nationalgrid

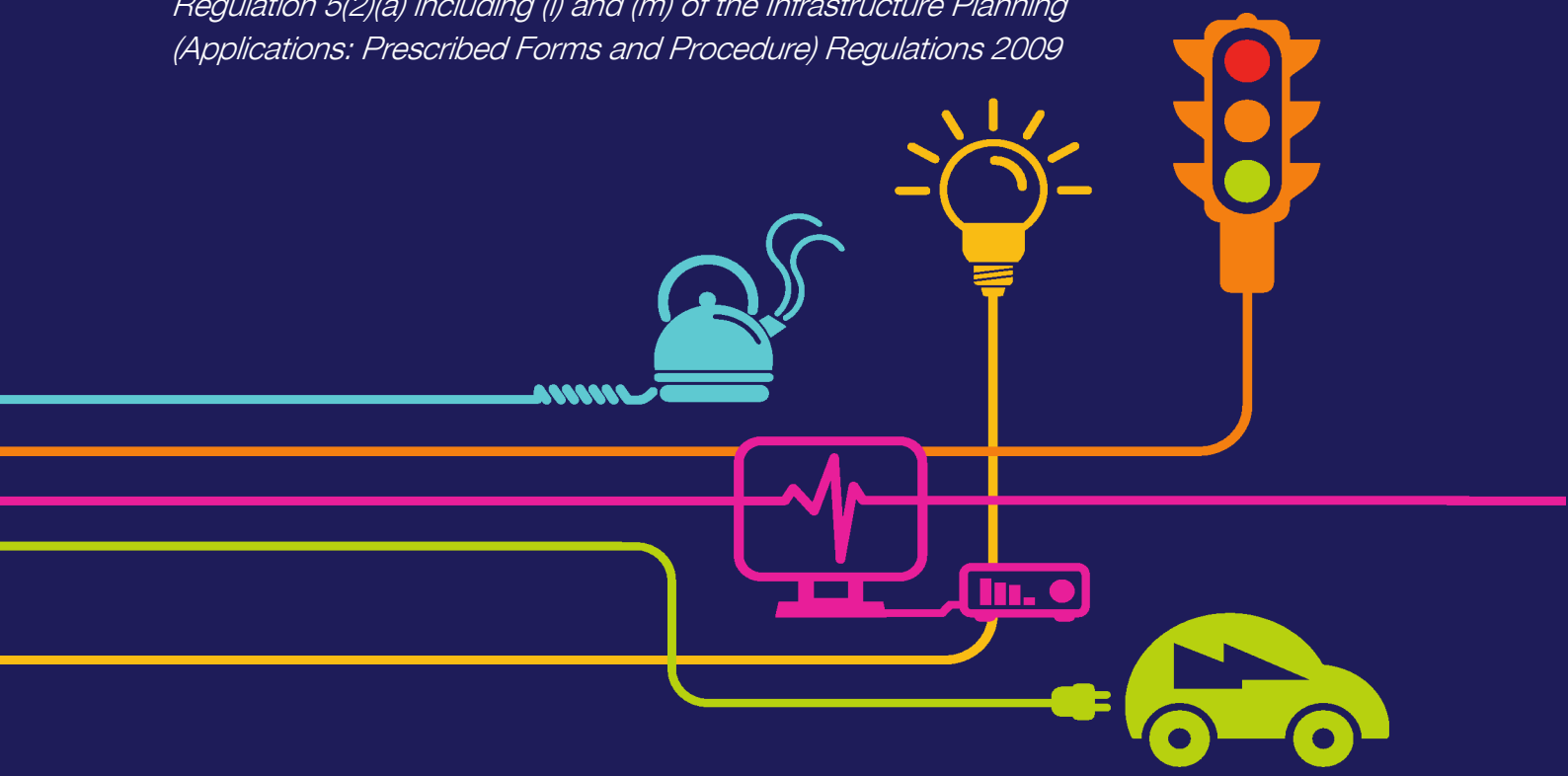
DOCUMENT 5.11.2.7 (Part 4 of 4)

Ground Investigation Information

Chapter 11 – Appendix 7

National Grid (North Wales Connection Project)

Regulation 5(2)(a) including (l) and (m) of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009



nationalgrid

North Wales Connection Project

Volume 5

Document 5.11.2.7 Appendix 11.7 Part 4 of 4

2017 OHL Ground Investigation Information & Human Health Risk Assessment Contamination Screening

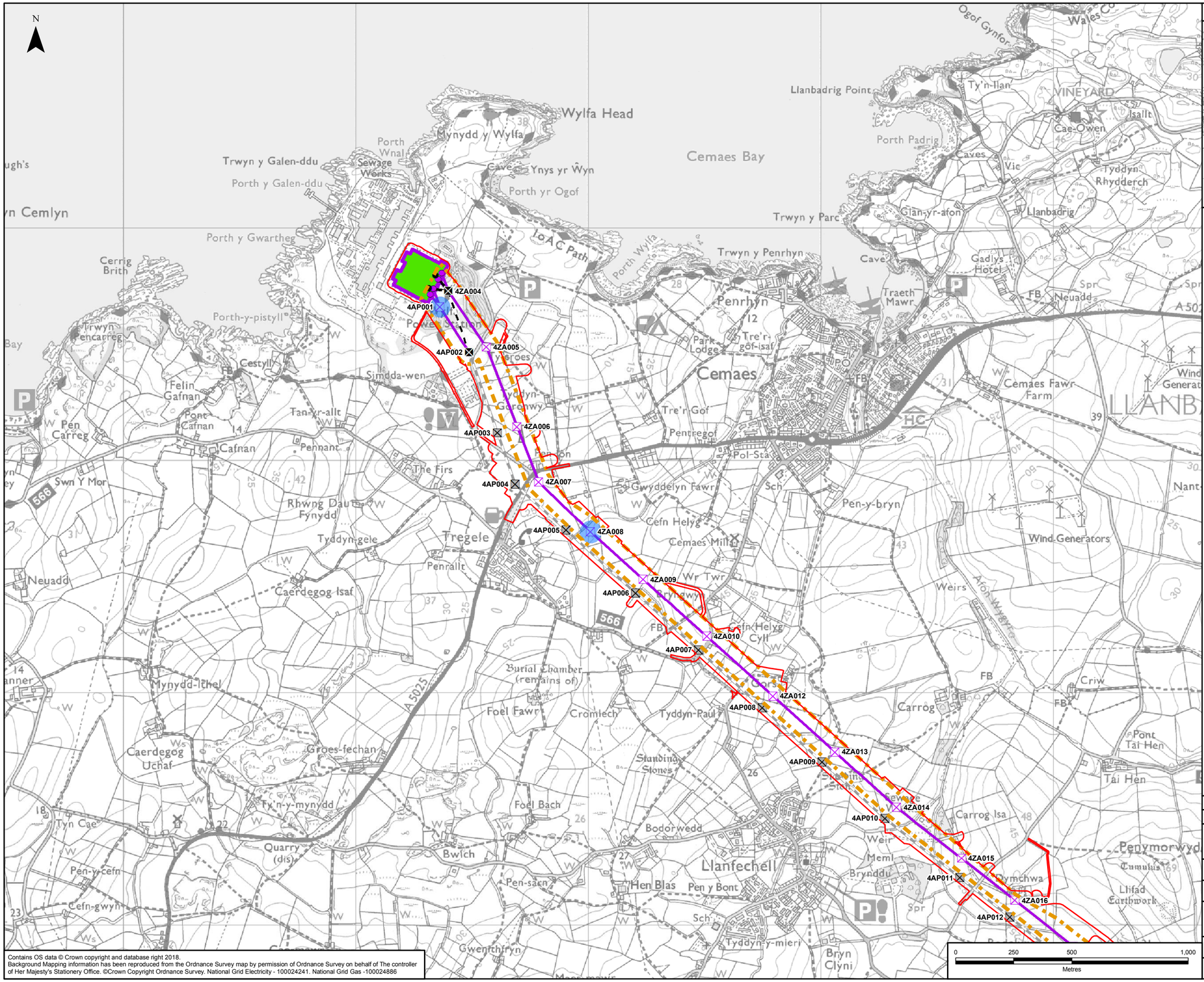
National Grid
National Grid House
Warwick Technology Park
Gallows Hill
Warwick
CV34 6DA

Final September 2018

Page intentionally blank

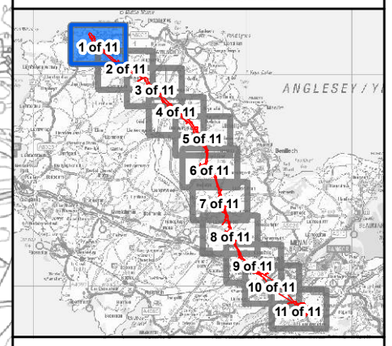
Document Control			
Document Properties			
Organisation	AECOM		
Author	Will Hartas		
Approved by	Nick Struggles		
Title	Appendix 11.7 Ground Investigation Information Part 4		
Document Reference	Document 5.11.2.7		
Version History			
Date	**Version**	**Status**	**Description/Changes**
Final September 2018	Rev A	Final	Final for submission

Page intentionally blank



Contains OS data © Crown copyright and database right 2018.
Background Mapping information has been reproduced from the Ordnance Survey map by permission of Ordnance Survey on behalf of The controller of Her Majesty's Stationery Office. ©Crown Copyright Ordnance Survey. National Grid Electricity - 100024241. National Grid Gas -100024886

NWC ROUTE LEGEND



LEGEND

- ORDER LIMITS
- SECTION CUTLINES
- ABOVE GROUND LIMITS OF DEVIATION (LOD)
- NEW GANTRY (FULL LINE TENSION)
- NEW GANTRY
- GANTRY TO BE REMOVED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON TO BE MODIFIED
- EXISTING LATTICE PYLON NOT AFFECTED
- NEW OVERHEAD LINE
- EXISTING OVERHEAD LINE TO BE REMOVED
- EXISTING OVERHEAD LINE TO BE MODIFIED
- EXISTING OVERHEAD LINE NOT AFFECTED
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING 132KV OUTDOOR SUBSTATION
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- APPROXIMATE BOREHOLE LOCATIONS

Rev	Date	Description	GIS	Chk	App
A	25/07/2018	ENVIRONMENTAL STATEMENT	JB	WH	NS

nationalgrid

Scheme: NORTH WALES CONNECTION PROJECT

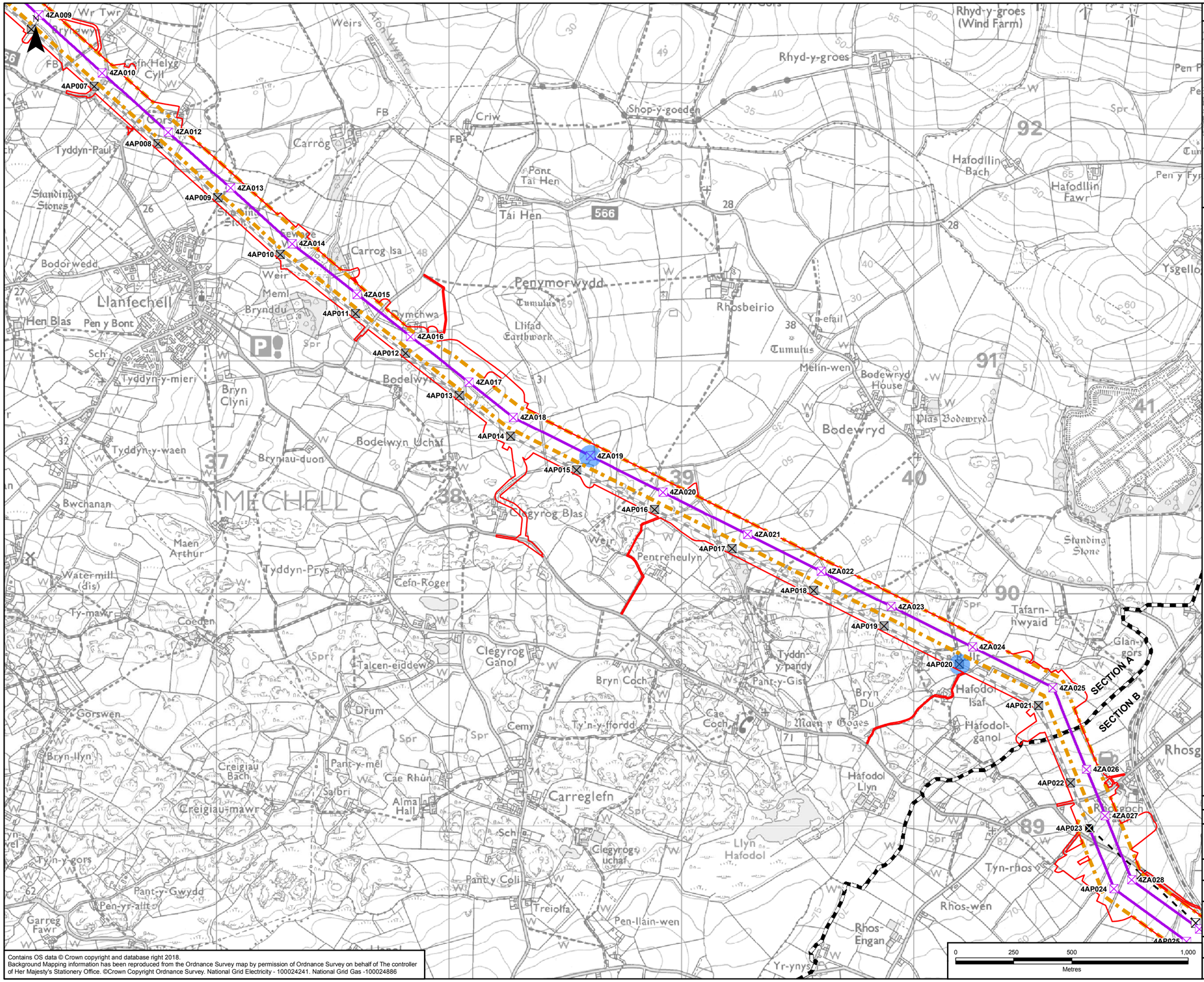
Document Number: 5.11.2.7

Document Title: FIGURE 1 APPROXIMATE BOREHOLE LOCATIONS SECTION A

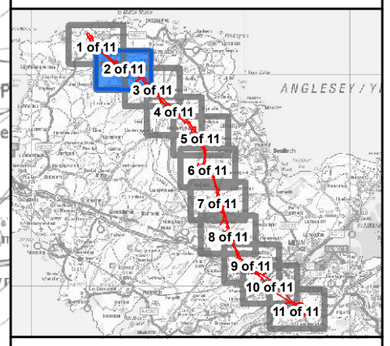
Creator:	Date:	Checker:	Date:	Approver:	Date:
JB	25/07/2018	WH	25/07/2018	NS	25/07/2018

Document Type:	Scale:	Format:	Sheets:	Rev.
FIGURE	1:15,000	A3	1 of 11	A

Document Path: F:\Proposal\3512\North Wales Connection - NG\GIS\02 Maps\Geotech_ES Figs_DCO 2018\GEO_APP_5-11-2-7_Fig1_BoreholeLocations_PS_20180725_JB.mxd



NWC ROUTE LEGEND



LEGEND

- ORDER LIMITS
- SECTION CUTLINES
- ABOVE GROUND LIMITS OF DEVIATION (LOD)
- NEW GANTRY (FULL LINE TENSION)
- NEW GANTRY
- GANTRY TO BE REMOVED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON TO BE MODIFIED
- EXISTING LATTICE PYLON NOT AFFECTED
- NEW OVERHEAD LINE
- EXISTING OVERHEAD LINE TO BE REMOVED
- EXISTING OVERHEAD LINE TO BE MODIFIED
- EXISTING OVERHEAD LINE NOT AFFECTED
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING 132KV OUTDOOR SUBSTATION
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- APPROXIMATE BOREHOLE LOCATIONS

Rev	Date	Description	GIS	Chk	App
A	25/07/2018	ENVIRONMENTAL STATEMENT	JB	WH	NS

nationalgrid

Scheme: NORTH WALES CONNECTION PROJECT

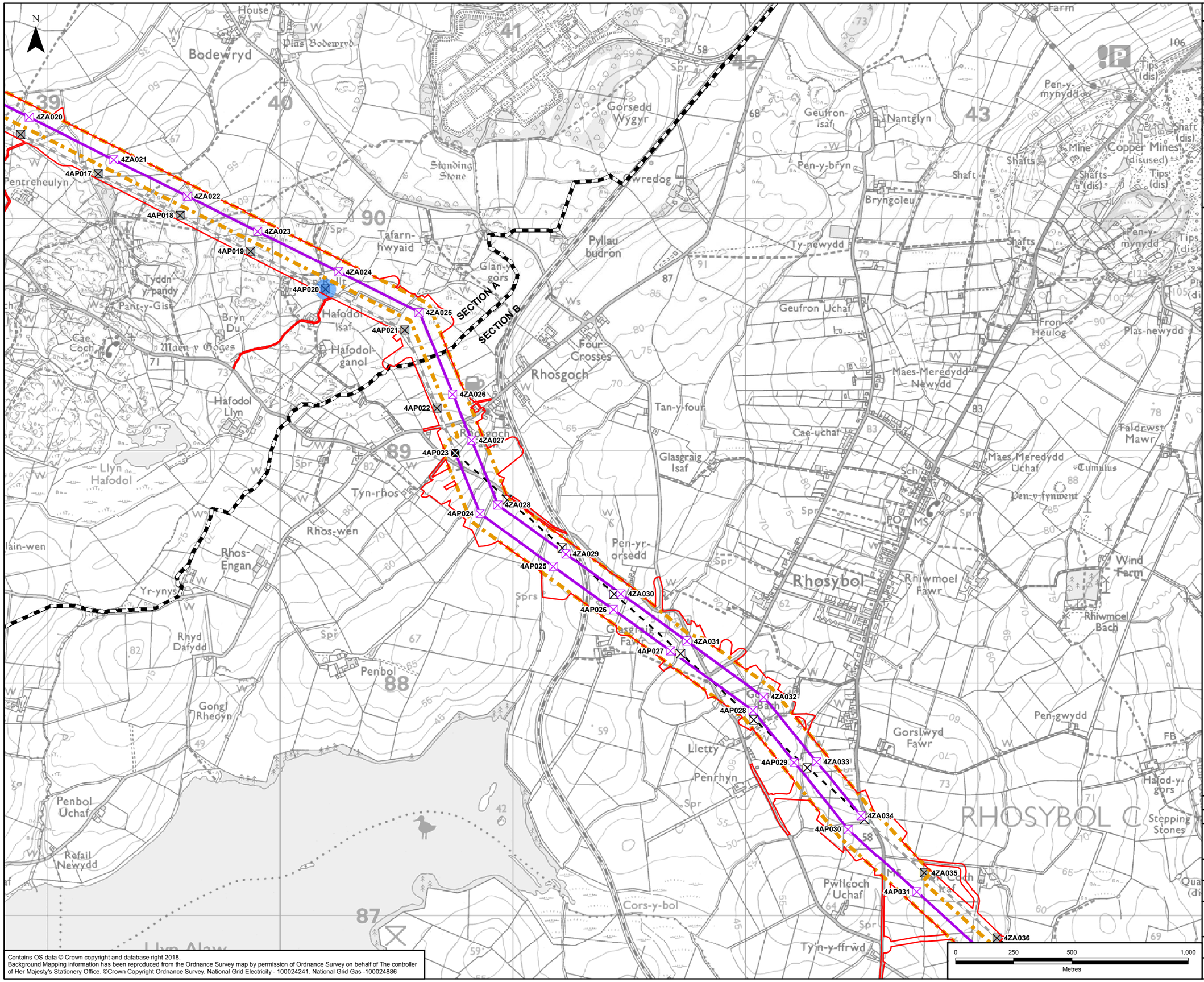
Document Number: 5.11.2.7

Document Title: FIGURE 1 APPROXIMATE BOREHOLE LOCATIONS SECTION A

Creator:	Date:	Checker:	Date:	Approver:	Date:
JB	25/07/2018	WH	25/07/2018	NS	25/07/2018

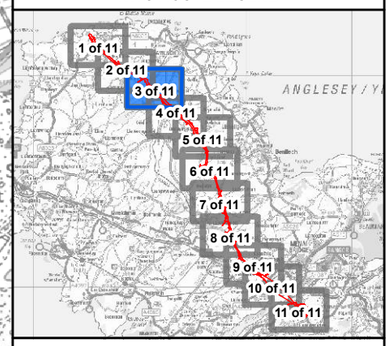
Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:15,000	A3	2 of 11	A

Document Path: F:\Proposal\3512\North Wales Connection - NG\GIS\02 Maps\Geotech_ES Figs_DCO 2018\GEO_APP_5-11-2-7_Fig1_BoreholeLocations_PS_20180725_JB.mxd



Contains OS data © Crown copyright and database right 2018.
Background Mapping information has been reproduced from the Ordnance Survey map by permission of Ordnance Survey on behalf of The controller of Her Majesty's Stationery Office. ©Crown Copyright Ordnance Survey. National Grid Electricity - 100024241. National Grid Gas -100024886

NWC ROUTE LEGEND



LEGEND

- ORDER LIMITS
- SECTION CUTLINES
- ABOVE GROUND LIMITS OF DEVIATION (LOD)
- NEW GANTRY (FULL LINE TENSION)
- NEW GANTRY
- GANTRY TO BE REMOVED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON TO BE MODIFIED
- EXISTING LATTICE PYLON NOT AFFECTED
- NEW OVERHEAD LINE
- EXISTING OVERHEAD LINE TO BE REMOVED
- EXISTING OVERHEAD LINE TO BE MODIFIED
- EXISTING OVERHEAD LINE NOT AFFECTED
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING 132KV OUTDOOR SUBSTATION
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- APPROXIMATE BOREHOLE LOCATIONS

Rev	Date	Description	GIS	Chk	App
A	25/07/2018	ENVIRONMENTAL STATEMENT	JB	WH	NS

nationalgrid

Scheme: NORTH WALES CONNECTION PROJECT

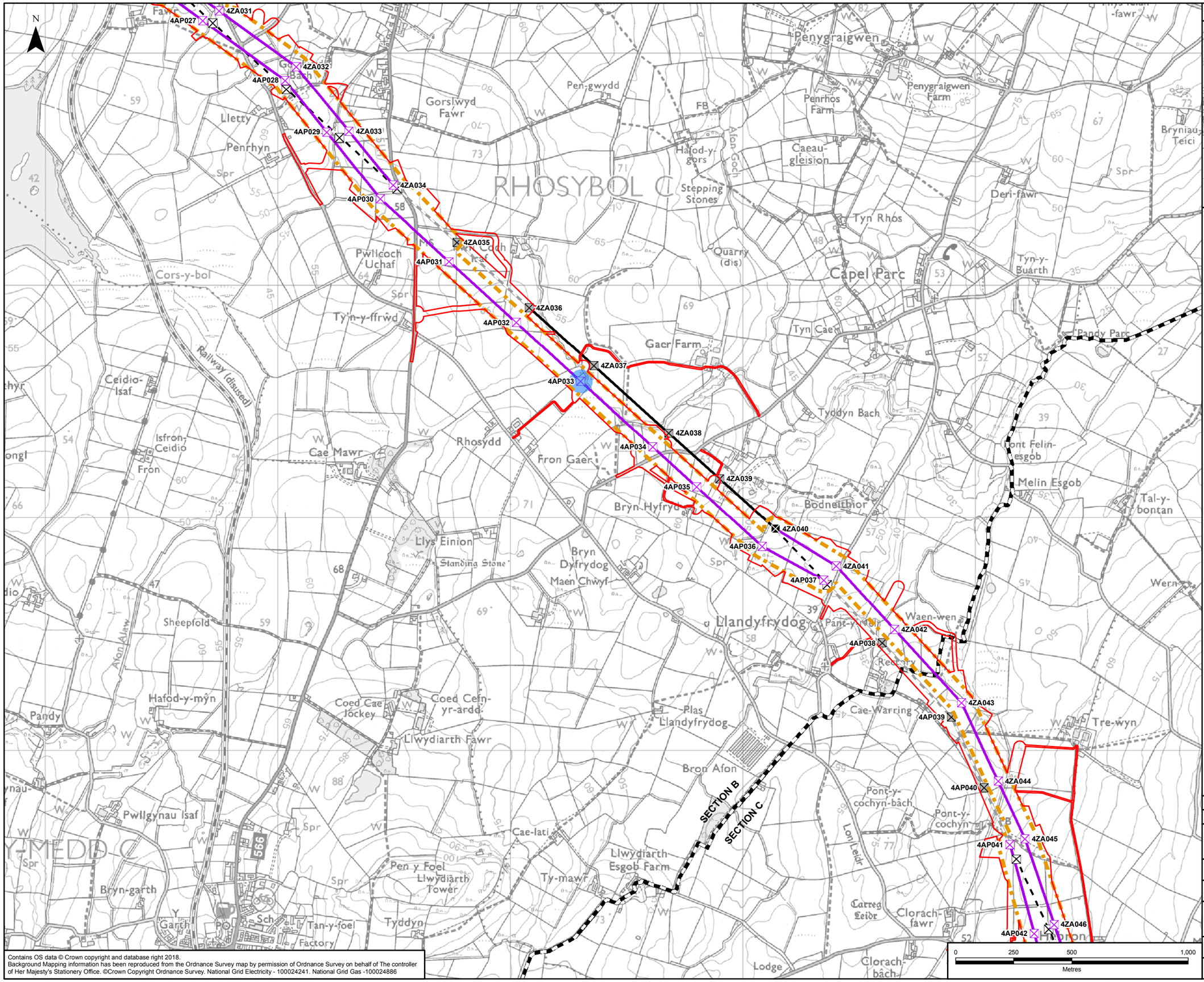
Document Number: 5.11.2.7

Document Title: FIGURE 1 APPROXIMATE BOREHOLE LOCATIONS SECTION B

Creator:	Date:	Checker:	Date:	Approver:	Date:
JB	25/07/2018	WH	25/07/2018	NS	25/07/2018

