleum Hydrocarbons	GC/FID	1	mg/kg	M	**5**	(9) <10
Total Petroleum Hydrocarbons (C35-C40)	GC/FID	1	mg/kg	N	<1	(9) <10
Benzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
Toluene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
EthylBenzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
Ortho-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
Meta/Para-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
Polychlorinated biphenyl BZ#101	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(100) <0.00050
Polychlorinated biphenyl BZ#118	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(100) <0.00050
Polychlorinated biphenyl BZ#138	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(100) <0.00050
Polychlorinated biphenyl BZ#153	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(100) <0.00050
Polychlorinated biphenyl BZ#180	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(100) <0.00050
Polychlorinated biphenyl BZ#28	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(100) <0.00050
Polychlorinated biphenyl BZ#52	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	(100) <0.00050

Index to symbols used in 349049-1

Value	Description
10:1	Leachate to BS EN 12457-2 (10:1)
8:1	Leachate to BS EN 12457-3 (8:1)
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
AR	As Received
2:1	Leachate to BS EN 12457-3 (2:1)
100	LOD determined by sample aliquot used for analysis
9	LOD raised due to dilution of sample
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

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limited company registered in England and
Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
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Report Number: 349263-1

Date of Report: 19-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 44
Date Job Received at SAL: 06-Sep-2013
Date Analysis Started: 10-Sep-2013
Date Analysis Completed: 19-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Mana[redacted]
(Land)

Waste Acceptance Criteria

Customer Sample Reference : WS11 ES 010 4.2
SAL Sample Reference : 349263 007
Project Site : A63 Castle St - 44
Customer Reference : 112630
Test Portion Mass (g) : 175
Date Sampled : 04-SEP-2013
Top Depth : 4.2
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	2.4			10.0
Moisture	Grav	0.1	%	N	30			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.9		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	0.8	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.015	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.013	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.33	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	58	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.038	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.0087	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	140	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	1.6	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	<0.0030	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.12	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.0072	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	740	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	2300	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	<0.020	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Note:- Sample failed to produce sufficient eluate within the specified time after vacuum filtration for 1 hour and centrifugation for 30 minutes. Therefore, the exact application of the two-step leaching test is precluded on technical grounds. (ref: Section 5.2.4 BS EN 12457-3:2002) Results are derived from a single step leaching at L/S 10/1 as prescribed by the EA guidance. (Ref Section C4.1.1 Guidance on Sampling and Testing of Wastes to meet Landfill Waste Acceptance Procedures Version 1 April 2005, Environment Agency)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : WS22 ES 002 1.0
SAL Sample Reference : 349263 009
Project Site : A63 Castle St - 44
Customer Reference : 112630
Date Sampled : 04-SEP-2013
Test Portion Mass (g) : 175
Top Depth : 1.0
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	5.6			10.0
Moisture	Grav	0.1	%	N	21			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.8		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	2.4	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.18	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.15	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	25	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.050	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.055	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	140	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	1.6	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.034	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.019	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.023	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	<0.0050	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	9.7	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	910	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.074	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Note:- Sample failed to produce sufficient eluate within the specified time after vacuum filtration for 1 hour and centrifugation for 30 minutes. Therefore, the exact application of the two-step leaching test is precluded on technical grounds. (ref: Section 5.2.4 BS EN 12457-3:2002) Results are derived from a single step leaching at L/S 10/1 as prescribed by the EA guidance. (Ref Section C4.1.1 Guidance on Sampling and Testing of Wastes to meet Landfill Waste Acceptance Procedures Version 1 April 2005, Environment Agency)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

SAL Reference: 349263
Project Site: A63 Castle St - 44
Customer Reference: 112630

Soil Analysed as Soil
MCERTS Preparation

SAL Reference	**349263 007**	**349263 009**
Customer Sample Reference	**WS11 ES 010 4.2**	**WS22 ES 002 1.0**
Test Sample	**AR**	**AR**
Date Sampled	**04-SEP-2013**	**04-SEP-2013**
Top Depth	**4.2**	**1.0**
Type	**Clay**	**Sandy Soil**

Determinand	Method	LOD	Units	Symbol		
Moisture	Grav (1 Dec) (40 C)	0.1	%	N	**29**	**20**
Moisture @ 105 C	Grav (1 Dec) (105 C)	0.1	%	N	**30**	**21**

