



The Sizewell C Project

6.3 Volume 2 Main Development Site Chapter 18 Geology and Land Quality Appendix 18A Phase 2 Geo-environmental Interpretative Report Part 9 of 11

Revision: 1.0
Applicable Regulation: Regulation 5(2)(a)
PINS Reference Number: EN010012

May 2020

Planning Act 2008
Infrastructure Planning (Applications: Prescribed
Forms and Procedure) Regulations 2009



NOT PROTECTIVELY MARKED

Appendix F – Ground Investigation Factual Reports

On-shore Investigations Phase 1 for Sizewell Site 2011

CONTINUED

NOT PROTECTIVELY MARKED



Trial Pit 22 Face A



Trial Pit 22 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 31
--------	--	-------------



Trial Pit 22 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 32
--------	---	-------------

Photographs



Trial Pit 23 Face A



Trial Pit 23 Face D

Notes:	<p>Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE</p> <p>Project No. A0012-10</p> <p>Carried out for NNB Generation Company Limited</p>	<p>Plate 33</p>
--------	---	-----------------

Photographs



Trial Pit 23 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 34
--------	--	----------

Photographs



Soil Mechanics



Trial Pit 25 Face A



Trial Pit 25 Face D

Notes:	<p>Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE</p> <p>Project No. A0012-10</p> <p>Carried out for NNB Generation Company Limited</p>	<p>Plate 35</p>
--------	---	-----------------



Trial Pit 25 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 36
--------	---	-------------

Photographs



Soil Mechanics



Trial Pit 26 Face A



Trial Pit 26 Face D

Notes:	<p>Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE</p> <p>Project No. A0012-10</p> <p>Carried out for NNB Generation Company Limited</p>	<p>Plate 37</p>
--------	---	-----------------



Trial Pit 26 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 38
--------	---	-----------------

Photographs



Soil Mechanics



Trial Pit 27 Face A



Trial Pit 27 Face D

Notes:	<p>Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE</p> <p>Project No. A0012-10</p> <p>Carried out for NNB Generation Company Limited</p>	<p>Plate 39</p>
--------	---	-----------------



Trial Pit 27 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 40
--------	--	----------

Photographs



Soil Mechanics



Trial Pit 28 Face D



Trial Pit 28 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate <p style="text-align: center;">41</p>
--------	---	--

Photographs



Soil Mechanics



Trial Pit 29 Face A



Trial Pit 29 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate <p style="text-align: center;">42</p>
--------	---	---



Trial Pit 29 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 43
--------	--	----------

Photographs



Soil Mechanics



Trial Pit 30 Face A



Trial Pit 30 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 44
--------	---	-----------------



Trial Pit 30 Spoil

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Plate

45

Photographs



Soil Mechanics



Trial Pit 33 Face A



Trial Pit 33 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 46
--------	--	----------



Trial Pit 33 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 47
--------	--	----------

Photographs



Soil Mechanics



Trial Pit 34 Face A



Trial Pit 34 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 48
--------	---	--------------------



Trial Pit 34 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 49
--------	---	-------------

Photographs



Soil Mechanics



Trial Pit 35 Face A



Trial Pit 35 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 50
--------	---	--------------------



Trial Pit 35 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 51
--------	---	-----------------

Photographs



Soil Mechanics



Trial Pit 38 Face A



Trial Pit 38 Face D

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Plate

52



Trial Pit 38 Spoil

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Plate

53

Photographs



Soil Mechanics



Trial Pit 39 Face A



Trial Pit 39 Face D

<p>Notes:</p>	<p>Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited</p>	<p>Plate 54</p>
---------------	---	--------------------------



Trial Pit 39 Spoil

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Plate

55



Trial Pit 40 Face A



Trial Pit 40 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 56
--------	---	-------------

Photographs



Trial Pit 40 Spoil

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Plate

57



Trial Pit 41 Face A



Trial Pit 41 Face D

<p>Notes:</p>	<p>Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited</p>	<p>Plate 58</p>
---------------	---	-----------------