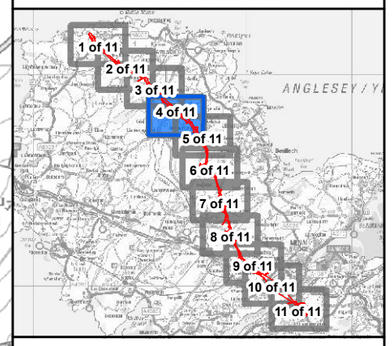
Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:15,000	A3	3 of 11	A

Document Path: F:\Proposal\3512\North Wales Connection - NG\GIS\02 Maps\Geotech_ES Figs_DCO 2018\GEO_APP_5-11-2-7_Fig1_BoreholeLocations_PS_20180725_JB.mxd



Contains OS data © Crown copyright and database right 2018.
Background Mapping information has been reproduced from the Ordnance Survey map by permission of Ordnance Survey on behalf of The controller of Her Majesty's Stationery Office. ©Crown Copyright Ordnance Survey. National Grid Electricity - 100024241. National Grid Gas -100024886

NWC ROUTE LEGEND



LEGEND

- ORDER LIMITS
- SECTION CUTLINES
- ABOVE GROUND LIMITS OF DEVIATION (LOD)
- NEW GANTRY (FULL LINE TENSION)
- NEW GANTRY
- GANTRY TO BE REMOVED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON TO BE MODIFIED
- EXISTING LATTICE PYLON NOT AFFECTED
- NEW OVERHEAD LINE
- EXISTING OVERHEAD LINE TO BE REMOVED
- EXISTING OVERHEAD LINE TO BE MODIFIED
- EXISTING OVERHEAD LINE NOT AFFECTED
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING 132KV OUTDOOR SUBSTATION
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- APPROXIMATE BOREHOLE LOCATIONS

Rev	Date	Description	GIS	Chk	App
A	25/07/2018	ENVIRONMENTAL STATEMENT	JB	WH	NS

nationalgrid

Scheme: NORTH WALES CONNECTION PROJECT

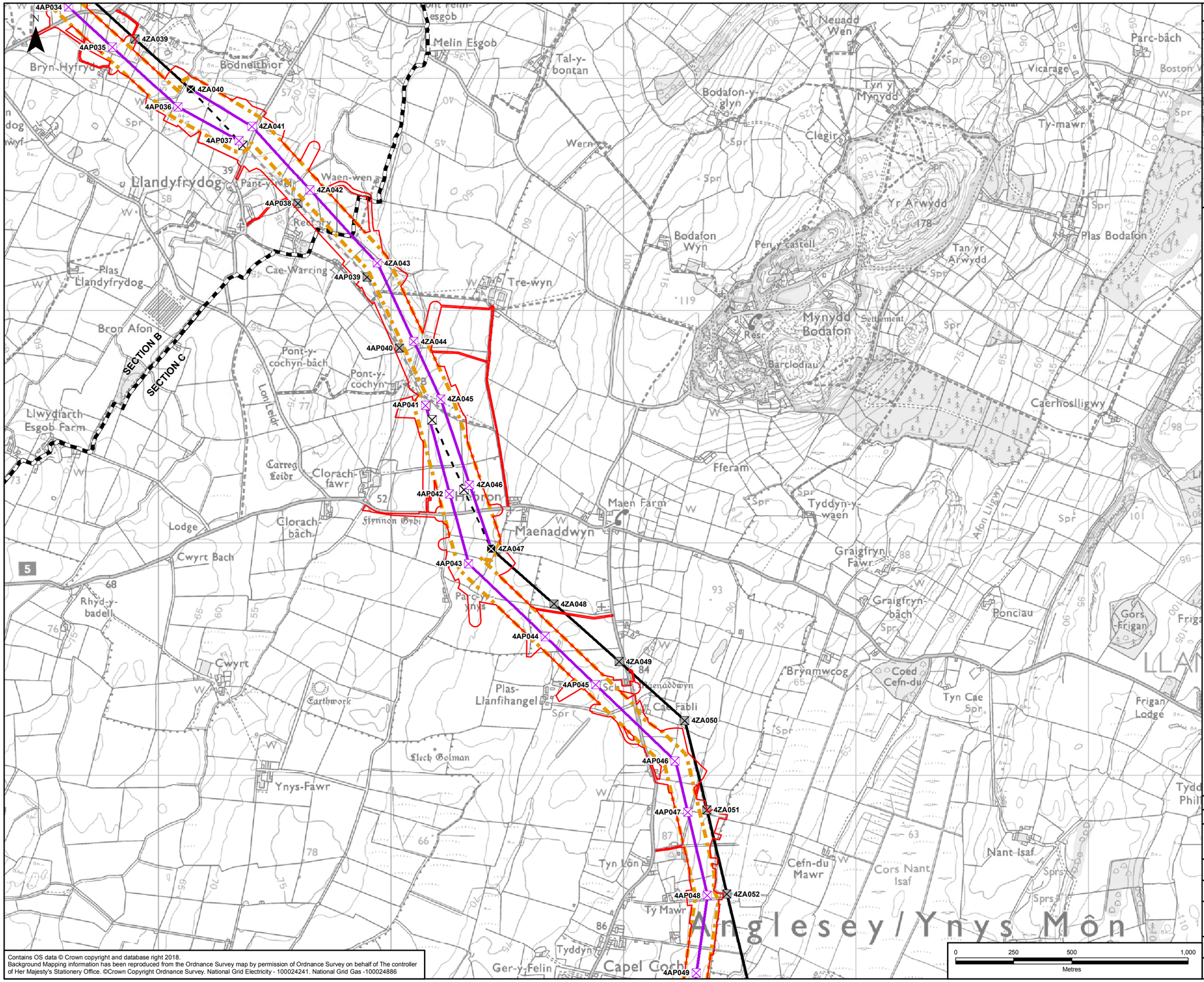
Document Number: 5.11.2.7

Document Title: FIGURE 1 APPROXIMATE BOREHOLE LOCATIONS SECTION B

Creator:	Date:	Checker:	Date:	Approver:	Date:
JB	25/07/2018	WH	25/07/2018	NS	25/07/2018

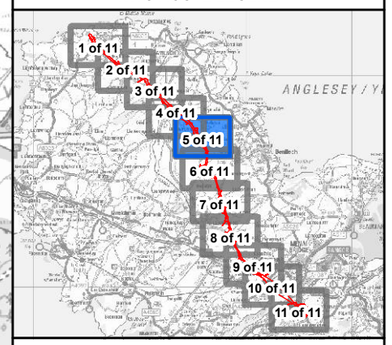
Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:15,000	A3	4 of 11	A

Document Path: F:\Proposal\3512\North Wales Connection - NG\GIS\02 Maps\Geotech_ES Figs_DCO 2018\GEO_APP_5-11-2-7_Fig1_BoreholeLocations_PS_20180725_JB.mxd



Contains OS data © Crown copyright and database right 2018.
Background Mapping information has been reproduced from the Ordnance Survey map by permission of Ordnance Survey on behalf of The controller of Her Majesty's Stationery Office. ©Crown Copyright Ordnance Survey. National Grid Electricity - 100024241. National Grid Gas -100024886

NWC ROUTE LEGEND



LEGEND

- ORDER LIMITS
- SECTION CUTLINES
- ABOVE GROUND LIMITS OF DEVIATION (LOD)
- NEW GANTRY (FULL LINE TENSION)
- NEW GANTRY
- GANTRY TO BE REMOVED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON TO BE MODIFIED
- EXISTING LATTICE PYLON NOT AFFECTED
- NEW OVERHEAD LINE
- EXISTING OVERHEAD LINE TO BE REMOVED
- EXISTING OVERHEAD LINE TO BE MODIFIED
- EXISTING OVERHEAD LINE NOT AFFECTED
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING 132KV OUTDOOR SUBSTATION
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- APPROXIMATE BOREHOLE LOCATIONS

Rev	Date	Description	GIS	Chk	App
A	25/07/2018	ENVIRONMENTAL STATEMENT	JB	WH	NS

nationalgrid

Scheme: NORTH WALES CONNECTION PROJECT

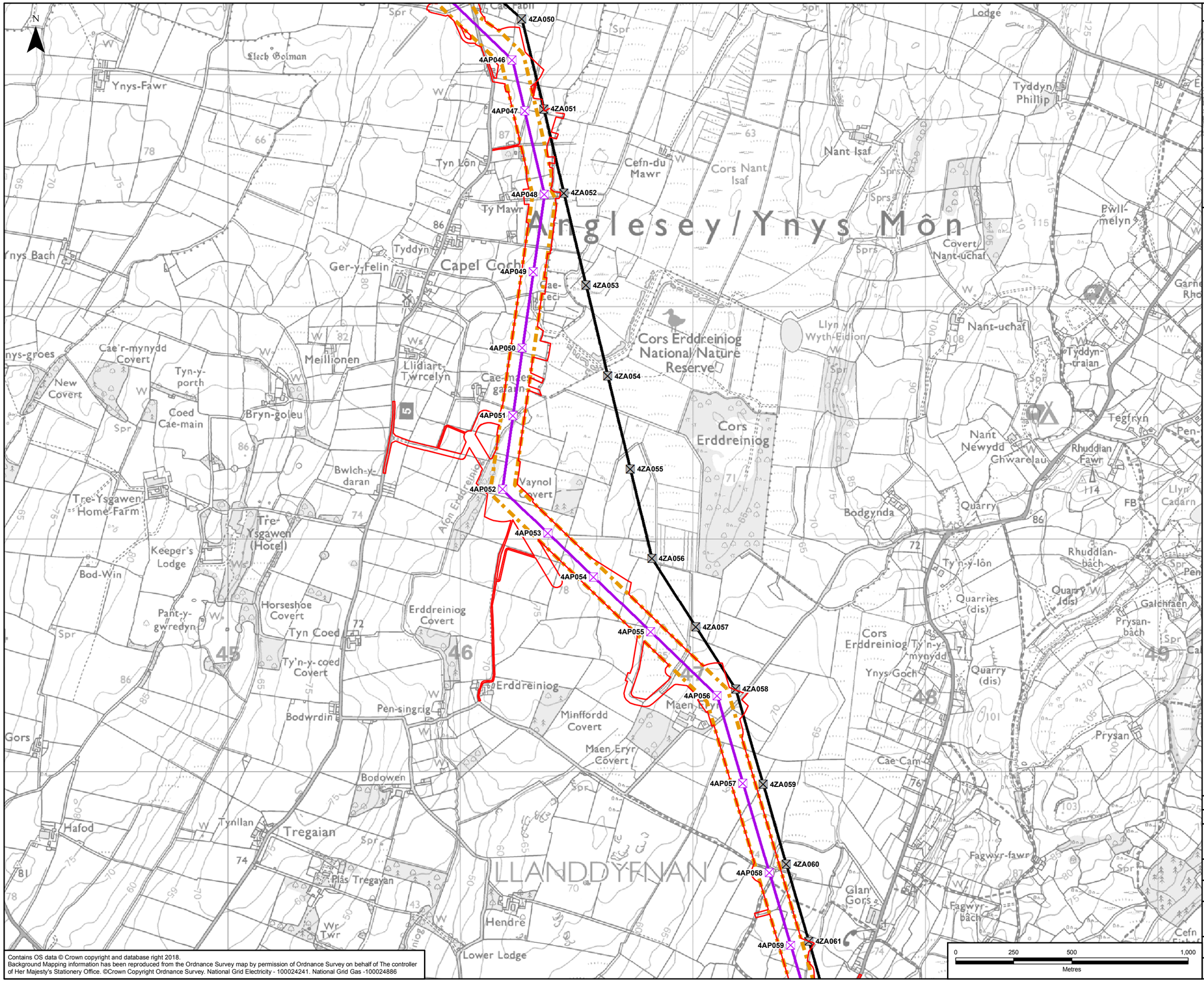
Document Number: 5.11.2.7

Document Title: FIGURE 1 APPROXIMATE BOREHOLE LOCATIONS SECTION C

Creator:	Date:	Checker:	Date:	Approver:	Date:
JB	25/07/2018	WH	25/07/2018	NS	25/07/2018

Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:15,000	A3	5 of 11	A

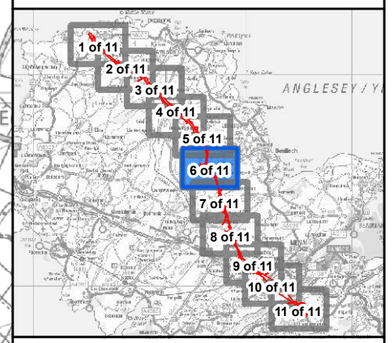
Document Path: F:\Proposal\3512\North Wales Connection - NG\GIS\02 Maps\Geotech_ES Figs_DCO 2018\GEO_APP_5-11-2-7_Fig1_BoreholeLocations_PS_20180725_JB.mxd



Contains OS data © Crown copyright and database right 2018.
Background Mapping information has been reproduced from the Ordnance Survey map by permission of Ordnance Survey on behalf of The controller of Her Majesty's Stationery Office. ©Crown Copyright Ordnance Survey. National Grid Electricity - 100024241. National Grid Gas -100024886

0 250 500 1,000
Metres

NWC ROUTE LEGEND



LEGEND

- ORDER LIMITS - OPTION A
- SECTION CUTLINES
- ABOVE GROUND LIMITS OF DEVIATION (LOD) - OPTION A
- NEW GANTRY (FULL LINE TENSION)
- NEW GANTRY
- GANTRY TO BE REMOVED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON TO BE MODIFIED
- EXISTING LATTICE PYLON NOT AFFECTED
- NEW OVERHEAD LINE
- EXISTING OVERHEAD LINE TO BE REMOVED
- EXISTING OVERHEAD LINE TO BE MODIFIED
- EXISTING OVERHEAD LINE NOT AFFECTED
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING 132KV OUTDOOR SUBSTATION
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- APPROXIMATE BOREHOLE LOCATIONS

Rev	Date	Description	GIS	Chk	App
A	25/07/2018	ENVIRONMENTAL STATEMENT	JB	WH	NS

nationalgrid

Scheme: NORTH WALES CONNECTION PROJECT

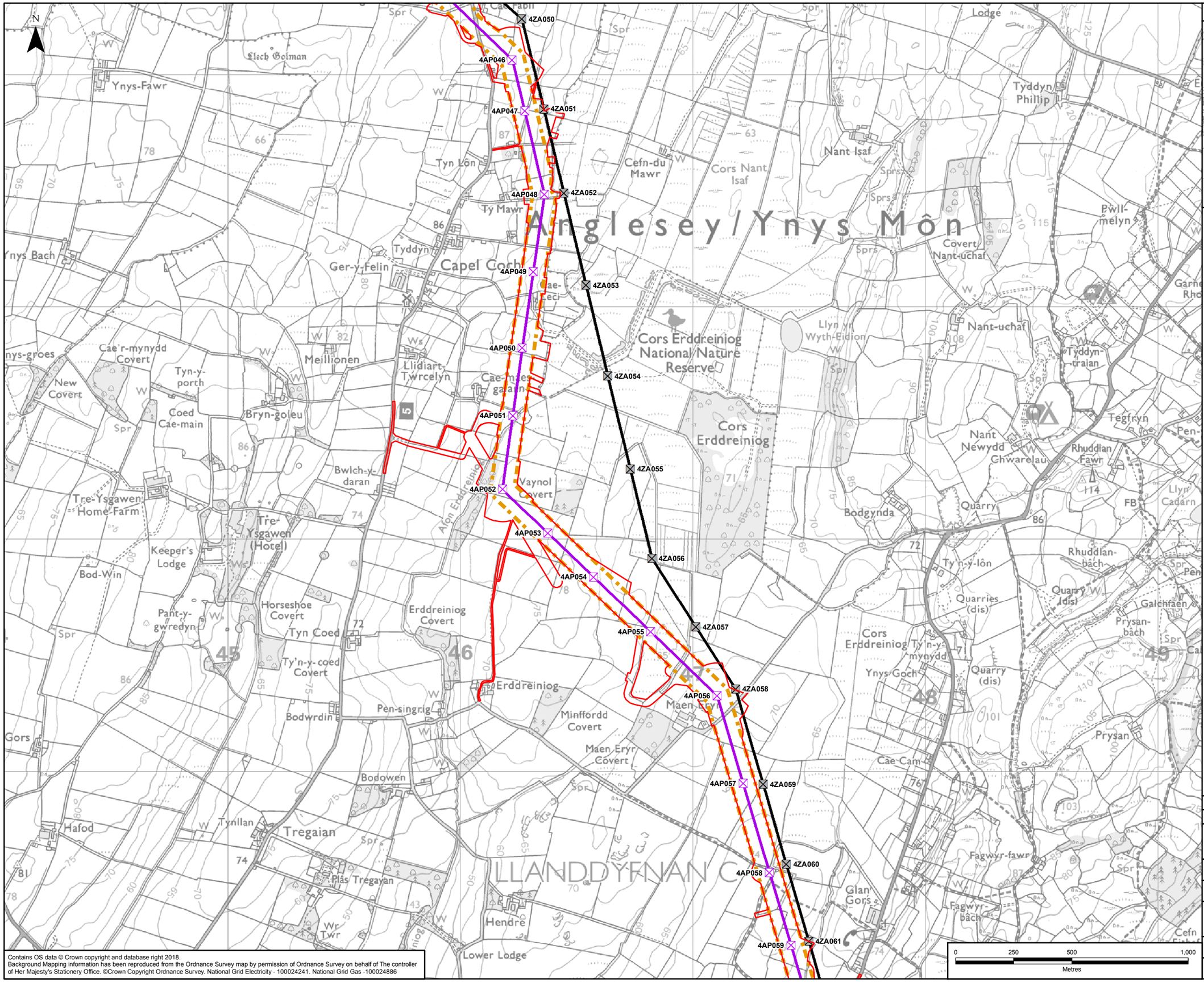
Document Number: 5.11.2.7

Document Title: FIGURE 1 APPROXIMATE BOREHOLE LOCATIONS SECTION C OPTION A

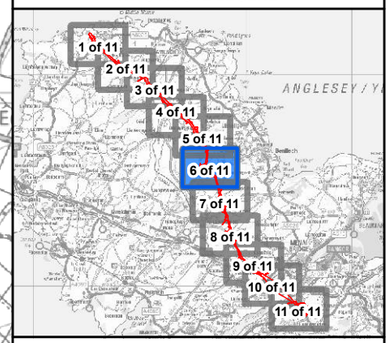
Creator:	Date:	Checker:	Date:	Approver:	Date:
JB	25/07/2018	WH	25/07/2018	NS	25/07/2018

Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:15,000	A3	6 of 11 Option A	A

Document Path: F:\Proposal\3512\North Wales Connection - NG\GIS\02 Maps\Geotech_ES Figs_DCO 2018\GEO_APP_5-11-2-7_Fig1_BoreholeLocations_PS_20180725_JB.mxd



NWC ROUTE LEGEND



LEGEND

- ORDER LIMITS - OPTION B
- SECTION CUTLINES
- ABOVE GROUNDLIMITS OF DEVIATION (LOD) - OPTION B
- NEW GANTRY (FULL LINE TENSION)
- NEW GANTRY
- GANTRY TO BE REMOVED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON TO BE MODIFIED
- EXISTING LATTICE PYLON NOT AFFECTED
- NEW OVERHEAD LINE
- EXISTING OVERHEAD LINE TO BE REMOVED
- EXISTING OVERHEAD LINE TO BE MODIFIED
- EXISTING OVERHEAD LINE NOT AFFECTED
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING 132KV OUTDOOR SUBSTATION
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- APPROXIMATE BOREHOLE LOCATIONS

Rev	Date	Description	GIS	Chk	App
A	25/07/2018	ENVIRONMENTAL STATEMENT	JB	WH	NS

nationalgrid

Scheme: NORTH WALES CONNECTION PROJECT

Document Number: 5.11.2.7

Document Title: FIGURE 1 APPROXIMATE BOREHOLE LOCATIONS SECTION C OPTION B

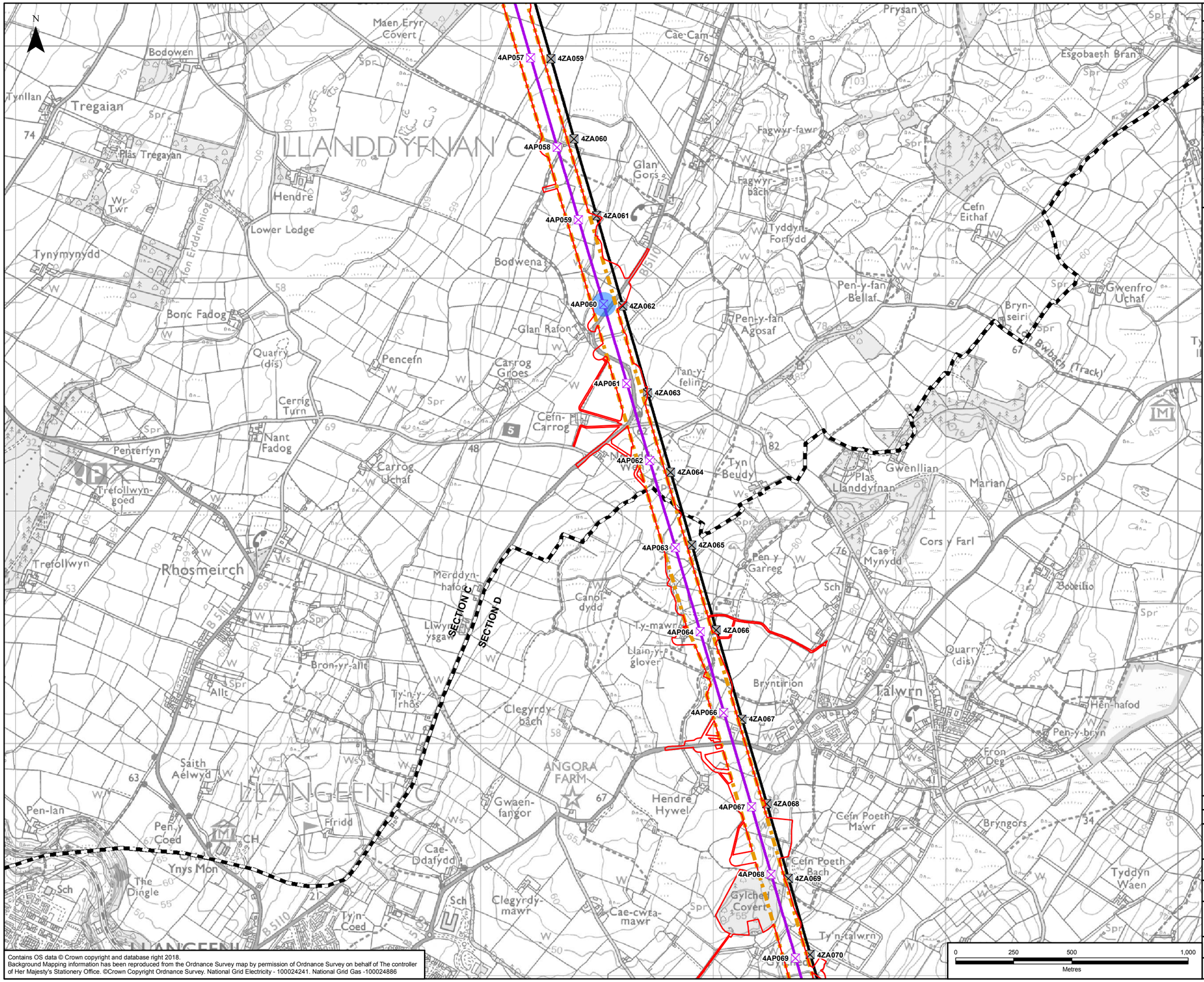
Creator:	Date:	Checker:	Date:	Approver:	Date:
JB	25/07/2018	WH	25/07/2018	NS	25/07/2018

Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:15,000	A3	6 of 11 Option B	A

0 250 500 1,000
Metres

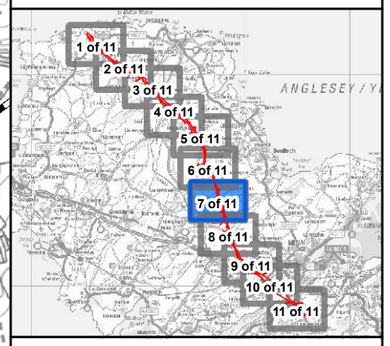
Contains OS data © Crown copyright and database right 2018.
Background Mapping information has been reproduced from the Ordnance Survey map by permission of Ordnance Survey on behalf of The controller of Her Majesty's Stationery Office. ©Crown Copyright Ordnance Survey. National Grid Electricity - 100024241. National Grid Gas -100024886

Document Path: F:\Proposal\3512\North Wales Connection - NG\GIS\02 Maps\Geotech_ES Figs_DCO 2018\GEO_APP_5-11-2-7_Fig1_BoreholeLocations_PS_20180725_JB.mxd