SAL Reference: 349263
Project Site: A63 Castle St - 44
Customer Reference: 112630

Soil Analysed as Soil
Total and Speciated USEPA16 PAH

SAL Reference	**349263 007**	**349263 009**
Customer Sample Reference	**WS11 ES 010 4.2**	**WS22 ES 002 1.0**
Test Sample	**M105**	**M105**
Date Sampled	**04-SEP-2013**	**04-SEP-2013**
Top Depth	**4.2**	**1.0**
Type	**Clay**	**Sandy Soil**

Determinand	Method	LOD	Units	Symbol		
Naphthalene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Acenaphthylene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1
Acenaphthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Fluorene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Phenanthrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Anthracene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1
Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(a)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Chrysene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(b/k)Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(a)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Indeno(123-cd)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Dibenzo(ah)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Benzo(ghi)Perylene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Polyaromatic Hydrocarbons (Total)	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1	<0.1
Phenol	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1
Coronene	GC/MS	0.1	mg/kg	N	<0.1	<0.1

SAL Reference: 349263
Project Site: A63 Castle St - 44
Customer Reference: 112630

Soil Analysed as Soil
TPH

SAL Reference	**349263 007**	**349263 009**
Customer Sample Reference	**WS11 ES 010 4.2**	**WS22 ES 002 1.0**
Test Sample	**M105**	**M105**
Date Sampled	**04-SEP-2013**	**04-SEP-2013**
Top Depth	**4.2**	**1.0**
Type	**Clay**	**Sandy Soil**

Determinand	Method	LOD	Units	Symbol		
Total Petroleum Hydrocarbons	GC/FID	1	mg/kg	M	<1	<1
Total Petroleum Hydrocarbons (C35-C40)	GC/FID	1	mg/kg	N	<1	<1

SAL Reference: 349263
Project Site: A63 Castle St - 44
Customer Reference: 112630

Soil Analysed as Soil
BTEX

SAL Reference	**349263 007**	**349263 009**
Customer Sample Reference	**WS11 ES 010 4.2**	**WS22 ES 002 1.0**
Test Sample	**M105**	**M105**
Date Sampled	**04-SEP-2013**	**04-SEP-2013**
Top Depth	**4.2**	**1.0**
Type	**Clay**	**Sandy Soil**

Determinand	Method	LOD	Units	Symbol		
Benzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
Toluene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
EthylBenzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010
Meta/Para-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	**0.020**
Ortho-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010

SAL Reference: 349263
Project Site: A63 Castle St - 44
Customer Reference: 112630

Soil Analysed as Soil
PCB EC7

SAL Reference	**349263 007**	**349263 009**
Customer Sample Reference	**WS11 ES 010 4.2**	**WS22 ES 002 1.0**
Test Sample	**M105**	**M105**
Date Sampled	**04-SEP-2013**	**04-SEP-2013**
Top Depth	**4.2**	**1.0**
Type	**Clay**	**Sandy Soil**

Determinand	Method	LOD	Units	Symbol		
Polychlorinated biphenyl BZ#101	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005
Polychlorinated biphenyl BZ#118	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005
Polychlorinated biphenyl BZ#138	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005
Polychlorinated biphenyl BZ#153	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005
Polychlorinated biphenyl BZ#180	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005
Polychlorinated biphenyl BZ#28	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005
Polychlorinated biphenyl BZ#52	GC/MS (HR)	0.00005	mg/kg	M	<0.00005	<0.00005

Index to symbols used in 349263-1

Value	Description
2:1	Leachate to BS EN 12457-3 (2:1)
AR	As Received
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
M40	Analysis conducted on sample assisted dried at no more than 40C. Results are reported on a dry weight basis.
8:1	Leachate to BS EN 12457-3 (8:1)
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

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limited company registered in England and
Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 350010-1

Date of Report: 26-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 45, 46, 47, 48
Date Job Received at SAL: 09-Sep-2013
Date Analysis Started: 17-Sep-2013
Date Analysis Completed: 26-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Mana
(Land)