Trial Pit 41 Spoil

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Plate

59

Photographs



Soil Mechanics



Trial Pit 42 Face A



Trial Pit 42 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 60
--------	---	-------------



Trial Pit 42 Spoil

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Plate

61

Photographs



Soil Mechanics



Trial Pit 43 Face A



Trial Pit 43 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 62
--------	---	-------------



Trial Pit 43 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 63
--------	---	-----------------



Trial Pit 44 Face A

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Plate

64

Photographs



Soil Mechanics



Trial Pit 45A Face D



Trial Pit 45A Spoil

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Plate

65



Trial Pit 46 Face D



Trial Pit 46 Spoil

<p>Notes:</p>	<p>Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited</p>	<p>Plate 66</p>
---------------	--	--------------------------------

Photographs



Soil Mechanics



Trial Pit 47 Face A



Trial Pit 47 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 67
--------	---	-------------



Trial Pit 47 Spoil

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Plate

68

Photographs



Trial Pit 48 Face A



Trial Pit 48 Face D

Notes:	<p>Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE</p> <p>Project No. A0012-10</p> <p>Carried out for NNB Generation Company Limited</p>	Plate 69
--------	---	----------



Trial Pit 48 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 70
--------	---	-----------------

Photographs



Soil Mechanics



Trial Pit 51 Face D

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Plate

71

Photographs



Trial Pit 52 Face A



Trial Pit 52 Face D

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Plate

72



Trial Pit 52 Spoil

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Plate

73

Photographs



Soil Mechanics



Trial Pit 53 Face A



Trial Pit 53 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 74
--------	---	-----------------



Trial Pit 53 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 75
--------	---	-------------

Photographs



Soil Mechanics



Trial Pit 55 Face A



Trial Pit 55 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 76
--------	---	-----------------

Photographs



Trial Pit 55 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 77
--------	---	-----------------

Photographs



Trial Pit 56 Face A



Trial Pit 56 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 78
--------	---	-----------------



Trial Pit 56 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 79
--------	---	-------------

Photographs



Soil Mechanics



Trial Pit 57 Face A



Trial Pit 57 Face D

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Plate

80

Photographs



Trial Pit 57 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 81
--------	--	----------



Trial Pit 58 Face A



Trial Pit 58 Face D

<p>Notes:</p>	<p>Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited</p>	<p>Plate 82</p>
---------------	--	--------------------------------



Trial Pit 58 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 83
--------	--	----------

Photographs



Soil Mechanics



Trial Pit 65 Face A



Trial Pit 65 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 84
--------	---	-------------



Trial Pit 65 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 85
--------	--	----------



Trial Pit 66 Face A



Trial Pit 66 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 86
--------	--	-------------

Photographs



Soil Mechanics



Trial Pit 66 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 87
--------	---	--------------------



Trial Pit 67 Face A



Trial Pit 67 Face D

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No. A0012-10
 Carried out for NNB Generation Company Limited

Plate

88



Trial Pit 67 Spoil

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Plate

89

Photographs



Soil Mechanics



Trial Pit 68 Face A



Trial Pit 68 Face D

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Plate

90

Photographs



Soil Mechanics



Trial Pit 68 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 91
--------	---	--------------------

Photographs



Soil Mechanics



Trial Pit 69 Face A



Trial Pit 69 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 92
--------	---	-------------



Trial Pit 69 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 93
--------	---	-----------------

Photographs



Soil Mechanics



Trial Pit 70 Face A



Trial Pit 70 Face D

Notes:	<p>Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE</p> <p>Project No. A0012-10</p> <p>Carried out for NNB Generation Company Limited</p>	<p>Plate 94</p>
--------	---	-----------------



Trial Pit 70 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 95
--------	---	-------------