Contains OS data © Crown copyright and database right 2018.
Background Mapping information has been reproduced from the Ordnance Survey map by permission of Ordnance Survey on behalf of The controller of Her Majesty's Stationery Office. ©Crown Copyright Ordnance Survey. National Grid Electricity - 100024241. National Grid Gas -100024886

NWC ROUTE LEGEND



LEGEND

- ORDER LIMITS - OPTION A
- SECTION CUTLINES
- ABOVE GROUND LIMITS OF DEVIATION (LOD) - OPTION A
- NEW GANTRY (FULL LINE TENSION)
- NEW GANTRY
- GANTRY TO BE REMOVED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON TO BE MODIFIED
- EXISTING LATTICE PYLON NOT AFFECTED
- NEW OVERHEAD LINE
- EXISTING OVERHEAD LINE TO BE REMOVED
- EXISTING OVERHEAD LINE TO BE MODIFIED
- EXISTING OVERHEAD LINE NOT AFFECTED
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING 132KV OUTDOOR SUBSTATION
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- APPROXIMATE BOREHOLE LOCATIONS

Rev	Date	Description	GIS	Chk	App
A	25/07/2018	ENVIRONMENTAL STATEMENT	JB	WH	NS

nationalgrid

Scheme: NORTH WALES CONNECTION PROJECT

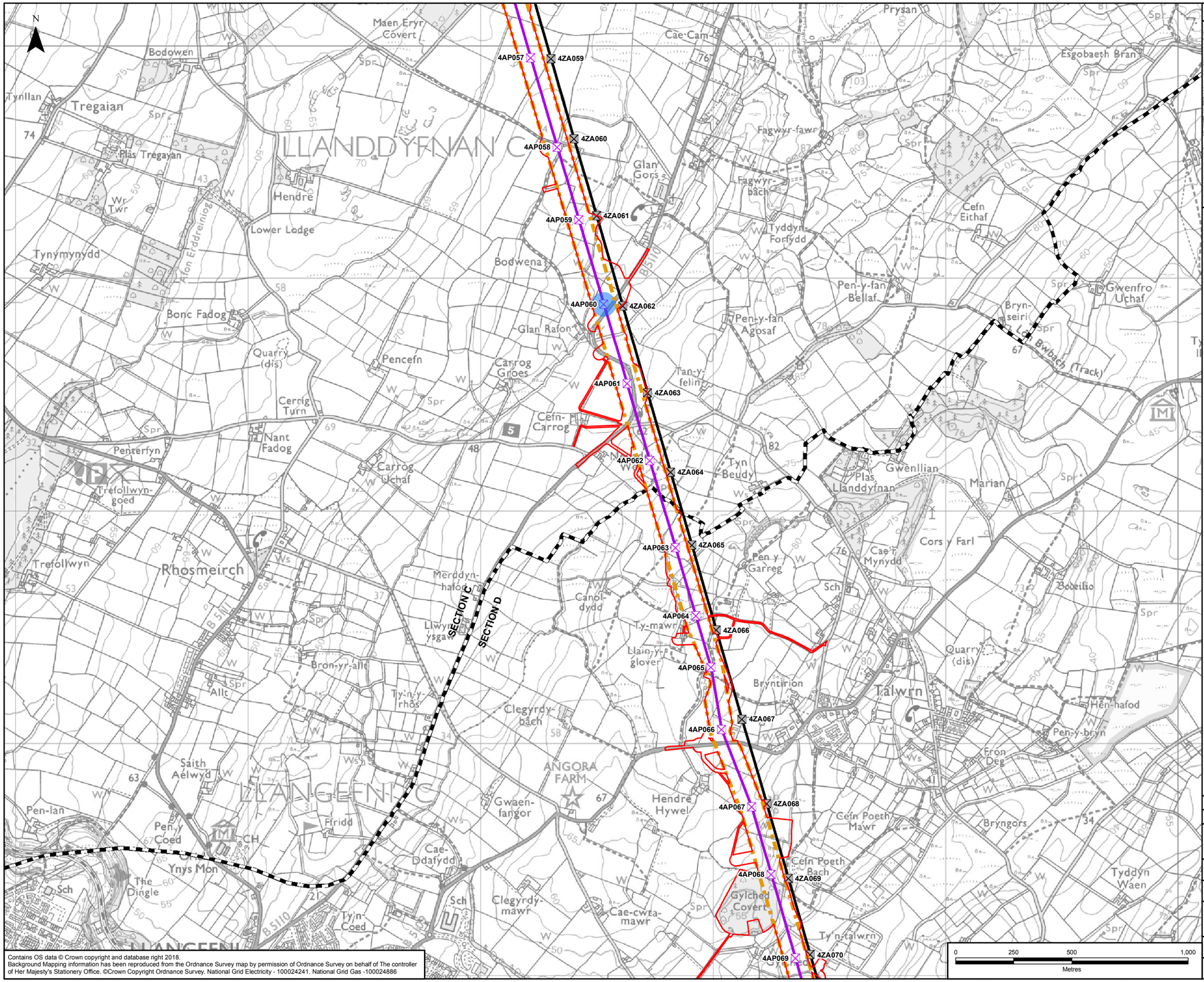
Document Number: 5.11.2.7

Document Title: FIGURE 1
APPROXIMATE BOREHOLE LOCATIONS
SECTION C & D OPTION A

Creator:	Date:	Checker:	Date:	Approver:	Date:
JB	25/07/2018	WH	25/07/2018	NS	25/07/2018

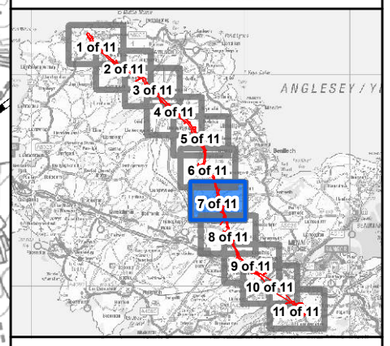
Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:15,000	A3	7 of 11 Option A	A

Document Path: F:\Proposal\3512\North Wales Connection - NG\GIS\02 Maps\Geotech_ES Figs_DCO 2018\GEO_APP_5-11-2-7_Fig1_BoreholeLocations_PS_20180725_JB.mxd



Contains OS data © Crown copyright and database right 2018.
Background Mapping information has been reproduced from the Ordnance Survey map by permission of Ordnance Survey on behalf of The controller of Her Majesty's Stationery Office. ©Crown Copyright Ordnance Survey. National Grid Electricity - 100024241. National Grid Gas -100024886

NWC ROUTE LEGEND



LEGEND

- ORDER LIMITS - OPTION B
- SECTION CUTLINES
- ABOVE GROUNDLIMITS OF DEVIATION (LOD) - OPTION B
- NEW GANTRY (FULL LINE TENSION)
- NEW GANTRY
- GANTRY TO BE REMOVED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON TO BE MODIFIED
- EXISTING LATTICE PYLON NOT AFFECTED
- NEW OVERHEAD LINE
- EXISTING OVERHEAD LINE TO BE REMOVED
- EXISTING OVERHEAD LINE TO BE MODIFIED
- EXISTING OVERHEAD LINE NOT AFFECTED
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING 132KV OUTDOOR SUBSTATION
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- APPROXIMATE BOREHOLE LOCATIONS

Rev	Date	Description	GIS	Chk	App
A	25/07/2018	ENVIRONMENTAL STATEMENT	JB	WH	NS

nationalgrid

Scheme: NORTH WALES CONNECTION PROJECT

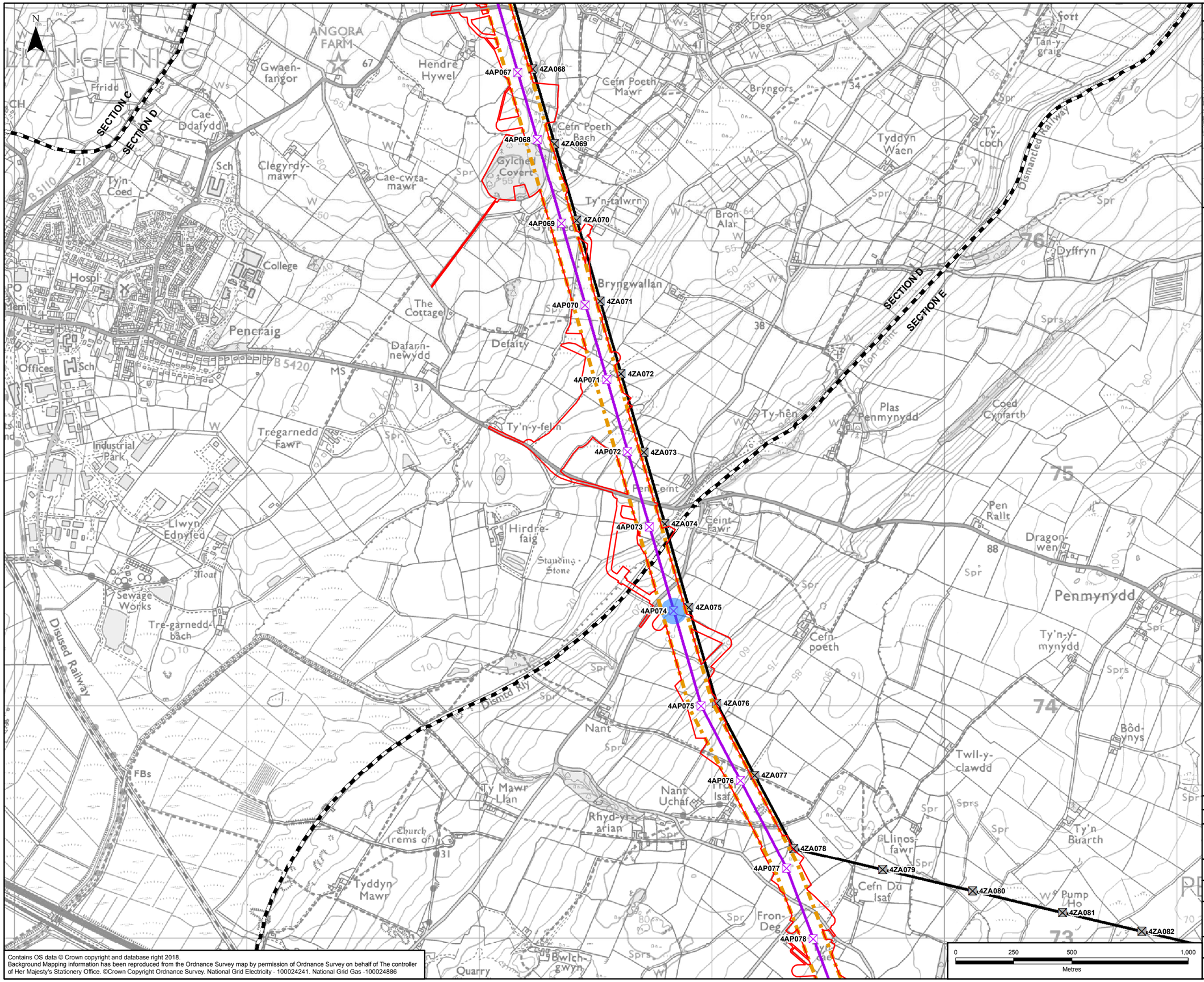
Document Number: 5.11.2.7

Document Title: FIGURE 1
APPROXIMATE BOREHOLE LOCATIONS
SECTION C & D OPTION B

Creator:	Date:	Checker:	Date:	Approver:	Date:
JB	25/07/2018	WH	25/07/2018	NS	25/07/2018

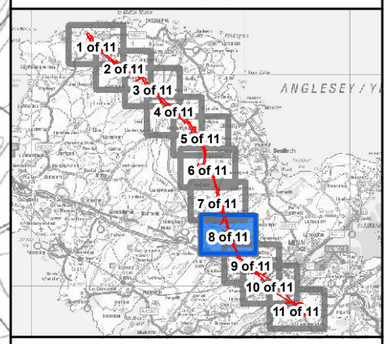
Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:15,000	A3	7 of 11 Option B	A

Document Path: F:\Proposal\3512\North Wales Connection - NG\GIS\02 Maps\Geotech_ES Figs_DCO 2018\GEO_APP_5-11-2-7_Fig1_BoreholeLocations_PS_20180725_JB.mxd



Contains OS data © Crown copyright and database right 2018.
Background Mapping information has been reproduced from the Ordnance Survey map by permission of Ordnance Survey on behalf of The controller of Her Majesty's Stationery Office. ©Crown Copyright Ordnance Survey. National Grid Electricity - 100024241. National Grid Gas -100024886

NWC ROUTE LEGEND



LEGEND

- ORDER LIMITS - OPTION A
- SECTION CUTLINES
- ABOVE GROUND LIMITS OF DEVIATION (LOD) - OPTION A
- NEW GANTRY (FULL LINE TENSION)
- NEW GANTRY
- GANTRY TO BE REMOVED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON TO BE MODIFIED
- EXISTING LATTICE PYLON NOT AFFECTED
- NEW OVERHEAD LINE
- EXISTING OVERHEAD LINE TO BE REMOVED
- EXISTING OVERHEAD LINE TO BE MODIFIED
- EXISTING OVERHEAD LINE NOT AFFECTED
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING 132KV OUTDOOR SUBSTATION
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- APPROXIMATE BOREHOLE LOCATIONS

Rev	Date	Description	GIS	Chk	App
A	25/07/2018	ENVIRONMENTAL STATEMENT	JB	WH	NS

nationalgrid

Scheme: NORTH WALES CONNECTION PROJECT

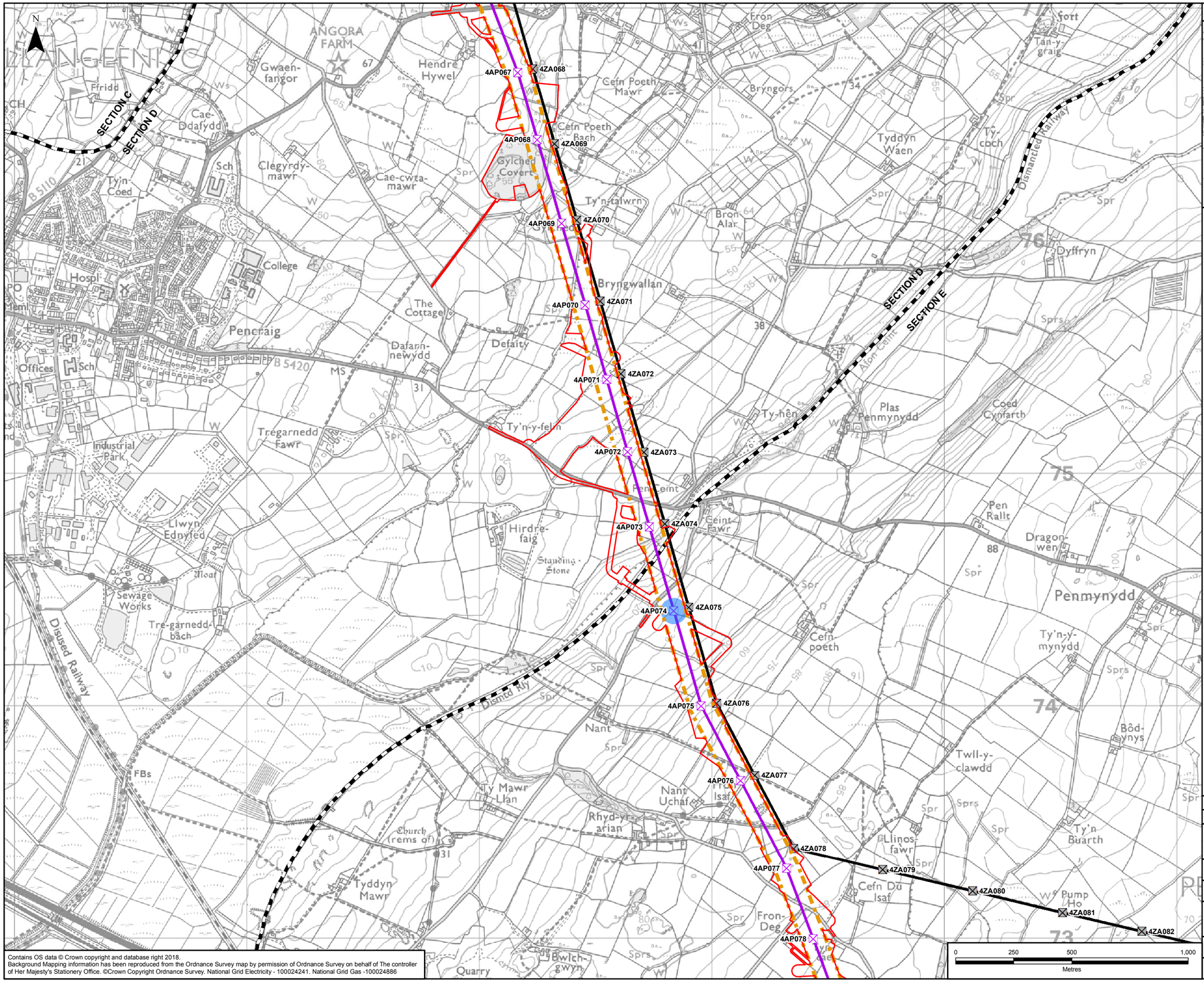
Document Number: 5.11.2.7

Document Title: FIGURE 1
APPROXIMATE BOREHOLE LOCATIONS
SECTION D & E OPTION A

Creator:	Date:	Checker:	Date:	Approver:	Date:
JB	25/07/2018	WH	25/07/2018	NS	25/07/2018

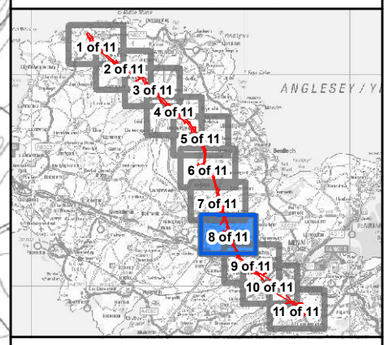
Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:15,000	A3	8 of 11 Option A	A

Document Path: F:\Proposal\3512\North Wales Connection - NG\GIS\02 Maps\Geotech_ES Figs_DCO 2018\GEO_APP_5-11-2-7_Fig1_BoreholeLocations_PS_20180725_JB.mxd



Contains OS data © Crown copyright and database right 2018.
Background Mapping information has been reproduced from the Ordnance Survey map by permission of Ordnance Survey on behalf of The controller of Her Majesty's Stationery Office. ©Crown Copyright Ordnance Survey. National Grid Electricity - 100024241. National Grid Gas -100024886

NWC ROUTE LEGEND



LEGEND

- ORDER LIMITS - OPTION B
- SECTION CUTLINES
- ABOVE GROUNDLIMITS OF DEVIATION (LOD) - OPTION B
- NEW GANTRY (FULL LINE TENSION)
- NEW GANTRY
- GANTRY TO BE REMOVED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON TO BE MODIFIED
- EXISTING LATTICE PYLON NOT AFFECTED
- NEW OVERHEAD LINE
- EXISTING OVERHEAD LINE TO BE REMOVED
- EXISTING OVERHEAD LINE TO BE MODIFIED
- EXISTING OVERHEAD LINE NOT AFFECTED
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING 132KV OUTDOOR SUBSTATION
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- APPROXIMATE BOREHOLE LOCATIONS

Rev	Date	Description	GIS	Chk	App
A	25/07/2018	ENVIRONMENTAL STATEMENT	JB	WH	NS

nationalgrid

Scheme: NORTH WALES CONNECTION PROJECT

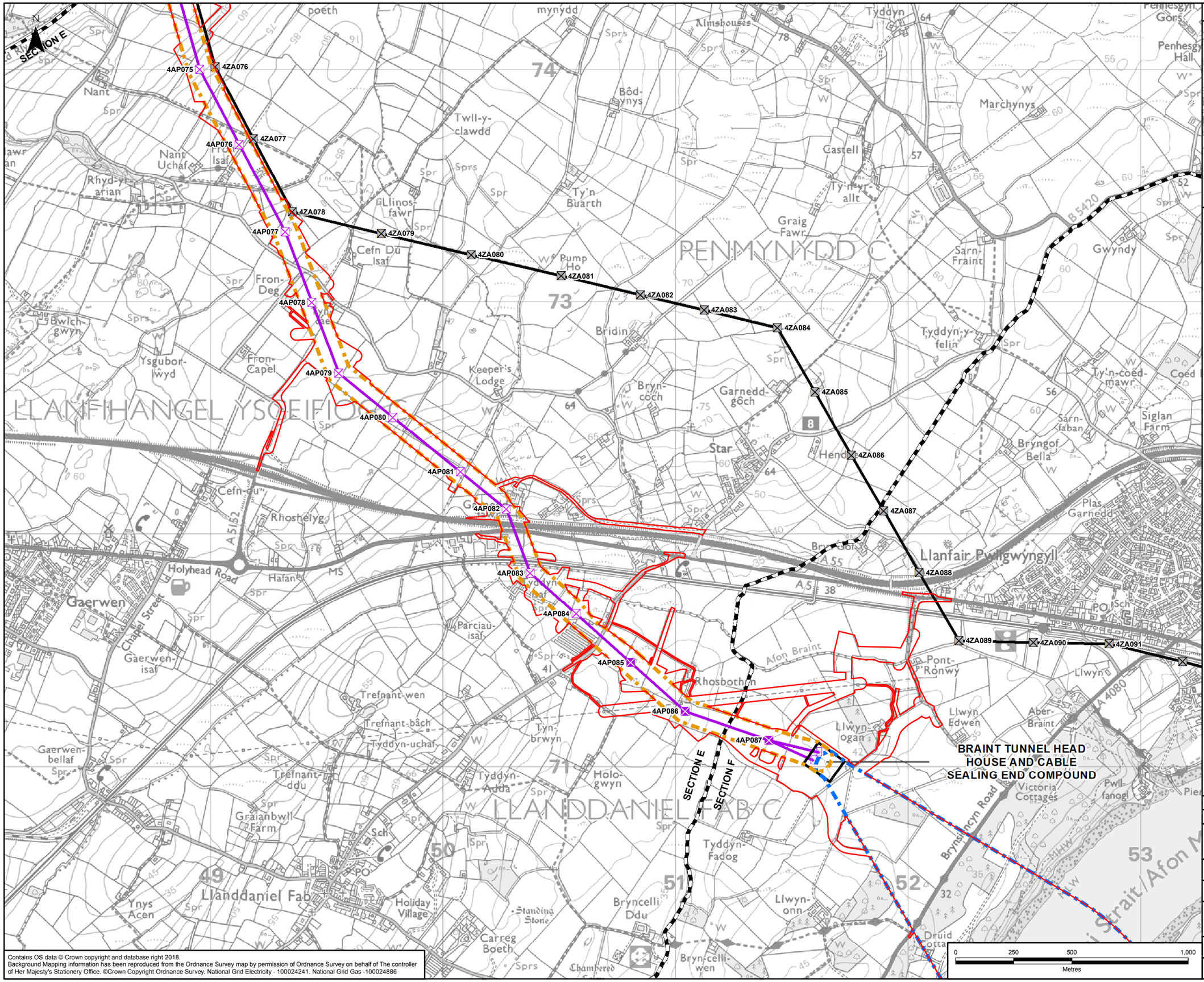
Document Number: 5.11.2.7

Document Title: FIGURE 1 APPROXIMATE BOREHOLE LOCATIONS SECTION D & E OPTION B

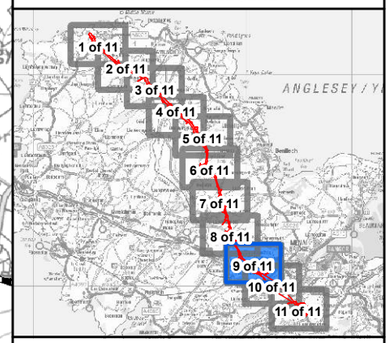
Creator:	Date:	Checker:	Date:	Approver:	Date:
JB	25/07/2018	WH	25/07/2018	NS	25/07/2018

Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:15,000	A3	8 of 11 Option B	A

Document Path: F:\Proposal\3512\North Wales Connection - NG\GIS\02 Maps\Geotech_ES Figs_DCO 2018\GEO_APP_5-11-2-7_Fig1_BoreholeLocations_PS_20180725_JB.mxd



NWC ROUTE LEGEND



LEGEND

- ORDER LIMITS
- SECTION CUTLINES
- ABOVE GROUND LIMITS OF DEVIATION (LOD)
- BELOW GROUND LOD
- NEW GANTRY (FULL LINE TENSION)
- NEW GANTRY
- GANTRY TO BE REMOVED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON TO BE MODIFIED
- EXISTING LATTICE PYLON NOT AFFECTED
- NEW OVERHEAD LINE
- EXISTING OVERHEAD LINE TO BE REMOVED
- EXISTING OVERHEAD LINE TO BE MODIFIED
- EXISTING OVERHEAD LINE NOT AFFECTED
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING 132KV OUTDOOR SUBSTATION
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- APPROXIMATE BOREHOLE LOCATIONS