Waste Acceptance Criteria

Customer Sample Reference : WS20 ES 001 0.25
SAL Sample Reference : 350010 006
Project Site : A63 Castle St - 45, 46, 47, 48
Customer Reference : 112630
Depth : 0.25
Date Sampled : 06-SEP-2013
Test Portion Mass (g) : 175
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	8.0			10.0
Moisture	Grav	0.1	%	N	7.5			
PAH (Sum)	Calc	1.6	mg/kg	N	130	**100.0**		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	(9) <0.0035	1.0		
pH	Probe			M	7.9		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	15	3.0	5.0	**6.0**
TPH C10-C40 (sum)	Calc	1	mg/kg	N	270	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.073	**0.06**	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.092	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	4.1	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00044	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	34	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.041	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.33	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	110	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	6.9	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.088	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	0.0037	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.17	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.049	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.16	**0.1**	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	120	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	610	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.083	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH41 ES 012 3.0
SAL Sample Reference : 350010 013
Project Site : A63 Castle St - 45, 46, 47, 48
Customer Reference : 112630
Date Sampled : 09-SEP-2013
Test Portion Mass (g) : 175
Depth : 3.0
Type : Sandy Soil

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	3.0			10.0
Moisture	Grav	0.1	%	N	29			
PAH (Sum)	Calc	1.6	mg/kg	N	9.3	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	8.0		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	1.0	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	260	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.046	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.028	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	3.2	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	<0.00020	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	1000	**800.0**	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.034	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.030	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	(IS) 61	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	6.8	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.025	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	0.0010	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.037	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.015	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.022	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	790	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	3400	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.031	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Note:- Sample failed to produce sufficient eluate within the specified time after vacuum filtration for 1 hour and centrifugation for 30 minutes. Therefore, the exact application of the two-step leaching test is precluded on technical grounds. (ref: Section 5.2.4 BS EN 12457-3:2002) Results are derived from a single step leaching at L/S 10/1 as prescribed by the EA guidance. (Ref Section C4.1.1 Guidance on Sampling and Testing of Wastes to meet Landfill Waste Acceptance Procedures Version 1 April 2005, Environment Agency)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : BH44 ES 006 2.5
SAL Sample Reference : 350010 028
Project Site : A63 Castle St - 45, 46, 47, 48
Customer Reference : 112630
Test Portion Mass (g) : 175
Depth : 2.5
Date Sampled : 09-SEP-2013
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	7.3			10.0
Moisture	Grav	0.1	%	N	29			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.7		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	2.6	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.071	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	15	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00087	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	1800	**800.0**	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.095	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.026	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	160	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	4.7	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.85	**0.5**	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.16	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.028	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.025	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	890	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	5800	**4000.0**	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.15	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

Waste Acceptance Criteria

Customer Sample Reference : TP11 ES 004 1.6
SAL Sample Reference : 350010 055
Project Site : A63 Castle St - 45, 46, 47, 48
Customer Reference : 112630
Date Sampled : 10-SEP-2013
Depth : 1.6
Test Portion Mass (g) : 175
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	4.5			10.0
Moisture	Grav	0.1	%	N	22			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	<0.00035	1.0		
pH	Probe			M	7.7		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	1.2	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	2400	**500.0**		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.025	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	8.1	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00022	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	21	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.051	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.010	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	120	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	5.6	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	0.0057	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.13	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.016	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.011	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	300	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	1900	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.041	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

SAL Reference: 350010
Project Site: A63 Castle St - 45, 46, 47, 48
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**350010 006**	**350010 013**	**350010 028**	**350010 055**
				Customer Sample Reference	**WS20 ES 001 0.25**	**BH41 ES 012 3.0**	**BH44 ES 006 2.5**	**TP11 ES 004 1.6**
				Test Sample	**AR**	**AR**	**AR**	**AR**
				Date Sampled	**06-SEP-2013**	**09-SEP-2013**	**09-SEP-2013**	**10-SEP-2013**
				Depth	**0.25**	**3.0**	**2.5**	**1.6**
				Type	**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**
Determinand	**Method**	**LOD**	**Units**	**Symbol**				
Moisture @ 105 C	Grav (1 Dec) (105 C)	0.1	%	N	**7.5**	**29**	**29**	**22**
Moisture	Grav (1 Dec) (40 C)	0.1	%	N	**7.0**	**25**	**33**	**22**

SAL Reference: 350010
Project Site: A63 Castle St - 45, 46, 47, 48
Customer Reference: 112630