Photographs



Soil Mechanics



Trial Pit 71 Face A



Trial Pit 71 Face D

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Plate

96

Photographs



Soil Mechanics



Trial Pit 71 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 97
--------	---	-----------------

Photographs



Soil Mechanics



Trial Pit 72 Face A



Trial Pit 72 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 98
--------	---	-----------------



Trial Pit 72 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 99
--------	---	-------------

Photographs



Soil Mechanics



Trial Pit 73 Face A



Trial Pit 73 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 100
--------	--	-----------

Photographs



Soil Mechanics



Trial Pit 73 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 101
--------	---	------------------

Photographs



Soil Mechanics



Trial Pit 74 Face A



Trial Pit 74 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 102
--------	--	--------------



Trial Pit 74 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 103
--------	--	-----------

Photographs



Soil Mechanics



Trial Pit 75 Face A



Trial Pit 75 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 104
--------	---	---------------------



Trial Pit 75 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 105
--------	---	------------------

Photographs



Soil Mechanics



Trial Pit 76 Face A



Trial Pit 76 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 106
--------	---	------------------



Trial Pit 76 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 107
--------	---	------------------

Photographs



Soil Mechanics



Trial Pit 2009_14 Face A



Trial Pit 2009_14 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 108
--------	---	------------------



Trial Pit 2009_14 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 109
--------	--	-----------

Photographs



Soil Mechanics



Trial Pit 2009_15 Face A



Trial Pit 2009_15 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 110
--------	---	------------------

Photographs



Soil Mechanics



Trial Pit 2009_15 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 111
--------	---	------------------

Photographs



Soil Mechanics



Trial Pit 2009_16 Face A



Trial Pit 2009_14 Face D

Notes:	<p>Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE</p> <p>Project No. A0012-10</p> <p>Carried out for NNB Generation Company Limited</p>	<p>Plate 112</p>
--------	---	------------------



Trial Pit 2009_16 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 113
--------	---	--------------

Photographs



Soil Mechanics



Trial Pit 2009_17 Face A



Trial Pit 2009_17 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 114
--------	---	------------------



Trial Pit 2009_17 Spoil

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Plate

115

Photographs



Soil Mechanics



Trial Pit N1 Face A



Trial Pit N1 Face D

Notes:	<p>Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE</p> <p>Project No. A0012-10</p> <p>Carried out for NNB Generation Company Limited</p>	<p>Plate 116</p>
--------	---	------------------

Photographs



Soil Mechanics



Trial Pit N1 Spoil

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Plate

117

Photographs



Trial Pit N2 Face A



Trial Pit N2 Face D

Notes:	<p>Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE</p> <p>Project No. A0012-10</p> <p>Carried out for NNB Generation Company Limited</p>	<p>Plate 118</p>
--------	---	------------------

Photographs



Trial Pit N2 Spoil

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Plate

119

Photographs



Trial Pit N3 Face A



Trial Pit N3 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 120
--------	---	--------------



Trial Pit N3 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 121
--------	--	-----------

Photographs



Soil Mechanics



Trial Pit N4 Face A



Trial Pit N4 Face D

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 122
--------	---	------------------

Photographs



Trial Pit N4 Spoil

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Plate 123
--------	--	-----------

Report No A0012-10/6

ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE

FACTUAL REPORT ON GROUND INVESTIGATION

**VOLUME 6 : COMPREHENSIVE AND DATA
INTEGRATION REPORT**

Carried out for: NNB Generation Company Limited

August 2011

Soil Mechanics
Askern Road, Carcroft,
Doncaster, South Yorkshire, DN6 8DG, UK
Tel: +44 (0) 1302 723456 Fax: +44 (0) 1302 725240
email: sm.doncaster@esgl.co.uk

Soil Mechanics part of Environmental Scientifics Group

ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE

FACTUAL REPORT ON GROUND INVESTIGATION

VOLUME 6: COMPREHENSIVE AND DATA INTEGRATION REPORT

Report No: A0012-10/6

Date: August 2011

Employer:

**NNB Generation Company Limited
40 Grosvenor Place
Victoria
London
SW1X 7EN**

Issue No	Date	Details
1	August 2011	Report as submitted

The title to this report is vested in the Employer named but title to copyright is retained. The Contracts (Rights of Third Parties) Act 1999 does not apply to the contract with the Employer and the provisions of the said Act are hereby excluded.