Rev	Date	Description	GIS	Chk	App
A	25/07/2018	ENVIRONMENTAL STATEMENT	JB	WH	NS

nationalgrid

Scheme: NORTH WALES CONNECTION PROJECT

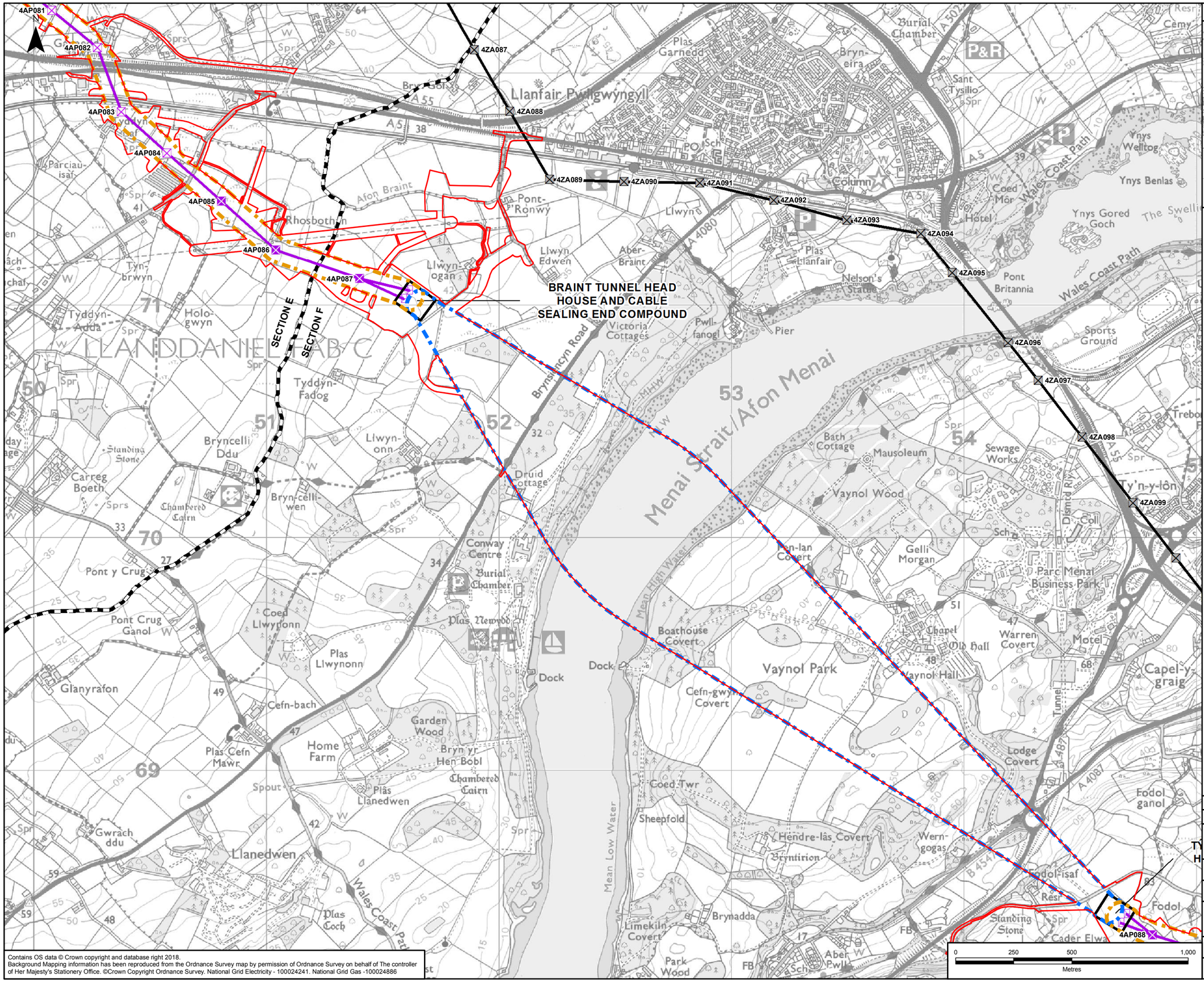
Document Number: 5.11.2.7

Document Title: FIGURE 1 APPROXIMATE BOREHOLE LOCATIONS SECTION E

Creator:	Date:	Checker:	Date:	Approver:	Date:
JB	25/07/2018	WH	25/07/2018	NS	25/07/2018

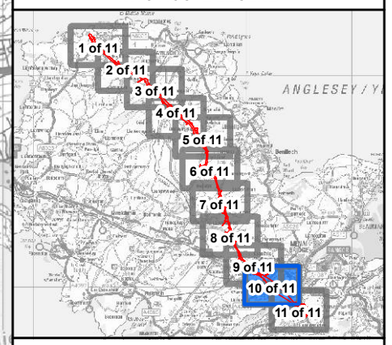
Document Type:	Scale:	Format:	Sheets:	Rev.
FIGURE	1:15,000	A3	9 of 11	A

Document Path: F:\Proposal\3512\North Wales Connection - NG\GIS\02 Maps\Geotech_ES Figs_DCO 2018\GEO_APP_5-11-2-7_Fig1_BoreholeLocations_PS_20180725_JB.mxd



Contains OS data © Crown copyright and database right 2018.
Background Mapping information has been reproduced from the Ordnance Survey map by permission of Ordnance Survey on behalf of The controller of Her Majesty's Stationery Office. ©Crown Copyright Ordnance Survey. National Grid Electricity - 100024241. National Grid Gas -100024886

NWC ROUTE LEGEND



LEGEND

- ORDER LIMITS
- SECTION CUTLINES
- ABOVE GROUND LIMITS OF DEVIATION (LOD)
- BELOW GROUND LOD
- NEW GANTRY (FULL LINE TENSION)
- NEW GANTRY
- GANTRY TO BE REMOVED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON TO BE MODIFIED
- EXISTING LATTICE PYLON NOT AFFECTED
- NEW OVERHEAD LINE
- EXISTING OVERHEAD LINE TO BE REMOVED
- EXISTING OVERHEAD LINE TO BE MODIFIED
- EXISTING OVERHEAD LINE NOT AFFECTED
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING 132KV OUTDOOR SUBSTATION
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- APPROXIMATE BOREHOLE LOCATIONS

Rev	Date	Description	GIS	Chk	App
A	25/07/2018	ENVIRONMENTAL STATEMENT	JB	WH	NS

nationalgrid

Scheme: NORTH WALES CONNECTION PROJECT

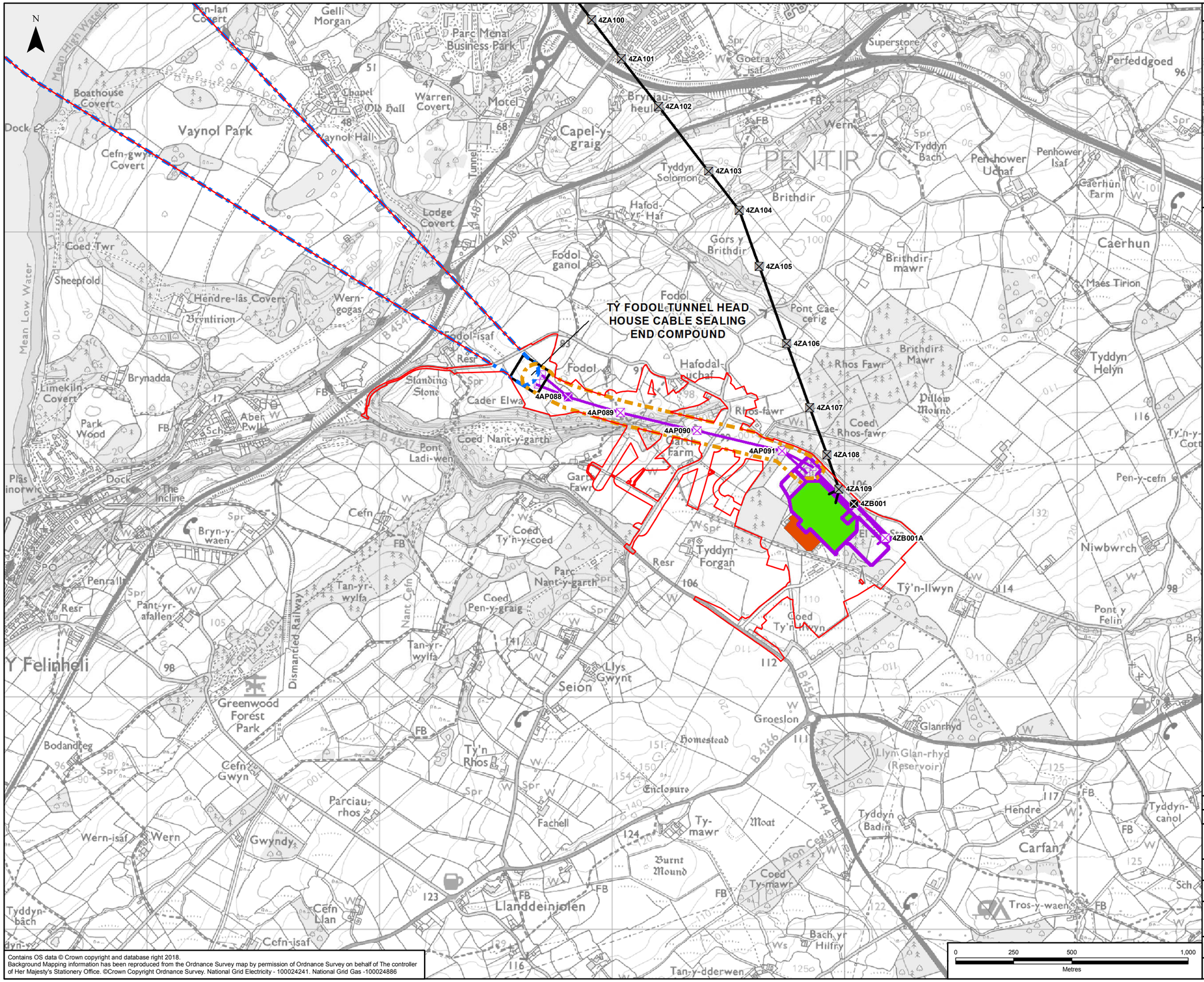
Document Number: 5.11.2.7

Document Title: FIGURE 1 APPROXIMATE BOREHOLE LOCATIONS SECTION F

Creator:	Date:	Checker:	Date:	Approver:	Date:
JB	25/07/2018	WH	25/07/2018	NS	25/07/2018

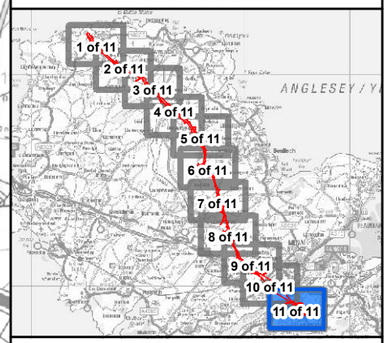
Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:15,000	A3	10 of 11	A

Document Path: F:\Proposal\3512\North Wales Connection - NG\GIS\02 Maps\Geotech_ES Figs_DCO 2018\GEO_APP_5-11-2-7_Fig1_BoreholeLocations_PS_20180725_JB.mxd



Contains OS data © Crown copyright and database right 2018.
Background Mapping information has been reproduced from the Ordnance Survey map by permission of Ordnance Survey on behalf of The controller of Her Majesty's Stationery Office. ©Crown Copyright Ordnance Survey. National Grid Electricity - 100024241. National Grid Gas -100024886

NWC ROUTE LEGEND



LEGEND

- ORDER LIMITS
- SECTION CUTLINES
- ABOVE GROUND LIMITS OF DEVIATION (LOD)
- BELOW GROUND LOD
- NEW GANTRY (FULL LINE TENSION)
- NEW GANTRY
- GANTRY TO BE REMOVED
- NEW LATTICE PYLON
- NEW LOW HEIGHT LATTICE PYLON
- EXISTING LATTICE PYLON TO BE REMOVED
- EXISTING LATTICE PYLON TO BE MODIFIED
- EXISTING LATTICE PYLON NOT AFFECTED
- NEW OVERHEAD LINE
- EXISTING OVERHEAD LINE TO BE REMOVED
- EXISTING OVERHEAD LINE TO BE MODIFIED
- EXISTING OVERHEAD LINE NOT AFFECTED
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED
- PROPOSED SUBSTATION EXTENSION FOOTPRINT
- EXISTING 132KV OUTDOOR SUBSTATION
- EXISTING NATIONAL GRID 400KV SUBSTATION FOOTPRINT
- APPROXIMATE BOREHOLE LOCATIONS

Rev	Date	Description	GIS	Chk	App
A	25/07/2018	ENVIRONMENTAL STATEMENT	JB	WH	NS

nationalgrid

Scheme: NORTH WALES CONNECTION PROJECT

Document Number: 5.11.2.7

Document Title: FIGURE 1 APPROXIMATE BOREHOLE LOCATIONS SECTION F

Creator:	Date:	Checker:	Date:	Approver:	Date:
JB	25/07/2018	WH	25/07/2018	NS	25/07/2018

Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:15,000	A3	11 of 11	A

Document Path: F:\Proposal\3512\North Wales Connection - NG\GIS\02 Maps\Geotech_ES Figs_DCO 2018\GEO_APP_5-11-2-7_Fig1_BoreholeLocations_PS_20180725_JB.mxd

Geotechnical Engineering Limited

KEY TO EXPLORATORY HOLE LOGS

Sample type

D	Small disturbed	U	Undisturbed	X/L	Dynamic	D*/ES	Environmental - soil	Cs	Core subsample (prepared)
B	Bulk disturbed	UT	Undisturbed thin wall	C	Core	EW	Environmental - water	Xs/Ls	Dynamic subsample (prepared)
LB	Large bulk disturbed	P	Piston	W	Water				

Test type

S SPT - Split spoon sampler followed by uncorrected SPT 'N' Value
C SPT - Solid cone followed by uncorrected SPT 'N' Value
(*250 - Where full test drive not completed, linearly extrapolated 'N' value reported, ** - Denotes no effective penetration)
H Hand vane - direct reading in kPa - not corrected for BS1377 (1990). Re* denotes refusal
M Mackintosh probe - number of blows to achieve 100mm penetration
PP Pocket penetrometer - direct reading in kg/sq.cm
Vo Headspace vapour reading, uncorrected peak values in ppm, using a PID (calibrated with Isobutylene, using a 10.6eV bulb)

Sample/core range/l_f

Dynamic sample

Undisturbed sample - open drive including thin wall. Symbol length reflects recovery

x x = Total Core Recovery (TCR) as percentage of core run

y y = Solid Core Recovery (SCR) as percentage of core run. Assessment of core is based on full diameter.

z z = Rock Quality Designation (RQD). The amount of solid core greater than 100mm expressed as percentage of core run.

Where SPT has been carried out at beginning of core run, disturbed section of core excluded from SCR and RQD assessment.

l_f - fracture spacing - the modal fracture spacing (mm) over the indicated length of core. Where spacing varies significantly, the minimum, mode and maximum values are given. NI = non-intact core NA = not applicable

Instrumentation

Porous tip | Perforated standpipe | Granular response zone | Bentonite seal | Cement/ bentonite grout | Soil Backfill | Concrete

Stratum boundaries

Estimated boundary

Grading boundary

Logging

The logging of soils and rocks has been carried out in general accordance with BS 5930:2015.

Chalk is logged in general accordance with Lord et al (2002) CIRIA C574. Where possible, dynamic samples in chalk have been logged in accordance with CIRIA C574; descriptions and gradings (if presented) should be treated with caution given the potential for sample disturbance.

For rocks the term fracture has been used to identify a mechanical break within the core. Where possible incipient and drilling induced fractures have been excluded from the assessment of fracture state. Where doubt exists, a note has been made in the descriptions. All fractures are considered to be continuous unless otherwise reported.

Made Ground is readily identifiable when, within the material make up, man made constituents are evident. Where Made Ground appears to be reworked natural material the differentiation between in situ natural deposits and Made Ground is much more difficult to ascertain. The interpretation of Made Ground within the logs should therefore be treated with caution.

The descriptors "topsoil" and "tarmacadam" are used as generic terms and do not imply conformation to any particular standard or composition.

Rootlets are defined as being less than 2mm in diameter, roots are defined as in excess of 2mm diameter.

General Comments

The process of drilling and sampling will inevitably lead to disturbance, mixing or loss of material in some soil and rocks.

Indicated water levels are those recorded during the process of drilling or excavating exploratory holes and may not represent standing water levels.

All depths are measured along the axis of the borehole and are related to ground level at the point of entry. All inclinations are measured normal to the axis of the core.

Geotechnical Engineering Limited

BOREHOLE LOG

4AP020

CLIENT	LSTC		
SITE	WYLFA - PENTIR	Sheet	1 of 2
Start Date	17 October 2017	Scale	1 : 50
End Date	18 October 2017	Depth	9.20 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
17/10/17 0700hrs	1B	0.20 - 0.40						Grass over soft light orangish brown slightly sandy CLAY with frequent rootlets.			
		0.40 - 0.81	Nil	C*58					0.40		
	2L	0.40 - 1.00						Very dense yellowish brown sandy angular and subangular fine and medium mudstone GRAVEL.	0.70		
		1.00 - 1.26	Nil	C*94				Stiff light orangish brown sandy CLAY.	1.00		
	3C	1.00 - 2.00			34 0 0	NI 70 130		Strong narrowly foliated light bluish green and greyish white GNEISS. Fractures are subhorizontal and vertical closely spaced intersecting planar smooth with brown discolouration.			
		2.00 - 2.20	1.00	C*130							
	4C	2.00 - 2.80			83 29 0				2.80		
	5C	2.80 - 4.00			24 0 0	NI		Strong narrowly foliated light bluish green and greyish white GNEISS. Drilling disturbed recovered non-intact.			
		4.00 - 4.24	1.00	C*97					4.10		
	6C	4.00 - 4.80			34 0 0			Strong light grey SILTSTONE. Frequent quartz veins (up to 5mm thickness). Drilling disturbed recovered non-intact.	4.80		
	7C	4.80 - 6.00	1.00		100 53 11	NI 80 130		Strong light grey SILTSTONE. Frequent quartz veins (up to 5mm thickness). Fractures are horizontal to 20°closely spaced planar smooth. 5.60 - 5.70m: Vertical fractures.	5.90		
	8C	6.00 - 6.80	1.00		100 50 20	NI		Strongly narrowly foliated light bluish green and greyish white GNEISS. Fractures are subhorizontal and vertical closely and medium spaced intersecting planar smooth with brown discolouration. 6.00 - 6.35m: Drilling disturbed recovered non-intact. 6.70 - 7.50m: Drilling disturbed recovered non-intact.			
17/10/17 1900hrs 1.10m						NI 80 220					
						NI					
18/10/17 0700hrs 1.25m	9C	6.80 - 7.00	1.00		50 0						
	10C	7.00 - 8.00	1.00		0 100 18 12						
						NI 80 100			7.50		
								Strong light grey SILTSTONE. Frequent quartz veins (up to 5mm thickness). Fractures are horizontal to 20°closely spaced planar smooth.			
								Continued Next Page	{8.00}		

EQUIPMENT: Geotechnical P60 Slope Climbing rig.

METHOD: Hand dug inspection pit 0.00-0.40m. Dynamic sampled (113mm) 0.40-1.00m. Waterflush rotary core drilled (116mm) 1.00-9.20m.

CASING: 128mm diam to 1.00m.

BACKFILL: On completion, hole backfilled with bentonite pellets 9.20-8.50m. A slotted standpipe (50mm) was installed to 8.50m, granular response zone 8.50-1.00m, bentonite seal 1.00-0.30m, concrete and raised helmet cover 0.30-0.00m.

REMARKS: Flush returns reduced between 1.00 to 4.80m (approx. 70-80% returned), 4.80 to 6.80m (approx. 50% returned), 6.80-8.00m (approx. 80% returned) and 8.00-9.20m (approx. 40% returned).

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (m)	remarks	CONTRACT	CHECKED
				Groundwater not encountered prior to use of water flush.	33424	NP

Geotechnical Engineering Ltd, Tel. 01452 527743 33424 MASTER.GPJ TRIALJH.GPJ GEOTECH2.GLB 23/01/2018 16:26:58 DJ CT

Geotechnical Engineering Limited

BOREHOLE LOG

4AP020

CLIENT	LSTC		
SITE	WYLFA - PENTIR	Sheet	2 of 2
Start Date	17 October 2017	Scale	1 : 50
End Date	18 October 2017	Depth	9.20 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
18/10/17 1830hrs 1.10m	11C	8.00 - 9.20	1.00		100 40 10				9.20		
		9.20 - 9.33	1.00	C*231				Borehole completed at 9.20m.	{18.00}		

water strike (m)	casing (m)	rose to (m)	time to rise (m)	remarks	CONTRACT	CHECKED
				Groundwater not encountered prior to use of water flush.	33424	NP

Geotechnical Engineering Ltd. Tel. 01452 527743 33424 MASTER.GPJ TRIALJH.GPJ GEOTECH2.GLB 23/01/2018 16:26:58 DJ CT

Geotechnical Engineering Limited

BOREHOLE LOG

4AP033

CLIENT	LSTC		
SITE	WYLFA - PENTIR	Sheet	1 of 2
Start Date	19 October 2017	Scale	1 : 50
End Date	27 October 2017	Depth	15.60 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
19/10/17 0700hrs	1B	0.30 - 0.50						Grass over firm fissured brown mottled grey silty CLAY. Frequent decomposed organic material (up to 40mm). Faint organic odour.			
	2B	0.70 - 0.90									
	3B	1.00 - 1.20									
19/10/17 1830hrs Dry	4D	1.20 - 1.65	Nil	S 11							
20/10/17 0700hrs 0.40m	5L	1.20 - 2.00									
	6D	2.00 - 2.45	2.00	S 8							
	7L	2.00 - 3.00							2.50		
								Firm dark grey mottled dark grey gravelly clayey SILT. Gravel is subangular and subrounded fine and medium mudstone. Frequent decomposed organic material (<10mm). 2.80 - 2.90m: Dark grey sandy clayey angular to rounded fine and medium mudstone gravel. 2.90 - 3.00m: Grey clayey fine to coarse sand.			
	8D	3.00 - 3.45	2.00	S 12					3.00		
	9L	3.00 - 4.00									
								Firm fissured dark grey and brown slightly gravelly silty CLAY. Gravel is subangular and subrounded fine and medium mudstone. 3.50 - 3.55m: Lens of sandy angular and subangular fine mudstone gravel.			
	10D	4.00 - 4.45	4.00	S 14							
	11L	4.00 - 5.00							4.20		
								Dark grey gravelly SILT. Gravel is angular to subrounded fine to coarse mudstone and quartzite.			
	12D	5.00 - 5.45	4.00	S 28					5.00		
	13L	5.00 - 6.50						Medium dense dark grey and light brown silty sandy angular to subrounded fine to coarse mudstone, conglomerate and sandstone GRAVEL. 6.00 - 6.10m: Lens of brown angular coarse sandstone gravel.			
	14D	6.50 - 6.95	4.00	S 25					6.50		
20/10/17 1945hrs 0.70m	15L	6.50 - 7.00						Limited recovery. Recovered as light grey subangular to rounded coarse sandstone and mudstone GRAVEL with a high subrounded sandstone cobble content.	7.00		
23/10/17 0500hrs 0.70m	16C	7.00 - 8.00	4.00		60 53 53	80 215 350		Extremely strong dark grey MICRODIORITE. Fractures are closely and medium spaced subhorizontal stepped rough. 7.30 - 7.31m: Subhorizontal quartz vein. 7.53 - 7.60m: Stiff grey gravelly clay. Gravel is angular to subrounded coarse crystalline.	8.00 {8.00}		

Continued Next Page

EQUIPMENT: Geotechnical P60 Slope Climbing rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (113mm) 1.20-7.00m and 8.00-9.00m. Waterflush rotary core drilled (116mm) 7.00-8.00m and 9.00-15.60m.

CASING: 140mm diam to 10.50m.