Soil Analysed as Soil
Miscellaneous

				SAL Reference	**350010 006**	**350010 013**	**350010 028**	**350010 055**
				Customer Sample Reference	**WS20 ES 001 0.25**	**BH41 ES 012 3.0**	**BH44 ES 006 2.5**	**TP11 ES 004 1.6**
				Test Sample	**M105**	**M105**	**M105**	**M105**
				Date Sampled	**06-SEP-2013**	**09-SEP-2013**	**09-SEP-2013**	**10-SEP-2013**
				Depth	**0.25**	**3.0**	**2.5**	**1.6**
				Type	**Sandy Soil**	**Sandy Soil**	**Clay**	**Clay**
Determinand	**Method**	**LOD**	**Units**	**Symbol**				
Naphthalene	GC/MS(MCERTS)	0.1	mg/kg	M	**1.9**	<0.1	<0.1	<0.1
Acenaphthylene	GC/MS(MCERTS)	0.1	mg/kg	U	**0.2**	<0.1	<0.1	<0.1
Acenaphthene	GC/MS(MCERTS)	0.1	mg/kg	M	**2.6**	<0.1	<0.1	<0.1
Fluorene	GC/MS(MCERTS)	0.1	mg/kg	M	**2.2**	<0.1	<0.1	<0.1
Phenanthrene	GC/MS(MCERTS)	0.1	mg/kg	M	**16**	**1.1**	<0.1	<0.1
Anthracene	GC/MS(MCERTS)	0.1	mg/kg	U	**5.4**	**0.4**	<0.1	<0.1
Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	**24**	**2.4**	<0.1	<0.1
Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	**22**	**2.0**	<0.1	<0.1
Benzo(a)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	**9.9**	**0.8**	<0.1	<0.1
Chrysene	GC/MS(MCERTS)	0.1	mg/kg	M	**9.6**	**0.7**	<0.1	<0.1
Benzo(b/k)Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	**14**	**1.0**	<0.1	<0.1
Benzo(a)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	**7.3**	**0.5**	<0.1	<0.1
Indeno(123-cd)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	**3.0**	**0.2**	<0.1	<0.1
Dibenzo(ah)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	**0.8**	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	GC/MS(MCERTS)	0.1	mg/kg	M	**2.8**	**0.2**	<0.1	<0.1
Polyaromatic Hydrocarbons (Total)	GC/MS(MCERTS)	0.1	mg/kg	U	**140**	**9.3**	<0.1	<0.1
Phenol	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1	<0.1	<0.1	<0.1
Coronene	GC/MS	0.1	mg/kg	N	<0.1	<0.1	<0.1	<0.1
Total Petroleum Hydrocarbons	GC/FID	1	mg/kg	M	**230**	**230**	<1	**2400**
Total Petroleum Hydrocarbons (C35-C40)	GC/FID	1	mg/kg	N	**40**	**24**	<1	**4**
Benzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	<0.010
Toluene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	**0.012**	<0.010	<0.010	<0.010
EthylBenzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	**0.033**
Ortho-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010	<0.010	<0.010	<0.010
Meta/Para-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	**0.012**	<0.010	<0.010	<0.010
Polychlorinated biphenyl BZ#101	GC/MS (HR)	0.00005	mg/kg	M	(9) <0.00050	<0.00005	<0.00005	<0.00005
Polychlorinated biphenyl BZ#118	GC/MS (HR)	0.00005	mg/kg	M	(9) <0.00050	<0.00005	<0.00005	<0.00005
Polychlorinated biphenyl BZ#138	GC/MS (HR)	0.00005	mg/kg	M	**0.00090**	<0.00005	<0.00005	<0.00005
Polychlorinated biphenyl BZ#153	GC/MS (HR)	0.00005	mg/kg	M	**0.00060**	**0.00012**	<0.00005	<0.00005
Polychlorinated biphenyl BZ#180	GC/MS (HR)	0.00005	mg/kg	M	**0.00060**	**0.00025**	<0.00005	<0.00005
Polychlorinated biphenyl BZ#28	GC/MS (HR)	0.00005	mg/kg	M	(9) <0.00050	<0.00005	<0.00005	<0.00005
Polychlorinated biphenyl BZ#52	GC/MS (HR)	0.00005	mg/kg	M	(9) <0.00050	<0.00005	<0.00005	<0.00005

Index to symbols used in 350010-1

Value	Description
10:1	Leachate to BS EN 12457-2 (10:1)
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
8:1	Leachate to BS EN 12457-3 (8:1)
AR	As Received
2:1	Leachate to BS EN 12457-3 (2:1)
100	LOD determined by sample aliquot used for analysis
2	LOD Raised Due to Matrix Interference
9	LOD raised due to dilution of sample
IS	Insufficient Sample
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