BACKFILL: On 30/10/2017, hole backfilled with bentonite pellets 15.60-5.00m. A slotted standpipe (50mm) was installed to 5.00m, granular response zone 5.00-1.00m, bentonite seal 1.00-0.30m, concrete and raised helmet cover 0.30-0.00m.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (m)	remarks	CONTRACT	CHECKED
				Groundwater not encountered prior to use of water flush.	33424	NP

Geotechnical Engineering Ltd, Tel. 01452 527743 33424 MASTER.GPJ TRIALJH.GPJ GEOTECH2.GLB 23/01/2018 16:27:00 KE CT

Geotechnical Engineering Limited

BOREHOLE LOG

4AP033

CLIENT	LSTC		
SITE	WYLFA - PENTIR	Sheet	2 of 2
Start Date	19 October 2017	Scale	1 : 50
End Date	27 October 2017	Depth	15.60 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
	17L	8.00 - 9.00	4.00					7.60 - 8.00m: Assumed zone of no recovery.	8.30		
								Dark grey silty angular and subangular fine and medium mudstone and quartzite GRAVEL.			
								Stiff fissured dark grey slightly gravelly silty CLAY. Gravel is angular to rounded fine and medium mudstone and crystalline.	8.80		
	18D 19C	9.00 - 9.44 9.00 - 10.50	4.00	S*51	30 23 13	NI			9.00		
								Very stiff friable brown clayey SILT.	9.44		
						NI 40 200		Very stiff dark grey and brown slightly sandy gravelly CLAY. Gravel is angular and subangular fine to coarse mudstone.			
23/10/17 2200hrs 2.90m	20D	10.50 - 10.69	10.50	S*300				9.44 - 10.50m: Limited recovery. Very weak and weak dark grey MUDSTONE. Fractures are extremely closely and very closely spaced locally closely spaced and non intact horizontal to subvertical planar smooth with sandy clay infill (up to 5mm) on fracture surface.			
26/10/17 0800hrs 10.50m	21C	10.50 - 12.00	10.50		87 15 0	NI NI 10					
	22C	12.00 - 13.50	10.50		93 49 0						
						10 30 50					
26/10/17 2000hrs 1.10m	23C	13.50 - 14.10	10.50		100 67 0						
		14.10 - 14.20	10.50	C*500				13.95 - 13.96m: Subhorizontal calcite vein.			
27/10/17 0700hrs 0.45m	24C	14.10 - 15.60			67 46 0						
								14.60 - 14.61m: Subhorizontal calcite vein.			
						20 40 60		14.90 - 14.95m: Non intact.			
27/10/17 1900hrs 2.55m		15.60 - 14.73	10.50	C*375					15.60		
								Borehole completed at 15.60m.			
									{18.00}		

water strike (m)	casing (m)	rose to (m)	time to rise (m)	remarks	CONTRACT	CHECKED
				Groundwater not encountered prior to use of water flush.	33424	NP

Geotechnical Engineering Ltd, Tel. 01452 527743 33424 MASTER.GPJ TRIALJH.GPJ GEOTECH2.GLB 23/01/2018 16:27:00 KE CT

Geotechnical Engineering Limited

BOREHOLE LOG

4AP060

CLIENT	LSTC		
SITE	WYLFA - PENTIR	Sheet	1 of 1
Start Date	10 October 2017	Scale	1 : 50
End Date	12 October 2017	Depth	7.70 m

progress date/time water depth	sample no & type	depth (m) from	to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
10/10/17 1630hrs									Grass over soft light brown sandy CLAY with frequent rootlets.			
	1B	0.30	0.50									
	2B	0.50	0.70									
	3B	1.00	1.20									
	4D	1.20	1.65	Nil	S 35							
	5L	1.20	2.00						1.20m: Subrounded crystalline cobble.	1.30		
10/10/17 1930hrs Dry									Very stiff light brown slightly sandy slightly gravelly CLAY. Gravel is angular fine and medium crystalline.			
	6D	2.00	2.43	Nil	S*54				1.90 - 2.00m: Gravelly.			
11/10/17 0700hrs Dry	7L	2.00	3.00									
	8D	3.00	3.03	3.00	S**					3.00		
	9C	3.00	3.50			80 60 20	30 50 120		Strong light grey matrix supported CONGLOMERATE comprising 70-80% subrounded and subangular fine gravel sized matrix of mixed lithology. Fractures are horizontal to 10° very closely and closely undulating rough with a little orangish brown clay infill.	3.50		
	10C	3.50	4.00	3.00		84 52 26	50 80 180					
		4.00	4.04	3.00	C*500				Strong light grey matrix supported CONGLOMERATE comprising subrounded and subangular fine gravel sized matrix of mixed lithology. Fractures are horizontal to 20° closely undulating rough with a little orangish brown clay infill. 3.60 - 3.70m: 70° planar smooth fracture.			
	11C	4.00	4.50			92 92 52						
	12C	4.50	4.54	3.00	C*600	80 80 11						
		4.50	6.00							5.70		
11/10/17 1800hrs 1.30m	13C	6.00	6.50	3.00		100 54 0			Strong light grey clast supported CONGLOMERATE comprising angular coarse gravel sized clasts of mixed lithology and 10-20% subrounded and subangular fine gravel sized matrix of mixed lithology. Fractures are horizontal to 10° closely undulating rough with a little orangish brown clay infill.			
12/10/17 0815hrs 2.30m	14C	6.50	7.50	3.00		100 42 28	NI 70 190					
12/10/17 1400hrs 2.30m		7.50	7.61	3.00	C*300					7.50		
	15C	7.50	7.70			100 100	100		Strong narrowly foliated light grey GNEISS. Fractures are horizontal to 10° closely spaced undulating rough.	7.70		
		7.70	7.78	3.00	C*500	100						
									Borehole completed at 7.70m.	{8.00}		

EQUIPMENT: Geotechnical P60 Slope Climbing rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (128mm) 1.20-2.00m and (113mm) 2.00-3.00m. Waterflush rotary core drilled (116mm) 3.00-7.70m.

CASING: 140mm diam to 3.00m.

BACKFILL: On completion, hole backfilled with bentonite pellets 7.60-5.00m. A slotted standpipe (50mm) was installed to 5.00m, granular response zone 5.00-1.00m, bentonite seal 1.00-0.30m, concrete and raised helmet cover 0.30-0.00m.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (min)	remarks	CONTRACT	CHECKED
				Groundwater not encountered prior to use of water flush.	33424	NP

Geotechnical Engineering Ltd, Tel. 01452 527743 33424 MASTER.GPJ TRIALJH.GPJ GEOTECH2.GLB 23/01/2018 16:27:01 DJ CT

Geotechnical Engineering Limited

BOREHOLE LOG

4AP074

CLIENT	LSTC		
SITE	WYLFA - PENTIR	Sheet	1 of 4
Start Date	1 November 2017	Scale	1 : 50
End Date	7 November 2017	Depth	30.00 m

progress date/time water depth	sample no & type	depth (m) from	to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
01/11/17 0930hrs									Grass over very soft brown silty CLAY.			
									Very soft brown locally grey CLAY.	0.50		
	1D	1.20	1.65	Nil	S <1				1.10m: Reddish brown subrounded sandstone cobble.			
	2L	1.20	2.00									
	3D	2.00	2.45	Nil	S 11					2.10		
	4L	2.00	2.50						Brown slightly sandy slightly gravelly SILT. Gravel is angular fine sandstone.	2.30		
	5D	2.50	2.64	2.50	S*250							
	6C	2.50	3.50			100 46 39	NI 140 190		Thinly laminated friable dark grey SILT.	2.70		
									Weak to medium strong grey LIMESTONE with frequent horizontal and vertical calcite veins (up to 2mm thickness). Fractures are horizontal closely spaced planar rough locally infilled (up to 3mm) with reddish brown fine sand.			
		3.50	3.56	2.50	C*429					3.50		
	7C	3.50	4.50			97 29 15	NI 80 150		Medium strong grey locally stained reddish brown LIMESTONE. Fractures are subhorizontal and 30° closely spaced planar smooth.			
										4.50		
	8C	4.50	5.50	2.50		100 8 0	NI 20 25		Weak dark grey and black MUDSTONE. Fractures are horizontal very closely spaced planar smooth.	4.90		
							NI		Extremely weak highly fractured light grey MUDSTONE. Non-intact.			
	9D	5.30										
	10D	5.50	5.82	2.50	S*79							
	11C	5.50	7.00			83 54 45				5.85		
							80 110 370		Weak grey fine SANDSTONE with rare 70° quartz veins (up to 2mm thick). Fractures are horizontal closely and medium spaced planar rough.			
										6.60		
							90 200 390		Weak to medium strong grey LIMESTONE. Fractures are subhorizontal and subvertical closely and medium spaced planar smooth with reddish brown staining on fracture surface and infilled (up to 3mm) with grey clay.			
	12C	7.00	8.50	2.50		100 93 88						
										7.40		
							NI 220 350 700		Very grey MUDSTONE. Recovered non-intact.	7.55		
									Medium strong brown mottled light brown LIMESTONE with frequent subrounded (up to 10mm) vugs. Fractures			
									Continued Next Page	{8.00}		

EQUIPMENT: Geotechnical P60 Slope Climbing rig.

METHOD: Hand dug inspection pit 0.00-1.20m. Dynamic sampled (113mm) 1.20-2.50m. Rotary core drilled (116mm) using a polymer flush 2.50-30.00m.

CASING: 140mm diam to 2.50m.

BACKFILL: On 08/11/2017, borehole backfilled with bentonite pellets 30.00-12.00m. A slotted standpipe (50mm) was installed to 12.00m, granular response zone 12.00-1.00m, bentonite seal 1.00-0.30m, concrete and raised helmet cover 0.30-0.00m.

REMARKS: Flush returns reduced between 2.50 to 8.50m (approx. 70-80% returned), 8.50 to 13.00m (approx. 50-60% returned), 18.50 to 23.50m (approx. 30-40% returned), 23.50-28.00m (approx. 50-60% returned), and 28.00-30.00m (approx. 40-45% returned). Flush returns lost from 13.00 to 18.50m.

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

water strike (m)	casing (m)	rose to (m)	time to rise (m)	remarks	CONTRACT	CHECKED
				Groundwater not encountered prior to use of water flush.	33424	NP

Geotechnical Engineering Ltd, Tel. 01452 527743 33424 MASTER.GPJ TRIALJH.GPJ GEOTECH2.GLB 23/01/2018 16:27:03 NK/KE EL

Geotechnical Engineering Limited

BOREHOLE LOG

4AP074

CLIENT	LSTC		
SITE	WYLFA - PENTIR	Sheet	2 of 4
Start Date	1 November 2017	Scale	1 : 50
End Date	7 November 2017	Depth	30.00 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
01/11/17 1845hrs 2.00m								are subhorizontal medium and widely spaced planar rough.			
02/11/17 0750hrs 2.00m	13C	8.50 - 10.00	2.50		100 100 89	80 270 270		Medium strong reddish brown vuggy LIMESTONE with frequent subrounded (up to 10mm) vugs infilled with reddish brown fine sand . Fractures are subhorizontal medium spaced planar rough.	8.60		
						100 300 400		Medium strong light brown LIMESTONE with frequent subrounded (up to 10mm) vugs infilled with reddish brown fine sand. Fractures are subhorizontal closely and medium spaced planar rough.	9.20		
	14C	10.00 - 11.50	2.50		92 87 70						
						NI 300 340		Weak to medium strong grey and light brown fine SANDSTONE with frequent subvertical white calcite veins (up to 10mm thick). Fractures are subhorizontal and subvertical medium spaced planar rough. 10.70 - 10.80m: Non-intact.	10.50		
		11.50 - 11.56	2.50	C*750					11.50		
	15C	11.50 - 13.00			90 60 41	NI 200 300		Medium strong grey and light brown LIMESTONE with frequent white calcite veins (up to 5mm thick). Fractures are subhorizontal and subvertical mainly medium spaced planar rough.			
						150		Very weak thinly laminated black and grey MUDSTONE.	12.45		
						NI		Drilling disturbed recovered non intact as grey and brown clayey LIMESTONE gravel.	12.60		
	16C	13.00 - 14.50	2.50		100 63 54	NI 200 300		Weak to medium strong grey and light brown LIMESTONE with frequent vertical white calcite veins (up to 2mm thick). Fractures are subhorizontal and subvertical medium spaced planar rough. 13.70 - 13.90m: Non-intact.	13.00		
		14.50 - 14.57	2.50	C*429					14.50		
	17C	14.50 - 16.00			97 52 33	NI 30 90		Weak and medium strong grey LIMESTONE with frequent white veins (up to 5mm thick). Fractures are subhorizontal to 30° and subvertical very closely and closely spaced locally non intact intersecting stepped rough.	15.25		
						80 110 190		Weak to medium strong light grey fossiliferous LIMESTONE with frequent crinoidal moulds. Fractures are 20-50° closely spaced stepped rough.	15.80		
	18C	16.00 - 17.00	2.50		70 16 0	NI 40 60		Weak to medium strong grey LIMESTONE with frequent intersecting calcite veins (up to 6mm thick). Fractures are very closely and closely spaced locally non intact intersecting stepped rough with black staining on fracture surface.			
02/11/17 1815hrs 4.60m		17.00 - 17.07	2.50	C*333							
03/11/17 0900hrs 7.70m	19C	17.00 - 18.50			73 49 39	80 130 180		17.50 - 19.60m: Fracture infilled (2mm) with black sandy clay.			
								Continued Next Page	{18.00}		

water strike (m)	casing (m)	rose to (m)	time to rise (m)	remarks
				Groundwater not encountered prior to use of water flush.

AGS

CONTRACT	CHECKED
33424	NP

Geotechnical Engineering Ltd, Tel. 01452 527743 33424 MASTER.GPJ TRIALJH.GPJ GEOTECH2.GLB 23/01/2018 16:27:03 NK/KE EL

Geotechnical Engineering Limited

BOREHOLE LOG

4AP074

CLIENT	LSTC		
SITE	WYLFA - PENTIR	Sheet	3 of 4
Start Date	1 November 2017	Scale	1 : 50
End Date	7 November 2017	Depth	30.00 m

progress date/time water depth	sample no & type	depth (m) from to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
	20C	18.50 - 20.00	2.50		77 29 15	20 40 70		17.60 - 18.50m: Subvertical fracture infilled with light brown fine and medium sand (up to 2mm).	19.60		
03/11/17 1330hrs 7.35m	21C	20.00 - 20.04 20.00 - 20.50	2.50	C*600	60 16 0	60 70 160		Strong brown and stained orangish brown LIMESTONE with frequent (up to 10mm) vugs infilled with reddish brown fine sand. Fractures are very closely and closely spaced subhorizontal and vertical stepped rough with orange and black staining on fracture surface.	20.00		
06/11/17 0950hrs 9.40m	22C	20.50 - 22.00	2.50		81 77 74	NI 450 450		Medium strong grey LIMESTONE with frequent subvertical intersecting calcite veins (up to 6mm thick). Fractures are subhorizontal and subvertical very closely and closely spaced locally non intact intersecting stepped rough with black staining. 20.30 - 20.50m: Non intact. 20.50 - 21.00m: Fractures are subhorizontal medium spaced undulating rough.	21.00		
	23C	22.00 - 23.50	2.50		100 81 73	60 200 450		Very weak to weak grey SILTSTONE. Fractures are subhorizontal to 30° closely and medium spaced subhorizontal to 30° undulating rough with rare light brown staining. 21.60 - 22.00m: Vertical stepped rough fracture. 22.10 - 22.50m: Intersecting subvertical and 70° white veins (up to 5mm thick).	22.95		
	24C	23.50 - 23.56 23.50 - 25.00	2.50	C*429	81 81 81	NI 60 70 180		Extremely weak dark grey MUDSTONE locally tending to very stiff clay. Fractures are subhorizontal extremely closely spaced intersecting planar smooth with dark grey clay infill (up to 10mm).	23.25		
						200 390 620		Very weak to weak greenish grey SILTSTONE. Fractures are subhorizontal closely and medium spaced stepped rough.	23.80		
	25C	25.00 - 26.50	2.50		93 93 93			Weak to medium strong light grey LIMESTONE with rare pyrite nodules (up to 2mm) and subhorizontal to 70° calcite veins (up to 5mm thick). Fractures are subhorizontal closely to medium spaced stepped rough and polished.			
06/11/17 1800hrs 7.10m								26.10 - 26.15m: Subvertical quartz vein (5mm thick). 26.20 - 26.50m: 80° stepped rough fracture with orange staining.			
07/11/17 0830hrs 7.00m	26C	26.50 - 26.56 26.50 - 28.00	2.50	C*375	100 92 80			27.00 - 27.40m: Frequent fossil fragments (up to 20mm).	27.40		
						50 130 200		Medium strong and strong grey and light grey very thinly interbedded LIMESTONE and SILTSTONE. Fractures are subhorizontal to 10° very closely and closely spaced			
								Continued Next Page	{28.00}		

water strike (m)	casing (m)	rose to (m)	time to rise (m)	remarks	CONTRACT	CHECKED
				Groundwater not encountered prior to use of water flush.	33424	NP

Geotechnical Engineering Ltd. Tel. 01452 527743 33424 MASTER.GPJ TRIALJH.GPJ GEOTECH2.GLB 23/01/2018 16:27:03 NK/KE EL

Geotechnical Engineering Limited

BOREHOLE LOG

4AP074

CLIENT	LSTC		
SITE	WYLFA - PENTIR	Sheet	4 of 4
Start Date	1 November 2017	Scale	1 : 50
End Date	7 November 2017	Depth	30.00 m

progress date/time water depth	sample no & type	depth (m) from	to	casing depth (m)	test type & value	samp. /core range	I_f	instru -ment	description	depth (m)	reduced level (m)	legend
	27C	28.00	29.00	2.50		100 100 85			planar rough. 28.20 - 28.30m: 60° quartz vein (5mm thick).			
		29.00	29.05	2.50	C*500					29.00		
	28C	29.00	30.00			100 100 86	60 160 310		Medium strong light grey LIMESTONE with frequent subvertical to 70° intersecting quartz veins (up to 5mm thick). Fractures are subhorizontal closely and medium spaced undulating rough. 29.30 - 29.50m: Vertical quartz vein (5mm thick).			
07/11/17 1800hrs 6.40m							30 60 150			29.70		
08/11/17 1430hrs 6.55m									Medium strong grey and light grey very thinly interbedded LIMESTONE and SILTSTONE. Fractures are subhorizontal to 10° very closely and closely spaced planar rough.	30.00		
									Borehole completed at 30.00m.	{38.00}		

water strike (m)	casing (m)	rose to (m)	time to rise (m)	remarks	CONTRACT	CHECKED
				Groundwater not encountered prior to use of water flush.	33424	NP

Geotechnical Engineering Ltd. Tel. 01452 527743 33424 MASTER.GPJ TRIALJH.GPJ GEOTECH2.GLB 23/01/2018 16:27:03 NK/KE EL

Geotechnical Engineering Limited

STANDARD PENETRATION TEST

CLIENT LSTC

SITE WYLFA - PENTIR

borehole no.	borehole depth (m)	s.w.p (m)	bottom depth (m)	casing depth (m)	water level (m)	seating drive blows	seating drive pen (mm)	test drive blows	test drive pen (mm)	test type	N	energy ratio (%)
4AP020	0.40		0.81	Nil	Dry	14 10	75 75	13 15 15 7	75 75 75 35	C	58	67
4AP020	1.00		1.26	Nil	Dry	17 8	75 25	21 19 10	75 75 10	C	94	67
4AP020	2.00		2.20	1.00	1.10	21 4	75 10	24 26	75 40	C	130	67
4AP020	4.00		4.24	1.00	1.20	23 2	75 5	22 24 4	75 75 5	C	97	67
4AP020	9.20		9.33	1.00	1.10	25	60	50	65	C	231	67
4AP033	1.20		1.65	Nil	0.45	2 1	75 75	2 3 3 3	75 75 75 75	S	11	67
4AP033	2.00		2.45	2.00	0.75	1 2	75 75	2 2 2 2	75 75 75 75	S	8	67
4AP033	3.00		3.45	2.00	2.85	1 2	75 75	3 3 3 3	75 75 75 75	S	12	67
4AP033	4.00		4.45	4.00	0.20	4 2	75 75	3 3 3 5	75 75 75 75	S	14	67
4AP033	5.00		5.45	4.00	0.55	3 5	75 75	7 8 7 6	75 75 75 75	S	28	67
4AP033	6.50		6.95	4.00	0.70	7 5	75 75	7 6 6 6	75 75 75 75	S	25	67
4AP033	9.00		9.44	4.00	2.70	9 16	75 65	16 13 11 10	75 75 75 70	S	51	67
4AP033	10.50		10.69	10.50	1.75	12 13	75 60	50	50	S	300	67
4AP033	14.10		14.25	10.50	0.45	12 13	75 40	50	30	C	500	67
4AP033	15.60		15.73	10.50	2.55	19 6	75 10	50	40	C	375	67
4AP060	1.20		1.65	Nil	Dry	6 11	75 75	10 11 7 7	75 75 75 75	S	35	67
4AP060	2.00		2.43	Nil	Dry	6 6	75 75	12 11 12 15	75 75 75 55	S	54	67
4AP060	3.00		3.03	3.00	1.25	25	20	50	10	S	**	67
4AP060	4.00		4.04	3.00	1.55	25	10	50	30	C	500	67
4AP060	4.50		4.54	3.00	3.00	25	10	50	25	C	600	67
4AP060	7.50		7.61	3.00	2.05	25	60	50	50	C	300	67
4AP060	7.70		7.78	3.00	2.30	25	50	50	30	C	500	67
4AP074	1.20		1.65	Nil	Dry	1 0	75 75	0 0 0 0	75 75 75 75	S	<1	67
4AP074	2.00		2.45	Nil	1.90	2 2	75 75	3 2 3 3	75 75 75 75	S	11	67

notes:

1. Test carried out in general accordance with BS EN ISO 22476-3:2005 + A1:2011
2. s.w.p = self weight penetration.
3. N values have not been subjected to any correction.
4. Test carried out using split spoon S, solid cone C.
5. Where full test drive not completed, linearly extrapolated N value reported.
6. ** Denotes no effective penetration.

CONTRACT	CHECKED
33424	**NP**

Geotechnical Engineering Limited

STANDARD PENETRATION TEST

CLIENT LSTC

SITE WYLFA - PENTIR

borehole no.	borehole depth (m)	s.w.p (m)	bottom depth (m)	casing depth (m)	water level (m)	seating drive blows	seating drive pen (mm)	test drive blows	test drive pen (mm)	test type	N	energy ratio (%)
4AP074	2.50		2.64	2.50	0.70	25	75	50	60	S	250	67
4AP074	3.50		3.56	2.50	1.05	25	20	50	35	C	429	67
4AP074	5.50		5.82	2.50	1.75	15 10	75 55	17 20 13	75 75 40	S	79	67
4AP074	11.50		11.56	2.50	2.25	25	35	50	20	C	750	67
4AP074	14.50		14.57	2.50	2.70	25	30	50	35	C	429	67
4AP074	17.00		17.07	2.50	4.10	25	20	50	45	C	333	67
4AP074	20.00		20.04	2.50	7.10	25	15	50	25	C	600	67
4AP074	23.50		23.56	2.50	6.85	25	20	50	35	C	429	67
4AP074	26.50		26.56	2.50	6.90	25	15	50	40	C	375	67
4AP074	29.00		29.05	2.50	8.40	25	20	50	30	C	500	67

notes:

1. Test carried out in general accordance with BS EN ISO 22476-3:2005 + A1:2011
2. s.w.p = self weight penetration.
3. N values have not been subjected to any correction.
4. Test carried out using split spoon S, solid cone C.
5. Where full test drive not completed, linearly extrapolated N value reported.
6. ** Denotes no effective penetration.

CONTRACT	CHECKED
33424	**NP**

Geotechnical Engineering Limited

TRIAL PIT LOG

4ZA08

CLIENT	LSTC		
SITE	WYLFA - PENTIR	Sheet	1 of 1
Start Date	19 October 2017	Scale	1 : 25
End Date	19 October 2017	Depth	1.70 m

water record	sample/test no/type	result	depth (m)	description	depth (m)	level (m)	legend
	1D		0.10	Grass over soft dark brown slightly sandy CLAY with frequent rootlets. 0.20 - 0.30m: Dark grey.			
	2B		0.40- 0.60	Soft dark orangish brown sandy CLAY.	0.40		
	3D		0.60				
	4B		1.00- 1.20	Firm dark bluish grey sandy gravelly CLAY with low tabular mudstone cobble content. Gravel is subrounded and rounded fine to coarse mudstone.	0.90		
	5D		1.20				
1.50m: Fast seepage.	6B		1.60- 1.70				
1.50m.	7D		1.70	Trial pit completed at 1.70m.	1.70		

Notes

Trial pit excavated by JCB 3CX mechanical excavator.
Groundwater seepage at 1.50m.
Trial pit sides remained stable and vertical.
Trial pit terminated at 1.70m due to water obstructing base of pit.
Trial pit dimensions 2.40x0.65x1.70m.
On completion, the trial pit was backfilled with materials arising.

Sketch of Foundation - Not to scale. All dimensions in metres.

CONTRACT	CHECKED
33424	NP

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

Geotechnical Engineering Ltd, Tel. 01452 527743 33424 MASTER.GPJ TRIALJH.GPJ GEOTECH2.GLB 23/01/2018 16:27:42 DJ CT

Geotechnical Engineering Limited

TRIAL PIT LOG

4ZA15

CLIENT	LSTC		
SITE	WYLFA - PENTIR	Sheet	1 of 1
Start Date	19 October 2017	Scale	1 : 25
End Date	19 October 2017	Depth	3.10 m

water record	sample/test no/type	result	depth (m)	description	depth (m)	level (m)	legend
	1D		0.10	Grass over soft dark brown slightly sandy CLAY with frequent rootlets.	0.25		
	2B		0.30- 0.40	Soft orangish brown sandy CLAY with low tabular mudstone cobble content.			
	3D		0.40				
	4B		1.40- 1.80				
	5D		1.70		2.50		
	6B		2.60- 2.80	Stiff light brown gravelly CLAY with low tabular mudstone cobble content. Gravel is angular fine to coarse mudstone.			
	7D		2.90		3.10		
Dry				Trial pit completed at 3.10m.			

Notes

Trial pit excavated by JCB 3CX mechanical excavator.
Groundwater was not encountered.
Trial pit sides remained stable and vertical.
Trial pit terminated at 3.10m due to strength of strata.
Trial pit dimensions 2.40x0.65x3.10m.
On completion, the trial pit was backfilled with materials arising.

Sketch of Foundation - Not to scale. All dimensions in metres.