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Wales (No 2514788) whose address is at
Hadfield House, Hadfield Street, Manchester M16 9FE

Scientific Analysis Laboratories Ltd

Certificate of Analysis

Hadfield House
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Report Number: 350456-1

Date of Report: 26-Sep-2013

Customer: Grontmij
Grove House
Mansion Gate Drive
Leeds
LS7 4DN

Customer Contact: Ms Linsey Cottrell

Customer Job Reference: 112630
Customer Purchase Order: 112814/14
Customer Site Reference: A63 Castle St - 49, 50
Date Job Received at SAL: 12-Sep-2013
Date Analysis Started: 16-Sep-2013
Date Analysis Completed: 26-Sep-2013

The results reported relate to samples received in the laboratory
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This report should not be reproduced except in full without the written approval of the laboratory
Tests covered by this certificate were conducted in accordance with SAL SOPs
All results have been reviewed in accordance with QP22

UKAS TESTING
1549

mCERTS THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

Report checked
and authorised by :
Mr Ross Walker
Customer Services Manager
(Land)

Issued by :
Mr Ross Walker
Customer Services Mana
(Land)

Waste Acceptance Criteria

Customer Sample Reference : WS05 ES005 3.0-4.0
SAL Sample Reference : 350456 009
Project Site : A63 Castle St - 49, 50
Customer Reference : 112630
Depth : 4.0
Top Depth : 3.0
Date Sampled : 11-SEP-2013
Test Portion Mass (g) : 175
Type : Clay

Soil Summary					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Acid Neutralising Capacity (pH 4)	Titration	2.0	Mol/kg	N	<2.0			
Acid Neutralising Capacity (pH 7)	Titration	2.0	Mol/kg	N	<2.0			
BTEX (Sum)	Calc	0.040	mg/kg	U	<0.040	6.0		
Loss on Ignition	Grav	0.1	%	N	7.8			10.0
Moisture	Grav	0.1	%	N	27			
PAH (Sum)	Calc	1.6	mg/kg	N	<1.6	100.0		
PCB EC7 (Sum)	Calc	0.00035	mg/kg	U	0.00068	1.0		
pH	Probe			M	8.4		>6.0	
Total Organic Carbon	OX/IR	0.1	%	N	1.0	3.0	5.0	6.0
TPH C10-C40 (sum)	Calc	1	mg/kg	N	<1	500.0		

10:1 Leachate					Result	Inert Waste Landfill	Stable non reactive	Hazardous Waste Landfill
Determinand	**Technique**	**LOD**	**Units**	**Symbol**				
Antimony (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.015	0.06	0.7	5.0
Arsenic (Dissolved)	Calc / ICP/MS (Filtered)	0.0020	mg/kg	N	0.026	0.5	2.0	25.0
Barium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.17	20.0	100.0	300.0
Cadmium (Dissolved)	Calc / ICP/MS (Filtered)	0.00020	mg/kg	N	0.00035	0.04	1.0	5.0
Chloride	Calc / Discrete Analyser	10	mg/kg	N	210	800.0	15000.0	25000.0
Chromium (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.043	0.5	10.0	70.0
Copper (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	0.019	2.0	50.0	100.0
Dissolved Organic Carbon	Calc / OX/IR	10	mg/kg	N	270	500.0	800.0	1000.0
Fluoride	Calc / Discrete Analyser	0.50	mg/kg	N	3.9	10.0	150.0	500.0
Lead (Dissolved)	Calc / ICP/MS (Filtered)	0.0030	mg/kg	N	<0.0030	0.5	10.0	50.0
Mercury (Dissolved)	Calc / ICP/MS (Filtered)	0.00050	mg/kg	N	<0.00050	0.01	0.2	2.0
Molybdenum (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	0.27	0.5	10.0	30.0
Nickel (Dissolved)	Calc / ICP/MS (Filtered)	0.010	mg/kg	N	<0.010	0.4	10.0	40.0
Phenols(Mono)	Calc / Colorimetry	1.0	mg/kg	N	<1.0	1.0		
Selenium (Dissolved)	Calc / ICP/MS (Filtered)	0.0050	mg/kg	N	<0.0050	0.1	0.5	7.0
Sulphate	Calc / Discrete Analyser	5.0	mg/kg	N	340	1000.0	20000.0	50000.0
Total Dissolved Solids	Calc	100	mg/kg	N	2200	4000.0	60000.0	100000.0
Zinc (Dissolved)	Calc / ICP/MS (Filtered)	0.020	mg/kg	N	0.035	4.0	50.0	200.0