CONTRACT	CHECKED
33424	NP

EXPLORATORY HOLE LOGS SHOULD BE READ IN CONJUNCTION WITH KEY SHEETS

Geotechnical Engineering Ltd, Tel. 01452 527743 33424 MASTER.GPJ TRIALJH.GPJ GEOTECH2.GLB 23/01/2018 16:27:42 DJ CT

nationalgrid

North Wales Connection Project

Volume 5

Document 5.11.2.7 Appendix 11.7 Human Health Risk Assessment Contamination Screening

National Grid
National Grid House
Warwick Technology Park
Gallows Hill
Warwick
CV34 6DA

Final September 2018

Contamination Screening Water - DC Onshore GI																									
Lab Sample ID		**17/04074/7**	**17/04074/8**	**17/04074/9**	**17/04074/10**	**16/01571/2**	**16/01571/1**	**17/04074/1**	**17/04074/2**	**17/04074/3**	**17/04074/4**	**17/03499/1**	**17/03499/2**	**17/03499/3**	**17/04074/5**	**17/04074/6**	**17/04074/11**	**17/04074/12**	**17/04074/13**						
Client Sample No						**101**	**101**																		
Client Sample ID		**207**	**207**	**210A**	**210A**	**BH01**	**BH02**	**BH101**	**BH102**	**BH103A**	**BH105**	**BH106**	**BH201**	**BH203**	**BH205**	**BH205**	**BH211**	**BH212C**	**BH301**						
Date Sampled		**Unknown**	**Unknown**	**Unknown**	**Unknown**	**15-Mar-16**	**15-Mar-16**	**Unknown**	**Unknown**	**Unknown**	**Unknown**	**23-Mar-17**	**11-Apr-17**	**23-Mar-17**	**Unknown**	**Unknown**	**Unknown**	**Unknown**	**Unknown**						
Sample Type		**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**						
GI PHASE		**2**	**2**	**2**	**2**	**1**	**1**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**						
Derminant	**Units**																			**Min**	**Max**	**Screening Value**	**Screening Value Source**		**Exceedances**
Misc Determinants																									
pH (w)	pH	8.1	8.26	7.12	7.4			7.93	7.75	8.17	8.26				7.59	7.8	7.49	7.57	7.95	7.12	8.26	n/a	n/a		n/a
Total Dissolved Solids (w)	mg/l	233	357	156	205	640	343	181	197	283	277				417	164	198	437	107	107	640	n/a	n/a		n/a
Ammoniacal nitrogen (w)	mg/l	<0.02	0.05	0.19	0.15			0.22	0.3	0.57	0.06				0.12	0.13	0.16	0.18	0.22	<LOD	0.57	0.3	SEPA WAT-SG-53 Fresh EQS - AA - 2015		1
Chloride (w)	mg/l	20	28	11	10			12	11	16	20				17	17	12	32	9	9	32	250	SEPA WAT-SG-53 Fresh EQS - AA - 2015		0
Sulphate (w)	mg/l	16	57	19	14			18	20	15	27				62	39	4	29	6	4	62	400	SEPA WAT-SG-53 Fresh EQS - AA - 2015		0
Phenols - Total by HPLC (w)	mg/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	<0.01	<LOD	<LOD	0.0077	WFD England/Wales. 2015 - Freshwater Standards		0
Metals																									
Arsenic (dissolved)	µg/l	33	17	9	9	<1	5	2	5	9	24	<1	<1	1	57	15	14	11	2	<LOD	57	10	WS Regs 2016 (Eng/Wal)		7
Boron (dissolved)	µg/l	18	20	23	26	73	209	20	25	24	27	14	114	137	32	30	20	102	15	14	209	1000	WS Regs 2016 (Eng/Wal)		0
Barium (dissolved)	µg/l	231	138	1720	1130			174	779	274	142	189	65	134	236	93	480	371	279	65	1720	1300	WHO DWG 2017		1
Cadmium (dissolved)	µg/l	<0.2	0.2	2.1	1.1	<0.2	<0.2	<0.2	1	0.3	<0.2	<0.2	<0.2	<0.2	0.4	1.5	0.9	0.5	0.3	<LOD	2.1	0.08	WFD England/Wales. 2015 - AA-EQS Inland		10
Cobalt (dissolved)	µg/l					<1	7													<LOD	7	3	SEPA WAT-SG-53 Fresh EQS - AA - 2015		1
Copper (dissolved)	µg/l	14	16	617	395	<1	2	20	262	73	18	2	<1	<1	120	23	881	56	28	<LOD	881	1	WFD England/Wales. 2015 - Freshwater Standards		15
Chromium (dissolved)	µg/l	6	11	55	19	<1	2	9	48	15	13	<1	<1	<1	16	2	73	16	11	<LOD	73	4.7	WFD England/Wales. 2015 - Freshwater Standards		12
Lead (dissolved)	µg/l	28	55	236	90	<1	<1	8	95	38	12	<1	<1	<1	57	10	134	40	30	<LOD	236	1.2	WFD England/Wales. 2015 - AA-EQS Inland		13
Manganese (dissolved)	µg/l					51	5													5	51	123	WFD England/Wales. 2015 - Freshwater Standards		0
Mercury (dissolved)	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<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	<LOD	0.3	0.07	WFD England/Wales. 2015 - MAC-EQS Inland		2
Molybdenum (dissolved)	µg/l					18.5	41.2													18.5	41.2	70	WHO DWG 2011		0
Nickel (dissolved)	µg/l	12	9	249	174	3	8	13	134	13	4	5	2	1	93	29	146	29	27	1	249	4	WFD England/Wales. 2015 - AA-EQS Inland		14
Selenium (dissolved)	µg/l	1	<1	10	3	<1	<1	<1	9	1	10	<1	<1	<1	2	1	5	2	3	<LOD	10	10	WS Regs 2016 (Eng/Wal)		0
Vanadium (dissolved)	µg/l	12	12	175	148			4	66	32	10	<1	<1	<1	44	5	85	28	5	<LOD	175	20	SEPA WAT-SG-53 Fresh EQS - AA - 2015		7
Zinc (dissolved)	µg/l	24	28	600	348	<1	7	13	201	62	27	3	6	2	99	45	260	98	30	<LOD	600	10.9	WFD England/Wales. 2015 - Freshwater Standards		13
PAH 16MS (w)																									
Acenaphthene (w)	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	<0.01	<0.01	<0.01	<0.01	<LOD	<LOD	18	AECOM DWG (WHO method)		0
Acenaphthylene (w)	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	<0.01	<0.01	<0.01	<0.01	<LOD	<LOD	18	AECOM DWG (WHO method)		0
Anthracene (w)	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	<0.01	<0.01	<0.01	<0.01	<LOD	<LOD	0.1	WFD England/Wales. 2015 - AA-EQS Inland		0
Benzo(a)anthracene (w)	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	<0.01	<0.01	<0.01	<0.01	<LOD	<LOD	3.5	AECOM DWG (WHO method)		0
Benzo(a)pyrene (w)	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	<0.01	<0.01	<0.01	<0.01	<LOD	<LOD	0.00017	WFD England/Wales. 2015 - AA-EQS Inland		0
Benzo(b)fluoranthene (w)	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	<0.01	<0.01	<0.01	<0.01	<LOD	<LOD	0.017	WFD England/Wales. 2015 - MAC-EQS Inland		0
Benzo(ghi)perylene (w)	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	<0.01	<0.01	<0.01	<0.01	<LOD	<LOD	0.0082	WFD England/Wales. 2015 - MAC-EQS Inland		0
Benzo(k)fluoranthene (w)	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	<0.01	<0.01	<0.01	<0.01	<LOD	<LOD	0.017	WFD England/Wales. 2015 - MAC-EQS Inland		0
Chrysene (w)	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	<0.01	<0.01	<0.01	<0.01	<LOD	<LOD	7	AECOM DWG (WHO method)		0
Dibenzo(ah)anthracene (w)	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	<0.01	<0.01	<0.01	<0.01	<LOD	<LOD	0.07	AECOM DWG (WHO method)		0
Fluoranthene (w)	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	<0.01	<0.01	<0.01	<0.01	<LOD	<LOD	0.0063	WFD England/Wales. 2015 - AA-EQS Inland		0
Fluorene (w)	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	<0.01	<0.01	<0.01	<0.01	<LOD	<LOD	12	AECOM DWG (WHO method)		0
Indeno(123-cd)pyrene (w)	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	<0.01	<0.01	<0.01	<0.01	<LOD	<LOD	0.00017	WFD England/Wales. 2015 - AA-EQS Inland		0
Naphthalene (w)	µg/l	<0.01	<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	<LOD	0.05	2	WFD England/Wales. 2015 - AA-EQS Inland		0
Phenanthrene (w)	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	<0.01	<0.01	<0.01	<0.01	<LOD	<LOD	4	AECOM DWG (WHO method)		0
Pyrene (w)	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	<0.01	<0.01	<0.01	<0.01	<LOD	<LOD	9	AECOM DWG (WHO method)		0
PAH (total 16) (w)	µg/l	<0.01	<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	<LOD	0.05	0.1	WS Regs 2016 (Eng/Wal)		0
SVOC (w)																									
2,4,5-Trichlorophenol	µg/l					<1	<25													<LOD	<LOD	1200	USEPA RSL (tapwater) [June 2017]		0
2,4,6-Trichlorophenol	µg/l					<1	<25													<LOD	<LOD	200	WHO DWG 2017		0
2,4-Dichlorophenol	µg/l					<1	<25													<LOD	<LOD	4.2	WFD England/Wales. 2015 - Freshwater Standards		0
2,4-Dimethylphenol	µg/l					<1	<25													<LOD	<LOD	360	USEPA RSL (tapwater) [June 2017]		0
2,4-Dinitrotoluene	µg/l					<1	<25													<LOD	<LOD	0.24	USEPA RSL (tapwater) [June 2017]		0
2,6-Dinitrotoluene	µg/l					<1	<25													<LOD	<LOD	0.049	USEPA RSL (tapwater) [June 2017]		0
2-Chloronaphthalene	µg/l					<1	<25													<LOD	<LOD	750	USEPA RSL (tapwater) [June 2017]		0
2-Chlorophenol	µg/l					<1	<25													<LOD	<LOD	50	SEPA WAT-SG-53 Fresh EQS - AA - 2015		0
2-Methylnaphthalene	µg/l					<1	<25													<LOD	<LOD	36	USEPA RSL (tapwater) [June 2017]		0
2-Methylphenol	µg/l					<1	<25													<LOD	<LOD	930	USEPA RSL (tapwater) [June 2017]		0
2-Nitrophenol	µg/l					<1	<25													<LOD	<LOD	2	LOD		0
4-Bromophenyl phenyl ether	µg/l					<1	<25													<LOD	<LOD	2	LOD		0
4-Chloro-3-methylphenol	µg/l					<1	<25													<LOD	<LOD	40	SEPA WAT-SG-53 Fresh EQS - AA - 2015		0
Bis(2-chloroisopropyl)ether	µg/l					<1	<25													<LOD	<LOD	1	LOD		0
4-Methylphenol	µg/l					<1	<25													<LOD	<LOD	1900	USEPA RSL (tapwater) [May 2016]		0
4-Nitrophenol	µg/l					<1	<25													<LOD	<LOD	2	USEPA RSL (tapwater) [June 2017]		0
Acenaphthene	µg/l					<1	<25													<LOD	<LOD	18	AECOM DWG (WHO method)		0
Acenaphthylene	µg/l					<1	<25													<LOD	<LOD	18	AECOM DWG (WHO method)		0
Anthracene	µg/l					<1	<25													<LOD	<LOD	0.1	WFD England/Wales. 2015 - AA-EQS Inland		0
Bis(2-chloroethyl)ether	µg/l					<1	<25													<LOD	<LOD	0.014	USEPA RSL (tapwater) [June 2017]		
Bis(2-chloroethoxy)methane	µg/l					<1	<25													<LOD	<LOD	1	LOD		0
Bis(2-ethylhexyl)phthalate	µg/l					<2	<50													<LOD	<LOD	2	LOD		0
Benzo(a)anthracene	µg/l					<1	<25													<LOD	<LOD	3.5	AECOM DWG (WHO method)		0
Butylbenzyl phthalate	µg/l					<1	<25													<LOD	<LOD	1	LOD		0
Benzo(b)fluoranthene	µg/l					<1	<25													<LOD	<LOD	0.017	WFD England/Wales. 2015 - MAC-EQS Inland		0
Benzo(k)fluoranthene	µg/l					<1	<25													<LOD	<LOD	0.017	WFD England/Wales. 2015 - MAC-EQS Inland		0
Benzo(a)pyrene	µg/l					<1	<25													<LOD	<LOD	0.00017	WFD England/Wales. 2015 - AA-EQS Inland		0
Benzo(ghi)perylene	µg/l					<1	<25													<LOD	<LOD	0.0082	WFD England/Wales. 2015 - MAC-EQS Inland		0
Carbazole	µg/l					<1	<25													<LOD	<LOD	1	LOD		0
Chrysene	µg/l					<1	<25													<LOD	<LOD	7	AECOM DWG (WHO method)		0
Dibenzofuran	µg/l					<1	<25													<LOD	<LOD	7.9	USEPA RSL (tapwater) [June 2017]		0
n-Dibutylphthalate	µg/l					4	25													4	25	8	SEPA WAT-SG-53 Fresh EQS - AA - 2015		1
n-Dioctylphthalate	µg/l					<10	<250													<LOD	<LOD	20	SEPA WAT-SG-53 Fresh EQS - AA - 2015		0

Contamination Screening Water - Onshore GI																									
Lab Sample ID		**17/04074/7**	**17/04074/8**	**17/04074/9**	**17/04074/10**	**16/01571/2**	**16/01571/1**	**17/04074/1**	**17/04074/2**	**17/04074/3**	**17/04074/4**	**17/03499/1**	**17/03499/2**	**17/03499/3**	**17/04074/5**	**17/04074/6**	**17/04074/11**	**17/04074/12**	**17/04074/13**					
Client Sample No						**101**	**101**																		
Client Sample ID		**207**	**207**	**210A**	**210A**	**BH01**	**BH02**	**BH101**	**BH102**	**BH103A**	**BH105**	**BH106**	**BH201**	**BH203**	**BH205**	**BH205**	**BH211**	**BH212C**	**BH301**					
Date Sampled		**Unknown**	**Unknown**	**Unknown**	**Unknown**	**15-Mar-16**	**15-Mar-16**	**Unknown**	**Unknown**	**Unknown**	**Unknown**	**23-Mar-17**	**11-Apr-17**	**23-Mar-17**	**Unknown**	**Unknown**	**Unknown**	**Unknown**	**Unknown**					
Sample Type		**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**					
GI PHASE		**2**	**2**	**2**	**2**	**1**	**1**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**					
Derminant	**Units**																			**Min**	**Max**	**Screening Value**	**Screening Value Source**	**Exceedances**
n-Nitroso-n-dipropylamine	µg/l					<1	<25													<LOD	<LOD	1	LOD	0
Diethyl phthalate	µg/l					<1	<25													<LOD	<LOD	1	LOD	0
Dimethyl phthalate	µg/l					<1	<25													<LOD	<LOD	800	SEPA WAT-SG-53 Fresh EQS - AA - 2015	0
Dibenzo(ah)anthracene	µg/l					<1	<25													<LOD	<LOD	0.07	AECOM DWG (WHO method)	0
Fluorene	µg/l					<1	<25													<LOD	<LOD	12	AECOM DWG (WHO method)	0
Fluoranthene	µg/l					<1	<25													<LOD	<LOD	0.0063	WFD England/Wales. 2015 - AA-EQS Inland	0
Hexachlorobenzene	µg/l					<1	<25													<LOD	<LOD	0.05	WFD England/Wales. 2015 - MAC-EQS Inland	0
Pentachlorophenol	µg/l					<1	<25													<LOD	<LOD	0.4	WFD England/Wales. 2015 - AA-EQS Inland	0
Phenol	µg/l					5	72													5	72	7.7	WFD England/Wales. 2015 - Freshwater Standards	1
Hexachloroethane	µg/l					<1	<25													<LOD	<LOD	0.33	USEPA RSL (tapwater) [June 2017]	0
Nitrobenzene	µg/l					<1	<25													<LOD	<LOD	8	USEPA RSL (tapwater) [June 2017]	0
Naphthalene	µg/l					2	36													2	36	2	WFD England/Wales. 2015 - AA-EQS Inland	1
Isophorone	µg/l					<1	<25													<LOD	<LOD	78	USEPA RSL (tapwater) [June 2017]	0
Hexachlorocyclopentadiene	µg/l					<1	<25													<LOD	<LOD	0.41	USEPA RSL (tapwater) [June 2017]	0
Phenanthrene	µg/l					<1	<25													<LOD	<LOD	4	AECOM DWG (WHO method)	0
Pyrene	µg/l					<1	<25													<LOD	<LOD	9	AECOM DWG (WHO method)	0
Indeno(1,2,3-cd)pyrene	µg/l					<1	<25													<LOD	<LOD	0.00017	WFD England/Wales. 2015 - AA-EQS Inland	0
Perylene	µg/l					<1	<25													<LOD	<LOD	1	LOD	0
VOC (w)																								
Dichlorodifluoromethane	µg/l					<1	<1													<LOD	<LOD	200	USEPA RSL (tapwater) [June 2017]	0
Chloromethane	µg/l					<10	<10													<LOD	<LOD	190	USEPA RSL (tapwater) [June 2017]	0
Vinyl Chloride	µg/l					<1	<1													<LOD	<LOD	0.5	WS Regs 2016 (Eng/Wal)	0
Bromomethane	µg/l					<1	<1													<LOD	<LOD	7.5	USEPA RSL (tapwater) [June 2017]	0
Chloroethane	µg/l					<1	<1													<LOD	<LOD	21000	USEPA RSL (tapwater) [June 2017]	0
Trichlorofluoromethane	µg/l					<1	<1													<LOD	<LOD	5200	USEPA RSL (tapwater) [June 2017]	0
trans 1,2-Dichloroethene	µg/l					<1	<1													<LOD	<LOD	1	LOD	0
Dichloromethane	µg/l					<5	<5													<LOD	<LOD	20	WFD England/Wales. 2015 - AA-EQS Inland	0
Carbon Disulphide	µg/l					<1	<1													<LOD	<LOD	1	LOD	0
1,1-Dichloroethene	µg/l					<1	<1													<LOD	<LOD	140	WHO DWG 2017	0
1,1-Dichloroethane	µg/l					<1	<1													<LOD	<LOD	2.8	USEPA RSL (tapwater) [June 2017]	0
cis 1,2-Dichloroethene	µg/l					<1	<1													<LOD	<LOD	1	LOD	0
Bromochloromethane	µg/l					<5	<5													<LOD	<LOD	83	USEPA RSL (tapwater) [June 2017]	0
Chloroform	µg/l					<1	<1													<LOD	<LOD	2.5	WFD England/Wales. 2015 - AA-EQS Inland	0
2,2-Dichloropropane	µg/l					<1	<1													<LOD	<LOD	1	LOD	0
1,2-Dichloroethane	µg/l					<2	<2													<LOD	<LOD	10	WFD England/Wales. 2015 - AA-EQS Inland	0
1,1,1-Trichloroethane	µg/l					<1	<1													<LOD	<LOD	100	SEPA WAT-SG-53 Fresh EQS - AA - 2015	0
1,1-Dichloropropene	µg/l					<1	<1													<LOD	<LOD	1	LOD	0
Benzene	µg/l					<1	3													<LOD	3	1	WS Regs 2016 (Eng/Wal)	1
Carbon Tetrachloride	µg/l					<1	<1													<LOD	<LOD	3	WS Regs 2016 (Eng/Wal)	0
Dibromomethane	µg/l					<1	<1													<LOD	<LOD	8.3	USEPA RSL (tapwater) [June 2017]	0
1,2-Dichloropropane	µg/l					<1	<1													<LOD	<LOD	40	WHO DWG 2017	0
Bromodichloromethane	µg/l					<10	<10													<LOD	<LOD	10	LOD	0
Trichloroethene	µg/l					<1	<1													<LOD	<LOD	10	WFD England/Wales. 2015 - AA-EQS Inland	0
cis 1,3-Dichloropropene	µg/l					<1	<1													<LOD	<LOD	1	LOD	0
trans 1,3-Dichloropropene	µg/l					<1	<1													<LOD	<LOD	1	LOD	0
1,1,2-Trichloroethane	µg/l					<1	<1													<LOD	<LOD	0.28	USEPA RSL (tapwater) [June 2017]	0
Toluene	µg/l					<1	2													<LOD	2	74	WFD England/Wales. 2015 - Freshwater Standards	0
1,3-Dichloropropane	µg/l					<1	<1													<LOD	<LOD	370	USEPA RSL (tapwater) [June 2017]	0
Dibromochloromethane	µg/l					<3	<3													<LOD	<LOD	3	LOD	0
1,2-Dibromoethane	µg/l					<1	<1													<LOD	<LOD	0.4	WHO DWG 2017	0
Tetrachloroethene	µg/l					<1	<1													<LOD	<LOD	10	WFD England/Wales. 2015 - AA-EQS Inland	0
1,1,1,2-Tetrachloroethane	µg/l					<1	<1													<LOD	<LOD	0.57	USEPA RSL (tapwater) [June 2017]	0
Chlorobenzene	µg/l					<1	<1													<LOD	<LOD	300	WHO DWG 2017	0
Ethylbenzene	µg/l					<1	<1													<LOD	<LOD	20	SEPA WAT-SG-53 Fresh EQS - AA - 2015	0
m & p Xylene	µg/l					<1	<1													<LOD	<LOD	190	USEPA RSL (tapwater) [June 2017]	0
Bromoform	µg/l					<1	<1													<LOD	<LOD	100	WS Regs 2016 (Eng/Wal)	0
Styrene	µg/l					<1	<1													<LOD	<LOD	20	WHO DWG 2017	0
1,1,2,2-Tetrachloroethane	µg/l					<1	<1													<LOD	<LOD	0.076	USEPA RSL (tapwater) [June 2017]	0
o-Xylene	µg/l					<1	<1													<LOD	<LOD	190	USEPA RSL (tapwater) [June 2017]	0
1,2,3-Trichloropropane	µg/l					<1	<1													<LOD	<LOD	0.00075	USEPA RSL (tapwater) [June 2017]	0
Isopropylbenzene	µg/l					<1	<1													<LOD	<LOD	450	USEPA RSL (tapwater) [June 2017]	0
Bromobenzene	µg/l					<1	<1													<LOD	<LOD	62	USEPA RSL (tapwater) [June 2017]	0
2-Chlorotoluene	µg/l					<1	<1													<LOD	<LOD	240	USEPA RSL (tapwater) [June 2017]	0
n-propylbenzene	µg/l					<1	<1													<LOD	<LOD	660	USEPA RSL (tapwater) [June 2017]	0
4-Chlorotoluene	µg/l					<1	<1													<LOD	<LOD	250	USEPA RSL (tapwater) [June 2017]	0
1,2,4-Trimethylbenzene	µg/l					<1	<1													<LOD	<LOD	56	USEPA RSL (tapwater) [June 2017]	0
4-Isopropyltoluene	µg/l					<1	<1													<LOD	<LOD	1	LOD	0
1,3,5-Trimethylbenzene	µg/l					<1	<1													<LOD	<LOD	60	USEPA RSL (tapwater) [June 2017]	0
1,2-Dichlorobenzene	µg/l					<1	<1													<LOD	<LOD	1000	WHO DWG 2017	0
1,4-Dichlorobenzene	µg/l					<1	<1													<LOD	<LOD	300	WHO DWG 2017	0
sec-Butylbenzene	µg/l					<1	<1													<LOD	<LOD	2000	USEPA RSL (tapwater) [June 2017]	0
tert-Butylbenzene	µg/l					<2	<2													<LOD	<LOD	690	USEPA RSL (tapwater) [June 2017]	0
1,3-Dichlorobenzene	µg/l					<1	<1													<LOD	<LOD	1	LOD	0
n-butylbenzene	µg/l					<1	<1													<LOD	<LOD	1000	USEPA RSL (tapwater) [June 2017]	0

Contamination Screening Water - Onshore GI																									
Lab Sample ID		**17/04074/7**	**17/04074/8**	**17/04074/9**	**17/04074/10**	**16/01571/2**	**16/01571/1**	**17/04074/1**	**17/04074/2**	**17/04074/3**	**17/04074/4**	**17/03499/1**	**17/03499/2**	**17/03499/3**	**17/04074/5**	**17/04074/6**	**17/04074/11**	**17/04074/12**	**17/04074/13**					
Client Sample No						**101**	**101**																		
Client Sample ID		**207**	**207**	**210A**	**210A**	**BH01**	**BH02**	**BH101**	**BH102**	**BH103A**	**BH105**	**BH106**	**BH201**	**BH203**	**BH205**	**BH205**	**BH211**	**BH212C**	**BH301**					
Date Sampled		**Unknown**	**Unknown**	**Unknown**	**Unknown**	**15-Mar-16**	**15-Mar-16**	**Unknown**	**Unknown**	**Unknown**	**Unknown**	**23-Mar-17**	**11-Apr-17**	**23-Mar-17**	**Unknown**	**Unknown**	**Unknown**	**Unknown**	**Unknown**					
Sample Type		**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**	**Water - EW**					
GI PHASE		**2**	**2**	**2**	**2**	**1**	**1**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**					
Derminant	**Units**																			**Min**	**Max**	**Screening Value**	**Screening Value Source**		**Exceedances**
1,2-Dibromo-3-chloropropane	µg/l					<2	<2													<LOD	<LOD	1	WHO DWG 2017		0
1,2,4-Trichlorobenzene	µg/l					<3	<3													<LOD	<LOD	3	LOD		0
1,2,3-Trichlorobenzene	µg/l					<3	<3													<LOD	<LOD	3	LOD		0
Hexachlorobutadiene	µg/l					<1	<1													<LOD	<LOD	0.1	WS Regs 2016 (Eng/Wal)		0
TPH CWG																									
Ali >C5-C6 (w)	µg/l					<1	2													<LOD	2	15000	WHO Petroleum DWG 2008		0
Ali >C6-C8 (w)	µg/l					<1	2													<LOD	2	15000	WHO Petroleum DWG 2008		0
Ali >C8-C10 (w)	µg/l					<1	1													<LOD	1	300	WHO Petroleum DWG 2008		0
Ali >C10-C12 (w)	µg/l					<5	<50													<LOD	<LOD	300	WHO Petroleum DWG 2008		0
Ali >C12-C16 (w)	µg/l					<5	1737													<LOD	1737	300	WHO Petroleum DWG 2008		1
Ali >C16-C21 (w)	µg/l					<5	<50													<LOD	<LOD	300	WHO Petroleum DWG 2008		0
Ali >C21-C35 (w)	µg/l					<5	<50													<LOD	<LOD	300	WHO Petroleum DWG 2008		0
Total Aliphatics (w)	µg/l					<5	1740													<LOD	1740	300	WHO Petroleum DWG 2008		1
Aro >C5-C7 (w)	µg/l					<1	5													<LOD	5	1	WS Regs 2016 (Eng/Wal)		1
Aro >C7-C8 (w)	µg/l					1	4													1	4	74	WFD England/Wales. 2015 - Freshwater Standards		0
Aro >C8-C9 (w)	µg/l					2	5													2	5	300	WHO Petroleum DWG 2008		0
Aro >C9-C10 (w)	µg/l					1	5													1	5	300	WHO Petroleum DWG 2008		0
Aro >C10-C12 (w)	µg/l					<5	<50													<LOD	<LOD	90	WHO Petroleum DWG 2008		0
Aro >C12-C16 (w)	µg/l					<5	<50													<LOD	<LOD	90	WHO Petroleum DWG 2008		0
Aro >C16-C21 (w)	µg/l					<5	<50													<LOD	<LOD	90	WHO Petroleum DWG 2008		0
Aro >C21-C35 (w)	µg/l					<5	<50													<LOD	<LOD	90	WHO Petroleum DWG 2008		0
Total Aromatics (w)	µg/l					<5	<50													<LOD	<LOD	90	WHO Petroleum DWG 2008		0
TPH (Ali & Aro) (w)	µg/l					<5	1760					<50	<50	<50						<LOD	1760	300	WHO Petroleum DWG 2008		1
BTEX - Benzene (w)	µg/l					<1	5													<LOD	5	10	WFD England/Wales. 2015 - AA-EQS Inland		0
BTEX - Toluene (w)	µg/l					1	4													1	4	74	WFD England/Wales. 2015 - Freshwater Standards		0
BTEX - Ethyl Benzene (w)	µg/l					<1	<1													<LOD	<LOD	20	SEPA WAT-SG-53 Fresh EQS - AA - 2015		0
BTEX - m & p Xylene (w)	µg/l					<1	2													<LOD	2	30	SEPA WAT-SG-53 Fresh EQS - AA - 2015		0
BTEX - o Xylene (w)	µg/l					<1	1													<LOD	1	30	SEPA WAT-SG-53 Fresh EQS - AA - 2015		0
MTBE (w)	µg/l					<1	<1													<LOD	<LOD	1	LOD		0

Leachates Contamination Assessment - Onshore GI Lab Sample ID																					
Client Sample No			**16/01468/2**	**16/01344/2**	**16/01344/6**	**16/01093/1**	**16/01093/3**	**16/00674/2**	**16/00674/5**	**17/01217/2**	**17/01217/3**	**17/01826/1**	**17/01826/5**	**17/01826/7**	**17/01826/10**	**17/01826/14**					
Client Sample ID			**102**	**102**	**102**	**101**	**103**	**102**	**3**	**2**	**3**	**1**	**1**	**1**	**1**	**2**					
Sample Depth			**BH1**	**BH2**	**BH3**	**BH4**	**BH4**	**BH5**	**BH6**	**BH101**	**BH101**	**TP101**	**TP103**	**TP201**	**TP202**	**TP203**					
GI PHASE			**0.30**	**0.30**	**0.30**	**0.10**	**0.50**	**0.30**	**0.30**	**0.20**	**0.50**	**0.20**	**0.20**	**0.20**	**0.20**	**0.50**					
Date Sampled			**1**	**1**	**1**	**1**	**1**			**2**	**2**	**2**	**2**	**2**	**2**	**2**	**Min**	**Max**	**Screening Value**	**Screening Value Source**	**Exceedances**
Sample Type			**04-Mar-16**	**02-Mar-16**	**23-Feb-16**	**15-Feb-16**	**15-Feb-16**	**01-Feb-16**	**02-Feb-16**	**15-Feb-17**	**15-Feb-17**	**16-Feb-17**	**16-Feb-17**	**15-Feb-17**	**15-Feb-17**	**15-Feb-17**					
Strata Logs			**Soil - ES**	**Soil - ES**	**Soil - ES**	**Soil - ES**	**Soil - ES**	**Soil - ES**	**Soil - ES**	**Soil - ES**	**Soil - ES**	**Soil - ES**	**Soil - ES**	**Soil - ES**	**Soil - ES**	**Soil - ES**					
Target																					
Determinant	**Units**	**Method**																			
Leachate Prep BS EN 12457-1 (2:1)																					
Phenols (total by HPLC)	mg/l	A-T-050w	<0.01			<0.01		<0.01	<0.01								<LOD	<LOD	7.7	WFD England/Wales. 2015 - Freshwater Standards	0
Sulphate	mg/l	A-T-026w	2.25			<1.00	<1.00	8.52	2.68	2.97	8.89	4.31	2.58	<1.00	1.4	1.26	<LOD	8.89	400	SEPA WAT-SG-53 Fresh EQS - AA - 2015	0
Arsenic	µg/l	A-T-025w	2			2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<LOD	2	10	WS Regs 2016 (Eng/Wal)	0
Boron	µg/l	A-T-025w				<10	12	15	<10								<LOD	15	1000	WS Regs 2016 (Eng/Wal)	0
Barium	µg/l	A-T-025w				8	3	27	23								3	27	1300	WHO DWG 2017	0
Beryllium	µg/l	A-T-025w				<1	<1	<1	<1								<LOD	<LOD	12	WHO DWG 2017	0
Cadmium	µg/l	A-T-025w	<1			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<LOD	<LOD	0.08	WFD England/Wales. 2015 - AA-EQS Inland	0
Copper	µg/l	A-T-025w	7			6	<1	2	3	2	<1	3	3	5	4	<1	<LOD	7	1	WFD England/Wales. 2015 - Freshwater Standards	9
Chromium	µg/l	A-T-025w	<1			<1	<1	<1	9	<1	<1	<1	<1	<1	<1	<1	<LOD	9	4.7	WFD England/Wales. 2015 - Freshwater Standards	1
Iron	µg/l	A-T-025w				473	392	127	40								40	473	1000	WFD England/Wales. 2015 - Freshwater Standards	0
Lead	µg/l	A-T-025w	8			1	<1	6	28	2	<1	3	2	3	2	<1	<LOD	28	1.2	WFD England/Wales. 2015 - AA-EQS Inland	8
Mercury	µg/l	A-T-025w	<0.1			<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<LOD	<LOD	0.07	WFD England/Wales. 2015 - MAC-EQS Inland	0
Nickel	µg/l	A-T-025w	<1			<1	<1	<1	<1	1	<1	2	2	<1	<1	<1	<LOD	2	4	WFD England/Wales. 2015 - AA-EQS Inland	0
Selenium	µg/l	A-T-025w	<1			<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<LOD	<LOD	10	WS Regs 2016 (Eng/Wal)	0
Vanadium	µg/l	A-T-025w				1	<1	<1	<1	31	3						<LOD	31	20	SEPA WAT-SG-53 Fresh EQS - AA - 2015	1
Zinc	µg/l	A-T-025w	11			2	<1	6	7			44	53	9	6	2	<LOD	53	10.9	WFD England/Wales. 2015 - Freshwater Standards	3
BTEX - Benzene	µg/l	A-T-022w	<1			<1		<1	<1			<1	<1	<1	<1	<1	<LOD	<LOD	1	WS Regs 2016 (Eng/Wal)	0
BTEX - Toluene	µg/l	A-T-022w	<1			<1		<1	<1			<1	<1	<1	<1	<1	<LOD	<LOD	74	WFD England/Wales. 2015 - Freshwater Standards	0
BTEX - Ethyl Benzene	µg/l	A-T-022w	<1			<1		<1	<1			<1	<1	<1	<1	<1	<LOD	<LOD	20	SEPA WAT-SG-53 Fresh EQS - AA - 2015	0
BTEX - o Xylene	µg/l	A-T-022w	<1			<1		<1	<1			<1	<1	<1	<1	<1	<LOD	<LOD	190	USEPA RSL (tapwater) [June 2017]	0
BTEX - m & p Xylene	µg/l	A-T-022w	<1			<1		<1	<1			<1	<1	<1	<1	<1	<LOD	<LOD	190	USEPA RSL (tapwater) [June 2017]	0
MTBE	µg/l	A-T-022w	<1			<1		<1	<1			<2	<2	<2	<2	<2	<LOD	<LOD	1800	AECOM DWG (WHO method)	0
PAH 16MS																					
Acenaphthene	µg/l	A-T-019w	0.07			<0.02	<0.02	0.02	0.05	<0.02	<0.02	0.04	0.09	<0.02	0.04	0.03	<LOD	0.09	18	AECOM DWG (WHO method)	0
Acenaphthylene	µg/l	A-T-019w	0.02			<0.02	<0.02	<0.02	0.1	<0.02	<0.02	<0.02	0.04	<0.02	<0.02	<0.02	<LOD	0.1	18	AECOM DWG (WHO method)	0
Anthracene	µg/l	A-T-019w	<0.02			<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<LOD	<LOD	0.1	WFD England/Wales. 2015 - AA-EQS Inland	0
Benzo(a)anthracene	µg/l	A-T-019w	<0.02			0.02	<0.02	<0.02	0.04	<0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<LOD	0.05	3.5	AECOM DWG (WHO method)	0
Benzo(a)pyrene	µg/l	A-T-019w	<0.02			<0.02	<0.02	<0.02	0.08	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<LOD	0.08	0.00017	WFD England/Wales. 2015 - AA-EQS Inland	2
Benzo(b)fluoranthene	µg/l	A-T-019w	<0.02			<0.02	<0.02	<0.02	0.08	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<LOD	0.08	0.017	WFD England/Wales. 2015 - MAC-EQS Inland	2
Benzo(ghi)perylene	µg/l	A-T-019w	<0.02			<0.02	<0.02	<0.02	0.19	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<LOD	0.19	0.0082	WFD England/Wales. 2015 - MAC-EQS Inland	1
Benzo(k)fluoranthene	µg/l	A-T-019w	<0.02			<0.02	<0.02	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<LOD	0.06	0.017	WFD England/Wales. 2015 - MAC-EQS Inland	1
Chrysene	µg/l	A-T-019w	<0.02			<0.02	<0.02	<0.02	0.02	<0.02	0.07	<0.02	<0.02	<0.02	<0.02	<0.02	<LOD	0.07	7	AECOM DWG (WHO method)	0
Dibenzo(ah)anthracene	µg/l	A-T-019w	<0.02			<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<LOD	<LOD	0.07	AECOM DWG (WHO method)	0
Fluoranthene	µg/l	A-T-019w	<0.02			<0.02	<0.02	<0.02	0.06	<0.02	0.18	<0.02	<0.02	<0.02	<0.02	<0.02	<LOD	0.18	0.0063	WFD England/Wales. 2015 - AA-EQS Inland	2
Fluorene	µg/l	A-T-019w	<0.02			<0.02	<0.02	<0.02	0.02	<0.02	<0.02	<0.02	0.03	<0.02	<0.02	<0.02	<LOD	0.03	12	AECOM DWG (WHO method)	0
Indeno(123-cd)pyrene	µg/l	A-T-019w	<0.02			<0.02	<0.02	<0.02	0.15	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<LOD	0.15	0.00017	WFD England/Wales. 2015 - AA-EQS Inland	2
Naphthalene	µg/l	A-T-019w	0.41			0.02	<0.02	0.21	0.26	<0.02	<0.02	0.94	2.08	0.16	1.22	0.4	<LOD	2.08	2	WFD England/Wales. 2015 - AA-EQS Inland	1
Phenanthrene	µg/l	A-T-019w	0.02			<0.02	<0.02	<0.02	0.06	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<LOD	0.06	4	AECOM DWG (WHO method)	0
Pyrene	µg/l	A-T-019w	<0.02			<0.02	<0.02	<0.02	0.06	<0.02	0.15	<0.02	<0.02	<0.02	<0.02	<0.02	<LOD	0.15	9	AECOM DWG (WHO method)	0
TPH CWG Leachable																					
Ali >C5-C6	µg/l	A-T-022w	<1	<5	<5	<3		<1	<1			<2	<2	<2	<2	<2	<LOD	<LOD	15000	WHO Petroleum DWG 2008	0
Ali >C6-C8	µg/l	A-T-022w	<1	<1	<1	<3		<1	<1			<1	<1	<1	<1	<1	<LOD	<LOD	15000	WHO Petroleum DWG 2008	0
Ali >C8-C10	µg/l	A-T-022w	<1	<1	<1	<1		<1	<1			<1	<1	<1	<1	<1	<LOD	<LOD	300	WHO Petroleum DWG 2008	0
Ali >C10-C12	µg/l	A-T-023w	<10	<10	<10	<10		<10	<10			<10	<10	<10	<10	<10	<LOD	<LOD	300	WHO Petroleum DWG 2008	0
Ali >C12-C16	µg/l	A-T-023w	<10	<10	<10	<10		<10	<10			<10	<10	<10	<10	<10	<LOD	<LOD	300	WHO Petroleum DWG 2008	0
Ali >C16-C21	µg/l	A-T-023w	<10	<10	<10	<10		<10	<10			<10	<10	<10	<10	<10	<LOD	<LOD	300	WHO Petroleum DWG 2008	0
Ali >C21-C35	µg/l	A-T-023w	<10	<10	<10	<10		<10	<10			<10	<10	<10	<10	<10	<LOD	<LOD	300	WHO Petroleum DWG 2008	0
Total Aliphatics	µg/l	A-T-022+23w	<10	<10	<10	<10		<10	<10			<10	<10	<10	<10	<10	<LOD	<LOD	10	LOD	0
Aro >C5-C7	µg/l	A-T-022w	<1	<1	<1	<1		<1	<1			<1	<1	<1	<1	<1	<LOD	<LOD	1	WS Regs 2016 (Eng/Wal)	0
Aro >C7-C8	µg/l	A-T-022w	<1	<1	<1	<1		<1	<1			<1	<1	<1	<1	<1	<LOD	<LOD	74	WFD England/Wales. 2015 - Freshwater Standards	0
Aro >C8-C9	µg/l	A-T-022w	<1	<1	<1	<1		<1	<1			<1	<1	<1	<1	<1	<LOD	<LOD	300	WHO Petroleum DWG 2008	0
Aro >C9-C10	µg/l	A-T-022w	<1	<1	<1	<1		<1	<1			<1	<1	<1	<1	<1	<LOD	<LOD	300	WHO Petroleum DWG 2008	0
Aro >C10-C12	µg/l	A-T-023w	<10	<10	<10	<10		<10	<10			<10	<10	<10	<10	<10	<LOD	<LOD	90	WHO Petroleum DWG 2008	0
Aro >C12-C16	µg/l	A-T-023w	<10	<10	<10	<10		<10	<10			<10	<10	<10	<10	<10	<LOD	<LOD	90	WHO Petroleum DWG 2008	0
Aro >C16-C21	µg/l	A-T-023w	<10	<10	<10	<10		<10	<10			<10	<10	<10	<10	<10	<LOD	<LOD	90	WHO Petroleum DWG 2008	0
Aro >C21-C35	µg/l	A-T-023w	<10	<10	<10	<10		<10	<10			<10	<10	<10	<10	<10	<LOD	<LOD	90	WHO Petroleum DWG 2008	0
Total Aromatics	µg/l	A-T-022+23w	<10	<10	<10	<10		<10	<10	<100	<100	<10	<10	<10	<10	<10	<LOD	<LOD	10	LOD	0
TPH (Ali & Aro)	µg/l	A-T-023w	<10	<10	<10	<10		<10	<10			<10	<10	<10	<10	<10	<LOD	<LOD	10	LOD	0
SVOC excluding PAH-16																					
2,4,5-Trichlorophenol	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	1200	USEPA RSL (tapwater) [June 2017]	0
2,4,6-Trichlorophenol	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	200	WHO DWG 2017	0
2,4-Dichlorophenol	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	4.2	WFD England/Wales. 2015 - Freshwater Standards	0
2,4-Dimethylphenol	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	360	USEPA RSL (tapwater) [June 2017]	0
2,4-Dinitrotoluene	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	0.24	USEPA RSL (tapwater) [June 2017]	0
2,6-Dinitrotoluene	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	0.049	USEPA RSL (tapwater) [June 2017]	0
2-Chloronaphthalene	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	750	USEPA RSL (tapwater) [June 2017]	0
2-Chlorophenol	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	50	SEPA WAT-SG-53 Fresh EQS - AA - 2015	0
2-Methylnaphthalene	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	36	USEPA RSL (tapwater) [June 2017]	0
2-Methylphenol	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	930	USEPA RSL (tapwater) [June 2017]	0
2-Nitrophenol	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	2	LOD	0
4-Bromophenyl phenyl ether	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	2	LOD	0
4-Chloro-3-methylphenol	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	40	SEPA WAT-SG-53 Fresh EQS - AA - 2015	0
4-Methylphenol	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	1900	USEPA RSL (tapwater) [May 2016]	0
4-Nitrophenol	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	2	USEPA RSL (tapwater) [June 2017]	0
Bis(2-chloroethoxy)methane	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	2	LOD	0
Bis(2-chloroethyl)ether	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	0.014	USEPA RSL (tapwater) [June 2017]	0
Bis(2-chloroisopropyl)ether	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	2	LOD	0
Bis(2-ethylhexyl)phthalate	µg/l	A-T-052w				<4		<4	<4								<LOD	<LOD	4	LOD	0
Butylbenzyl phthalate	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	2	LOD	0
Carbazole	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	2	LOD	0
Dibenzofuran	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	7.9	USEPA RSL (tapwater) [June 2017]	0
Diethyl phthalate	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	2	LOD	0
Dimethyl phthalate	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	800	SEPA WAT-SG-53 Fresh EQS - AA - 2015	0
n-Dibutylphthalate	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	8	SEPA WAT-SG-53 Fresh EQS - AA - 2015	0
n-Dioctylphthalate	µg/l	A-T-052w				<10		<10	<10								<LOD	<LOD	20	SEPA WAT-SG-53 Fresh EQS - AA - 2015	0

Leachates Contamination Assessment - Onshore GI Lab Sample ID																					
Client Sample No			**16/01468/2**	**16/01344/2**	**16/01344/6**	**16/01093/1**	**16/01093/3**	**16/00674/2**	**16/00674/5**	**17/01217/2**	**17/01217/3**	**17/01826/1**	**17/01826/5**	**17/01826/7**	**17/01826/10**	**17/01826/14**					
Client Sample ID			**102**	**102**	**102**	**101**	**103**	**102**	**3**	**2**	**3**	**1**	**1**	**1**	**1**	**2**					
Sample Depth			**BH1**	**BH2**	**BH3**	**BH4**	**BH4**	**BH5**	**BH6**	**BH101**	**BH101**	**TP101**	**TP103**	**TP201**	**TP202**	**TP203**					
GI PHASE			**0.30**	**0.30**	**0.30**	**0.10**	**0.50**	**0.30**	**0.30**	**0.20**	**0.50**	**0.20**	**0.20**	**0.20**	**0.20**	**0.50**					
Date Sampled			**1**	**1**	**1**	**1**	**1**			**2**	**2**	**2**	**2**	**2**	**2**	**2**	**Min**	**Max**	**Screening Value**	**Screening Value Source**	**Exceedances**
Sample Type			**04-Mar-16**	**02-Mar-16**	**23-Feb-16**	**15-Feb-16**	**15-Feb-16**	**01-Feb-16**	**02-Feb-16**	**15-Feb-17**	**15-Feb-17**	**16-Feb-17**	**16-Feb-17**	**15-Feb-17**	**15-Feb-17**	**15-Feb-17**					
Strata Logs			**Soil - ES**	**Soil - ES**	**Soil - ES**	**Soil - ES**	**Soil - ES**	**Soil - ES**	**Soil - ES**	**Soil - ES**	**Soil - ES**	**Soil - ES**	**Soil - ES**	**Soil - ES**	**Soil - ES**	**Soil - ES**					
Target																					
Determinant	**Units**	**Method**																			
Hexachlorobenzene	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	0.05	WFD England/Wales. 2015 - MAC-EQS Inland	0
Hexachlorocyclopentadiene	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	0.41	USEPA RSL (tapwater) [June 2017]	0
Hexachloroethane	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	0.33	USEPA RSL (tapwater) [June 2017]	0
Isophorone	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	78	USEPA RSL (tapwater) [June 2017]	0
Nitrobenzene	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	8	USEPA RSL (tapwater) [June 2017]	0
n-Nitroso-n-dipropylamine	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	2	LOD	0
Pentachlorophenol	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	0.4	WFD England/Wales. 2015 - AA-EQS Inland	0
Perylene	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	2	LOD	0
Phenol	µg/l	A-T-052w				<2		<2	<2								<LOD	<LOD	7.7	WFD England/Wales. 2015 - Freshwater Standards	0
VOC																					
Dibromochloromethane	µg/l	A-T-006w				<3		<3	<3								<LOD	<LOD	3	LOD	0
Dibromomethane	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	8.3	USEPA RSL (tapwater) [June 2017]	0
Dichlorodifluoromethane	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	200	USEPA RSL (tapwater) [June 2017]	0
Dichloromethane	µg/l	A-T-006w				<5		<5	<5								<LOD	<LOD	20	WFD England/Wales. 2015 - AA-EQS Inland	0
Ethylbenzene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	20	SEPA WAT-SG-53 Fresh EQS - AA - 2015	0
Hexachlorobutadiene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	0.6	WFD England/Wales. 2015 - MAC-EQS Inland	0
Isopropylbenzene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	450	USEPA RSL (tapwater) [June 2017]	0
n-butylbenzene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	1000	USEPA RSL (tapwater) [June 2017]	0
n-propylbenzene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	660	USEPA RSL (tapwater) [June 2017]	0
o-Xylene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	1	LOD	0
m & p Xylene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	1	LOD	0
sec-Butylbenzene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	2000	USEPA RSL (tapwater) [June 2017]	0
Styrene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	50	SEPA WAT-SG-53 Fresh EQS - AA - 2015	0
tert-Butylbenzene	µg/l	A-T-006w				<2		<2	<2								<LOD	<LOD	690	USEPA RSL (tapwater) [June 2017]	0
Tetrachloroethene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	10	WFD England/Wales. 2015 - AA-EQS Inland	0
Toluene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	74	WFD England/Wales. 2015 - Freshwater Standards	0
trans 1,2-Dichloroethene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	1	LOD	0
trans 1,3-Dichloropropene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	1	LOD	0
Trichloroethene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	10	WFD England/Wales. 2015 - AA-EQS Inland	0
Trichlorofluoromethane	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	5200	USEPA RSL (tapwater) [June 2017]	0
Vinyl Chloride	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	0.5	WS Regs 2016 (Eng/Wal)	0
1,1,1,2-Tetrachloroethane	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	0.57	USEPA RSL (tapwater) [June 2017]	0
1,1,1-Trichloroethane	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	100	SEPA WAT-SG-53 Fresh EQS - AA - 2015	0
1,1,2,2-Tetrachloroethane	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	140	WFD England/Wales. 2015 - Freshwater Standards	0
1,1,2-Trichloroethane	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	400	SEPA WAT-SG-53 Fresh EQS - AA - 2015	0
1,1-Dichloroethane	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	2.8	USEPA RSL (tapwater) [June 2017]	0
1,1-Dichloroethene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	140	WHO DWG 2017	0
1,1-Dichloropropene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	1	LOD	0
1,2,3-Trichlorobenzene	µg/l	A-T-006w				<3		<3	<3								<LOD	<LOD	3	LOD	0
1,2,3-Trichloropropane	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	0.00075	USEPA RSL (tapwater) [June 2017]	0
1,2,4-Trichlorobenzene	µg/l	A-T-006w				<3		<3	<3								<LOD	<LOD	3	LOD	0
1,2,4-Trimethylbenzene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	15	USEPA RSL (tapwater) [June 2017]	0
1,2-Dibromo-3-chloropropane	µg/l	A-T-006w				<2		<2	<2								<LOD	<LOD	1	WHO DWG 2017	0
1,2-Dibromoethane	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	0.4	WHO DWG 2017	0
1,2-Dichlorobenzene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	1000	WHO DWG 2017	0
1,2-Dichloroethane	µg/l	A-T-006w				<2		<2	<2								<LOD	<LOD	3	WS Regs 2016 (Eng/Wal)	0
1,2-Dichloropropane	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	40	WHO DWG 2017	0
1,3,5-Trimethylbenzene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	60	USEPA RSL (tapwater) [June 2017]	0
1,3-Dichlorobenzene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	1	LOD	0
1,3-Dichloropropane	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	370	USEPA RSL (tapwater) [June 2017]	0
1,4-Dichlorobenzene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	300	WHO DWG 2017	0
2,2-Dichloropropane	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	1	LOD	0
2-Chlorotoluene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	240	USEPA RSL (tapwater) [June 2017]	0
4-Chlorotoluene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	250	USEPA RSL (tapwater) [June 2017]	0
4-Isopropyltoluene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	1		0
Benzene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	10	WFD England/Wales. 2015 - AA-EQS Inland	0
Bromobenzene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	62	USEPA RSL (tapwater) [June 2017]	0
Bromochloromethane	µg/l	A-T-006w				<5		<5	<5								<LOD	<LOD	83	USEPA RSL (tapwater) [June 2017]	0
Bromodichloromethane	µg/l	A-T-006w				<10		<10	<10								<LOD	<LOD	5	WS Regs 2016 (Eng/Wal)	0
Bromoform	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	10	WS Regs 2016 (Eng/Wal)	0
Bromomethane	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	7.5	USEPA RSL (tapwater) [June 2017]	0
Carbon Disulphide	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	1	LOD	0
Carbon Tetrachloride	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	3	WS Regs 2016 (Eng/Wal)	0
Chlorobenzene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	300	WHO DWG 2017	0
Chloroethane	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	21000	USEPA RSL (tapwater) [May 2016]	0
Chloroform	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	2.5	WFD England/Wales. 2015 - AA-EQS Inland	0
Chloromethane	µg/l	A-T-006w				<10		<10	<10								<LOD	<LOD	190	USEPA RSL (tapwater) [June 2017]	0
cis 1,2-Dichloroethene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	1	LOD	0
cis 1,3-Dichloropropene	µg/l	A-T-006w				<1		<1	<1								<LOD	<LOD	1	LOD	0