From: EC Directive 99/31/EC and Landfill Regulations 2002 (as ammended)

Note:- Sample failed to produce sufficient eluate within the specified time after vacuum filtration for 1 hour and centrifugation for 30 minutes. Therefore, the exact application of the two-step leaching test is precluded on technical grounds. (ref: Section 5.2.4 BS EN 12457-3:2002) Results are derived from a single step leaching at L/S 10/1 as prescribed by the EA guidance. (Ref Section C4.1.1 Guidance on Sampling and Testing of Wastes to meet Landfill Waste Acceptance Procedures Version 1 April 2005, Environment Agency)

Notes:- Cumulative release at L/S=10 (mg/kg of dry matter) in accordance with BS EN 12457. Soil leaching procedure is not covered by our UKAS accreditation

SAL Reference: 350456
Project Site: A63 Castle St - 49, 50
Customer Reference: 112630

Soil Analysed as Soil
WAC

SAL Reference	**350456 009**
Customer Sample Reference	**WS05 ES005 3.0-4.0**
Test Sample	**AR**
Top Depth	**3.0**
Depth	**4.0**
Date Sampled	**11-SEP-2013**
Type	**Clay**

Determinand	Method	LOD	Units	Symbol	
Moisture @ 105 C	Grav (1 Dec) (105 C)	0.1	%	N	**27**
Moisture	Grav (1 Dec) (40 C)	0.1	%	N	**23**

SAL Reference: 350456
Project Site: A63 Castle St - 49, 50
Customer Reference: 112630

Soil Analysed as Soil
WAC

SAL Reference	**350456 009**
Customer Sample Reference	**WS05 ES005 3.0-4.0**
Test Sample	**M105**
Top Depth	**3.0**
Depth	**4.0**
Date Sampled	**11-SEP-2013**
Type	**Clay**

Determinand	Method	LOD	Units	Symbol	
Acenaphthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Acenaphthylene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1
Anthracene	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1
Benzo(a)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Benzo(a)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Benzo(b/k)Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Benzo(ghi)Perylene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Chrysene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Dibenzo(ah)Anthracene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Fluoranthene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Fluorene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Indeno(123-cd)Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Naphthalene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Phenanthrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Pyrene	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Polyaromatic Hydrocarbons (Total)	GC/MS(MCERTS)	0.1	mg/kg	U	<0.1
Coronene	GC/MS	0.1	mg/kg	N	<0.1
Phenol	GC/MS(MCERTS)	0.1	mg/kg	M	<0.1
Total Petroleum Hydrocarbons	GC/FID	1	mg/kg	M	<1
Total Petroleum Hydrocarbons (C35-C40)	GC/FID	1	mg/kg	N	<1
Benzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010
Toluene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010
EthylBenzene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010
Ortho-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010
Meta/Para-Xylene	GC/MS(Head Space)(MCERTS)	0.010	mg/kg	M	<0.010
Polychlorinated biphenyl BZ#101	GC/MS (HR)	0.00005	mg/kg	M	**0.00009**
Polychlorinated biphenyl BZ#118	GC/MS (HR)	0.00005	mg/kg	M	**0.00011**
Polychlorinated biphenyl BZ#138	GC/MS (HR)	0.00005	mg/kg	M	**0.00016**
Polychlorinated biphenyl BZ#153	GC/MS (HR)	0.00005	mg/kg	M	**0.00014**
Polychlorinated biphenyl BZ#180	GC/MS (HR)	0.00005	mg/kg	M	**0.00018**
Polychlorinated biphenyl BZ#28	GC/MS (HR)	0.00005	mg/kg	M	<0.00005
Polychlorinated biphenyl BZ#52	GC/MS (HR)	0.00005	mg/kg	M	<0.00005

Index to symbols used in 350456-1

Value	Description
2:1	Leachate to BS EN 12457-3 (2:1)
M105	Analysis conducted on an "as received" aliquot. Results are reported on a dry weight basis where moisture content was determined by assisted drying of sample at 105C
8:1	Leachate to BS EN 12457-3 (8:1)
AR	As Received
M	Analysis is MCERTS accredited
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Appendix K: WAC analyses