Soils Contamination Assessment - Onshore GI																															
Lab Sample ID			16/01468/2	16/01344/2	16/01344/6	16/01093/1	16/01093/3	16/00674/2	16/00674/5	17/01217/2	17/01217/3	17/01217/4	17/01826/1	17/01826/2	17/01826/3	17/01826/4	17/01826/5	17/01826/6	17/01826/7	17/01826/9	17/01826/10	17/01826/11	17/01826/13	17/01826/14	17/01826/15						
Client Sample No			102	102	102	101	103	102	3	2	3	4	1	2	1	2	1	2	1	4	1	2	1	2	6						
Client Sample ID			BH1	BH2	BH3	BH4	BH4	BH5	BH6	BH101	BH101	BH101	TP101	TP101	TP102	TP102	TP103	TP103	TP201	TP201	TP202	TP202	TP203	TP203	TP203						
Depth of Sample			0.30	0.30	0.30	0.10	0.50	0.30	0.30	0.20	0.50	1.00	0.20	0.50	0.20	0.50	0.20	0.50	0.20	1.00	0.20	0.50	0.20	0.50	1.00				**Screening Value Source (HH Soil. Commercial/Industrial. Sand. TOC >=0.58 to <1.45%)**		
GI Phase			1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2						
Date Sampled			04-Mar-16	02-Mar-16	23-Feb-16	15-Feb-16	15-Feb-16	01-Feb-16	02-Feb-16	15-Feb-17	15-Feb-17	15-Feb-17	16-Feb-17	16-Feb-17	15-Feb-17	15-Feb-17	16-Feb-17	16-Feb-17	15-Feb-17	15-Feb-17	15-Feb-17	15-Feb-17	15-Feb-17	15-Feb-17	15-Feb-17						
Strata Logs																															
Description																										**Min**	**Max**	**Screening Value**		**Exceedances**	
Determinant	Units	Method																													
pH	pH	A-T-031s	6.84	6.78	4.51					6.52	6.81	7.14	6.12	6.37	5.78	6.3	6.27	6.55	5.74	6.12	5.5	6.35	5.45	5.99	5.89	4.51	7.14	n/a	Not Screened	n/a	
Sulphate (water sol 2:1)	g/l	A-T-026s	0.04	<0.01	0.04	0.02	0.02	0.02	0.02	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<LOD	0.04	n/a	Not screened	n/a	
Sulphur (total)	mg/kg	A-T-024s				86	152	138	225	373	112	<50														<LOD	373	n/a	Not screened	n/a	
Total Organic Carbon	% w/w	A-T-032s				1.2	0.82			1.82	0.15	0.18														0.15	1.82	n/a	Not screened	n/a	
Organic matter	% w/w	A-T-032 OM	3.7	1.6	2.3								3.2	0.7	2.3	0.3	2.2	0.5	3.1	<0.1	2.7	0.2	4.4	0.8	0.4	<LOD	4.4	n/a	Not screened	n/a	
Metals																															
Arsenic	mg/kg	A-T-024s	19	17	4	8	19	13	<1	7	6	6	7	4	6	12	10	21	8	10	11	14	10	11	12	<LOD	21	640	AECOM (modified LQM/CIE	0	
Barium	mg/kg	A-T-024s				36	99	68	54	49	45	44														36	99	22100	AECOM (modified EIC)	0	
Beryllium	mg/kg	A-T-024s				<1	1	<1	1	<1	<1	<1														<LOD	1	12	AECOM (modified LQM/CIE	0	
Boron (water soluble)	mg/kg	A-T-027s				<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0														<LOD	<LOD	240000	AECOM (modified LQM/CIE	0	
Cadmium	mg/kg	A-T-024s	1.6	<0.5	<0.5	0.7	1.3	0.9	1.8	1.1	0.9	0.8	0.9	0.8	0.9	1.2	1	1.4	0.5	<0.5	0.7	0.8	0.7	0.6	<0.5	<LOD	1.8	190	AECOM (modified LQM/CIE	0	
Copper	mg/kg	A-T-024s	21	11	3	31	18	13	17	11	18	17	11	5	9	16	13	19	12	7	13	13	14	8	9	3	31	68000	AECOM (modified LQM/CIE	0	
Chromium	mg/kg	A-T-024s	24	20	19	18	29	26	18	32	22	15	46	38	41	46	62	59	12	7	17	16	19	13	10	7	62	8600	AECOM (modified LQM/CIE	0	
Iron	mg/kg	A-T-024s				24100	42000	22900	27300	14200	14700	13200														13200	42000	820000	USEPA RSL (June 2017)	0	
Lead	mg/kg	A-T-024s	44	23	12	12	30	16	216	27	8	6	17	8	18	9	12	6	13	8	16	13	21	9	9	6	216	2300	Defra C4SL 12/2014	0	
Mercury	mg/kg	A-T-024s	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	0.18	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<LOD	0.18	1100	AECOM (modified LQM/CIE	0	
Nickel	mg/kg	A-T-024s	17	16	12	23	39	23	16	15	17	15	20	21	18	30	28	23	6	7	10	14	8	11	9	6	39	980	AECOM (modified LQM/CIE	0	
Selenium	mg/kg	A-T-024s	2	2	<1	2	<1	1	<1	2	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<LOD	2	12000	AECOM (modified LQM/CIE	0	
Vanadium	mg/kg	A-T-024s				22	26	25	18	50	33	27														18	50	9000	AECOM (modified LQM/CIE	0	
Zinc	mg/kg	A-T-024s	65	19	23	61	77	40	106	38	24	24	30	21	35	41	24	19	31	21	44	40	49	37	27	19	106	730000	AECOM (modified LQM/CIE	0	
PAH 16																															
Acenaphthene	mg/kg	A-T-019s	0.02	<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	<LOD	0.05	71000	AECOM (modified LQM/CIE	0	
Acenaphthylene	mg/kg	A-T-019s	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.18	<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	<LOD	0.18	72000	AECOM (modified LQM/CIE	0	
Anthracene	mg/kg	A-T-019s	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	0.62	<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	<LOD	0.62	520000	AECOM (modified LQM/CIE	0	
Benzo(a)anthracene	mg/kg	A-T-019s	0.13	<0.04	<0.04	<0.04	<0.04	<0.04	2.32	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<LOD	2.32	170	AECOM (modified LQM/CIE	0	
Benzo(a)pyrene	mg/kg	A-T-019s	0.09	<0.04	<0.04	<0.04	<0.04	<0.04	2.79	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<LOD	2.79	35	AECOM (modified LQM/CIE	0	
Benzo(b)fluoranthene	mg/kg	A-T-019s	0.14	<0.05	<0.05	<0.05	<0.05	<0.05	3.09	<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	<0.05	<0.05	<0.05	<LOD	3.09	45	AECOM (modified LQM/CIE	0	
Benzo(ghi)perylene	mg/kg	A-T-019s	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.11	<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	<LOD	2.11	3900	AECOM (modified LQM/CIE	0	
Benzo(k)fluoranthene	mg/kg	A-T-019s	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	1.27	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<LOD	1.27	1200	LQM/CIEH S4ULs 2014	0	
Chrysene	mg/kg	A-T-019s	0.14	<0.06	<0.06	<0.06	<0.06	<0.06	2.64	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<LOD	2.64	350	LQM/CIEH S4ULs 2014	0	
Dibenzo(ah)anthracene	mg/kg	A-T-019s	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.43	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<LOD	0.43	3.5	AECOM (modified LQM/CIE	0	
Fluoranthene	mg/kg	A-T-019s	0.23	<0.08	<0.08	<0.08	<0.08	<0.08	4.23	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<LOD	4.23	23000	LQM/CIEH S4ULs 2014	0	
Fluorene	mg/kg	A-T-019s	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.14	<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	<LOD	0.14	59000	LQM/CIEH S4ULs 2014	0	
Indeno(123-cd)pyrene	mg/kg	A-T-019s	0.06	<0.03	<0.03	<0.03	<0.03	<0.03	2.35	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<LOD	2.35	510	LQM/CIEH S4ULs 2014	0	
Naphthalene	mg/kg	A-T-019s	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<LOD	<LOD	90	LQM/CIEH S4ULs 2014	0	
Phenanthrene	mg/kg	A-T-019s	0.16	<0.03	<0.03	<0.03	<0.03	<0.03	1.82	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<LOD	1.82	22000	LQM/CIEH S4ULs 2014	0	
Pyrene	mg/kg	A-T-019s	0.21	<0.07	<0.07	<0.07	<0.07	<0.07	4	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07	<LOD	4	54000	LQM/CIEH S4ULs 2014	0	
PAH (total 16)	mg/kg	A-T-019s	1.24	<0.08	<0.08	<0.08	<0.08	<0.08	28.1	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<LOD	28.1	1E+17	No Screening Value	0	
TPH Banded 1 with ID																															
>C6-C8	mg/kg	A-T-007s											<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<LOD	<LOD	10	LOD	0	
>C8-C10	mg/kg	A-T-007s											<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<LOD	<LOD	10	LOD	0	
>C10-C12	mg/kg	A-T-007s											<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<LOD	<LOD	10	LOD	0	
>C12-C16	mg/kg	A-T-007s											<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<LOD	<LOD	10	LOD	0	
>C16-C21	mg/kg	A-T-007s											<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<LOD	<LOD	10	LOD	0	
>C21-C40	mg/kg	A-T-007s											<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<LOD	<LOD	10	LOD	0	
TPH Total (sum of bands) (>C6-C40)	mg/kg	A-T-007s											<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<LOD	<LOD	10	LOD	0	
TPH CWG																															
Ali >C5-C6	mg/kg	A-T-022s	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01																	<LOD	<LOD	2000	AECOM (modified LQM/CIE	0	
Ali >C6-C8	mg/kg	A-T-022s	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01																	<LOD	<LOD	4300	AECOM (modified LQM/CIE	0	
Ali >C8-C10	mg/kg	A-T-022s	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01																	<LOD	<LOD	1000	AECOM (modified LQM/CIE	0	
Ali >C10-C12	mg/kg	A-T-023s	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1																	<LOD	<LOD	5000	AECOM (modified LQM/CIE	0	
Ali >C12-C16	mg/kg	A-T-023s	<0.1	<0.1	<0.1	<0.1		<0.1	0.3																	<LOD	0.3	37000	AECOM (modified LQM/CIE	0	
Ali >C16-C21	mg/kg	A-T-023s	<0.1	<0.1	<0.1	<0.1		<0.1	1.3																	<LOD	1.3	1400000	AECOM (modified LQM/CIE	0	
Ali >C21-C35	mg/kg	A-T-023s	<0.1	<0.1	<0.1	<0.1		<0.1	1																	<LOD	1	1400000	AECOM (modified LQM/CIE	0	
Total Aliphatics	mg/kg	A-T-022+23s	<0.1	<0.1	<0.1	<0.1		<0.1	2.8																	<LOD	2.8	1000	AECOM (modified LQM/CIE	0	
Aro >C5-C7	mg/kg	A-T-022s	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01																	<LOD	<LOD	12000	AECOM (modified LQM/CIE	0	
Aro >C7-C8	mg/kg	A-T-022s	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01																	<LOD	<LOD	28000	AECOM (modified LQM/CIE	0	
Aro >C8-C9	mg/kg	A-T-022s	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01																	<LOD	<LOD	1800	AECOM (modified LQM/CIE	0	
Aro >C9-C10	mg/kg	A-T-022s	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01																	<LOD	<LOD	1800	AECOM (modified LQM/CIE	0	
Aro >C10-C12	mg/kg	A-T-023s	<0.1	<0.1	<0.1	<0.1		<0.1	<0.1																	<LOD	<LOD	9100	AECOM (modified LQM/CIE	0	
Aro >C12-C16	mg/kg	A-T-023s	<0.1	<0.1	<0.1	<0.1		<0.1	0.4																	<LOD	0.4	34000	AECOM (modified LQM/CIE	0	
Aro >C16-C21	mg/kg	A-T-023s	<0.1	<0.1	<0.1	<0.1		<0.1	8																	<LOD	8	28000	AECOM (modified LQM/CIE	0	
Aro >C21-C35	mg/kg	A-T-023s	<0.1	<0.1	<0.1	<0.1		<0.1	29.6																	<LOD	29.6	28000	AECOM (modified LQM/CIE	0	
Total Aromatics	mg/kg	A-T-022+23s	<0.1	<0.1	<0.1	<0.1		<0.1	37.9																	<LOD	37.9	1800	AECOM (modified LQM/CIE	0	
TPH (Ali & Aro)	mg/kg	A-T-022+23s	<0.1	<0.1	<0.1	<0.1		<0.1	40.6																	<LOD	40.6	1800	AECOM (modified LQM/CIE	0	
BTEX - Benzene	mg/kg	A-T-022s	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01																	<LOD	<LOD	12	AECOM (modified LQM/CIE	0	
BTEX - Toluene	mg/kg	A-T-022s	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01																	<LOD	<LOD	28000	AECOM (modified LQM/CIE	0	
BTEX - Ethyl Benzene	mg/kg	A-T-022s	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01																	<LOD	<LOD	2700	AECOM (modified LQM/CIE	0	
BTEX - m & p Xylene	mg/kg	A-T-022s	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01																	<LOD	<LOD	2700	AECOM (modified LQM/CIE	0	
BTEX - o Xylene	mg/kg	A-T-022s	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01																	<LOD	<LOD	3100	AECOM (modified LQM/CIE	0	
MTBE	mg/kg	A-T-022s	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01																	<LOD	<LOD	3340	AECOM (modified EIC)	0	
SVOC																															
Hexachlorobenzene	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	86000	AECOM (modified LQM/CIE	0	
Diethyl phthalate	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	100	LOD	0	
Dimethyl phthalate	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	100	LOD	0	
Dibenzofuran	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	1000000	USEPA RSL (June 2017)	0	
Carbazole	µg/kg	A-T-052s	<100	<100	<100	<100		<100	271																	<LOD	271	100	LOD	1	
Butylbenzyl phthalate	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	100	LOD	0	
Bis(2-ethylhexyl)phthalate	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	100	LOD	0	
Bis(2-chloroethoxy)methane	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	100	LOD	0	
Bis(2-chloroethyl)ether	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	1000	USEPA RSL (June 2017)	0	
4-Nitrophenol	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	100	LOD	0	
4-Methylphenol	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	82000000	USEPA RSL (June 2017)	0	
4-Chloro-3-methylphenol	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	82000000	USEPA RSL (June 2017)	0	
2-Nitrophenol	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	100	LOD	0	
2-Methylphenol	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	41000000	USEPA RSL (June 2017)	0	
2-Chlorophenol	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	5800000	USEPA RSL (June 2017)	0	
2,6-Dinitrotoluene	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	1850000	AECOM (modified EIC)	0	
2,4-Dinitrotoluene	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	3740000	USEPA RSL (June 2017)	0	
2,4-Dimethylphenol	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	490000	USEPA RSL (June 2017)	0	
2,4-Dichlorophenol	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	2500000	USEPA RSL (June 2017)	0	
2,4,6-Trichlorophenol	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	210000	USEPA RSL (June 2017)	0	
2,4,5-Trichlorophenol	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	82000000	USEPA RSL (June 2017)	0	
2-Chloronaphthalene	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	187000	AECOM (modified EIC)	0	
2-Methylnaphthalene	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	3000000	USEPA RSL (June 2017)	0	
Bis(2-chloroisopropyl)ether	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	100	LOD	0	
Phenol	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	100	LOD	0	
Pentachlorophenol	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	400000	AECOM (modified LQM/CIE	0	
n-Nitroso-n-dipropylamine	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	100	LOD	0	
n-Dioctylphthalate	µg/kg	A-T-052s	<100	<100	<100	<100		<100	238																	<LOD	238	89100000	AECOM (modified EIC)	0	
n-Dibutylphthalate	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	100	LOD	0	
Nitrobenzene	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	22000	USEPA RSL (June 2017)	0	
Isophorone	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	2400000	USEPA RSL (June 2017)	0	
Hexachloroethane	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	9990	USEPA RSL (June 2017)	0	

Soils Contamination Assessment - Onshore GI																															
Lab Sample ID			16/01468/2	16/01344/2	16/01344/6	16/01093/1	16/01093/3	16/00674/2	16/00674/5	17/01217/2	17/01217/3	17/01217/4	17/01826/1	17/01826/2	17/01826/3	17/01826/4	17/01826/5	17/01826/6	17/01826/7	17/01826/9	17/01826/10	17/01826/11	17/01826/13	17/01826/14	17/01826/15					
Client Sample No			102	102	102	101	103	102	3	2	3	4	1	2	1	2	1	2	1	4	1	2	1	2	6					
Client Sample ID			BH1	BH2	BH3	BH4	BH4	BH5	BH6	BH101	BH101	BH101	TP101	TP101	TP102	TP102	TP103	TP103	TP201	TP201	TP202	TP202	TP203	TP203	TP203					
Depth of Sample			0.30	0.30	0.30	0.10	0.50	0.30	0.30	0.20	0.50	1.00	0.20	0.50	0.20	0.50	0.20	0.50	0.20	1.00	0.20	0.50	0.20	0.50	1.00					
GI Phase			1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2					
Date Sampled			04-Mar-16	02-Mar-16	23-Feb-16	15-Feb-16	15-Feb-16	01-Feb-16	02-Feb-16	15-Feb-17	15-Feb-17	15-Feb-17	16-Feb-17	16-Feb-17	15-Feb-17	15-Feb-17	16-Feb-17	16-Feb-17	15-Feb-17	15-Feb-17	15-Feb-17	15-Feb-17	15-Feb-17	15-Feb-17	15-Feb-17					
Strata Logs																															
Description																										**Min**	**Max**	**Screening Value**	**Screening Value Source (HH Soil. Commercial/Industrial. Sand. TOC >=0.58 to <1.45%)**	**Exceedances**
Hexachlorocyclopentadiene	µg/kg	A-T-052s	<100	<100	<100	<100		<100	<100																	<LOD	<LOD	7500	USEPA RSL (June 2017)	0
Perylene	µg/kg	A-T-052s	<100	<100	<100	<100		<100	1040																	<LOD	1040	100	LOD	1
VOC																														0
Dichlorodifluoromethane	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	370000	USEPA RSL (June 2017)	0
Chloromethane	µg/kg	A-T-006s	<10	<10	<10	<10		<10	<10																	<LOD	<LOD	480	AECOM (modified EIC)	0
Vinyl Chloride	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	31	AECOM (modified LQM/CIE	0
Bromomethane	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	30000	USEPA RSL (June 2017)	0
Chloroethane	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	463000	AECOM (modified EIC)	0
Trichlorofluoromethane	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	350000000	USEPA RSL (June 2017)	0
1,1-Dichloroethene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	12600	AECOM (modified EIC)	0
Carbon Disulphide	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	1	LOD	0
Dichloromethane	µg/kg	A-T-006s	<5	<5	<5	<5		<5	<5																	<LOD	<LOD	5	LOD	0
trans 1,2-Dichloroethene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	1	LOD	0
1,1-Dichloroethane	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	122000	AECOM (modified EIC)	0
cis 1,2-Dichloroethene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	1	LOD	0
2,2-Dichloropropane	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	1	LOD	0
Bromochloromethane	µg/kg	A-T-006s	<5	<5	<5	<5		<5	<5																	<LOD	<LOD	630000	USEPA RSL (June 2017)	0
Chloroform	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	44000	AECOM (modified LQM/CIE	0
1,1,1-Trichloroethane	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	310000	AECOM (modified LQM/CIE	0
1,1-Dichloropropene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	1	LOD	0
Carbon Tetrachloride	µg/kg	A-T-006s	<1	6	5	<1		<1	<1																	<LOD	6	1400	AECOM (modified LQM/CIE	0
1,2-Dichloroethane	µg/kg	A-T-006s	<2	<2	<2	<2		<2	<2																	<LOD	<LOD	280	AECOM (modified LQM/CIE	0
Benzene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	1	LOD	0
Trichloroethene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	570	AECOM (modified LQM/CIE	0
1,2-Dichloropropane	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	1430	AECOM (modified EIC)	0
Dibromomethane	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	99000	USEPA RSL (June 2017)	0
Bromodichloromethane	µg/kg	A-T-006s	<10	<10	<10	<10		<10	<10																	<LOD	<LOD	1300	USEPA RSL (June 2017)	0
cis 1,3-Dichloropropene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	1	LOD	0
Toluene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	1	LOD	0
trans 1,3-Dichloropropene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	1	LOD	0
1,1,2-Trichloroethane	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	42500	AECOM (modified EIC)	0
1,3-Dichloropropane	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	23000000	USEPA RSL (June 2017)	0
Tetrachloroethene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	8600	AECOM (modified LQM/CIE	0
Dibromochloromethane	µg/kg	A-T-006s	<3	<3	<3	<3		<3	<3																	<LOD	<LOD	3	LOD	0
1,2-Dibromoethane	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	160	USEPA RSL (June 2017)	0
Chlorobenzene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	26000	AECOM (modified LQM/CIE	0
1,1,1,2-Tetrachloroethane	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	49000	AECOM (modified LQM/CIE	0
Ethylbenzene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	2700000	AECOM (modified LQM/CIE	0
m & p Xylene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	1	LOD	0
o-Xylene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	1	LOD	0
Styrene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	1660000	AECOM (modified EIC)	0
Bromoform	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	347000	AECOM (modified EIC)	0
Isopropylbenzene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	632000	AECOM (modified EIC)	0
1,1,2,2-Tetrachloroethane	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	120000	AECOM (modified LQM/CIE	0
1,2,3-Trichloropropane	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	110	USEPA RSL (June 2017)	0
Bromobenzene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	44700	AECOM (modified EIC)	0
n-Propylbenzene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	1880000	AECOM (modified EIC)	0
2-Chlorotoluene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	23000000	USEPA RSL (June 2017)	0
1,3,5-Trimethylbenzene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	1500000	USEPA RSL (June 2017)	0
4-Chlorotoluene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	23000000	USEPA RSL (June 2017)	0
tert-Butylbenzene	µg/kg	A-T-006s	<2	<2	<2	<2		<2	<2																	<LOD	<LOD	120000000	USEPA RSL (June 2017)	0
1,2,4-Trimethylbenzene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	19200	AECOM (modified EIC)	0
sec-Butylbenzene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	120000000	USEPA RSL (June 2017)	0
4-Isopropyltoluene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	1	LOD	0
1,3-Dichlorobenzene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	14000	AECOM (modified LQM/CIE	0
1,4-Dichlorobenzene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	2000000	AECOM (modified LQM/CIE	0
n-Butylbenzene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	58000000	USEPA RSL (June 2017)	0
1,2-Dichlorobenzene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	930000	AECOM (modified LQM/CIE	0
1,2-Dibromo-3-chloropropane	µg/kg	A-T-006s	<2	<2	<2	<2		<2	<2																	<LOD	<LOD	64	USEPA RSL (June 2017)	0
1,2,4-Trichlorobenzene	µg/kg	A-T-006s	<3	<3	<3	<3		<3	<3																	<LOD	<LOD	98000	AECOM (modified LQM/CIE	0
Hexachlorobutadiene	µg/kg	A-T-006s	<1	<1	<1	<1		<1	<1																	<LOD	<LOD	14000	AECOM (modified LQM/CIE	0
1,2,3-Trichlorobenzene	µg/kg	A-T-006s	<3	<3	<3	<3		<3	<3																	<LOD	<LOD	46000	AECOM (modified LQM/CIE	0
Asbestos in Soil (inc. matrix)																														
Asbestos in soil		A-T-045				NAD		NAD	NAD	NAD	NAD	NAD														<LOD	<LOD	LOD	LOD	6
Asbestos ACM - Suitable for Water Absorption Test?		Gravimetry				N/A		N/A	N/A	N/A	N/A	N/A														<LOD	<LOD	LOD	LOD	6