REPORT STRUCTURE

VOLUME NO	TITLE	REPORT NO
1	TEXT, MONITORING AND DRAWINGS	A0012-10/1
2A	EXPLORATORY HOLE RECORDS: 1:25 SCALE BOREHOLE LOGS	A0012-10/2A
2B	EXPLORATORY HOLE RECORDS: 1:25 SCALE BOREHOLE AND TRIAL PIT LOGS 1:100 SCALE BOREHOLE LOGS SPLIT TUBE SAMPLE DESCRIPTIONS DISCONTINUITY LOGS	A0012-10/2B
3A	IN SITU TESTING: DRILLING PARAMETER RESULTS MENARD PRESSUREMETER TESTING	A0012-10/3A
3B	IN SITU TESTING: CONE PENETRATION TESTING GEOPHYSICAL TESTING PUMPING TEST	A0012-10/3B
3C	IN SITU TESTING: SELF BORING PRESSUREMETER TESTING	A0012-10/3C
4	GEOTECHNICAL LABORATORY TESTING	A0012-10/4
5	PHOTOGRAPHS	A0012-10/5
6	COMPREHENSIVE AND DATA INTEGRATION REPORT	A0012-10/6

CONTENTS

		Page
1	INTRODUCTION	3
2	THE SITE AND GEOLOGY	3
	2.1 The Site	
	2.2 Published Geology	
3	STRATIGRAPHY	5
	3.1 General	
	3.2 Assessment of Stratigraphy	
	3.3 Comments on Stratigraphy	
4	MATERIAL PROPERTIES AND GEOTECHNICAL PARAMETERS	10
	4.1 General	
	4.2 Chalk	
	4.3 Lower London Tertiaries	
	4.4 London Clay	
	4.5 Crag Deposits	
	4.6 Recent Deposits	
	4.7 Made Ground	
5	GROUNDWATER	15
	REFERENCES	17
	TABLES	
	1 Summary of Strata	
	Summary of Material Properties	
	2 Made Ground	
	3 Recent Deposits	
	4 Crag Deposits	
	5 London Clay	
	6 Lower London Tertiaries	
	7 Chalk	
	FIGURES	
	Geological Cross Sections	
	1 Exploratory Hole Plan and Cross Section Locations	
	2 Summary Deep Geological Cross Section	
	3 Geological Cross Sections (Fig 3.1 to 3.9)	
	Contour Plots	
	4.1 Top of Recent Cohesive Deposits	
	4.2 Top of Crag Deposits (Fig 4.2 and 4.2A)	
	4.3 Top of London Clay	
	Isopachyte Plot	
	5 Recent Cohesive Deposits	

Material Parameter Plots

- 6 Particle Size Distribution Envelopes (plots for separate strata Fig 6.1 to 6.6)
- 7 Moisture Content and Atterberg Limits (summary plot of all strata Fig 7.1 and plots for separate strata Fig 7.2 to 7.6)
- 8 Plasticity Chart - All Strata
- 9 Particle Density – All Strata
- 10 Bulk and Dry Density – All Strata
- 11 Minimum and Maximum Dry Density – Crag Deposits
- 12 Shear Strength (Direct Shear) – Crag Deposits
- 13 Undrained Shear Strength (plots for Recent Deposits Fig 13.1 and London Clay 13.2)
- 14 Summary of Effective Stress Tests (plots for London Clay Fig 14.1 and Lower London Tertiaries 14.2)
- 15 Oedometer Interpretation – Recent Deposits
- 16 Oedometer Interpretation – London Clay and Lower London Tertiaries
- 17 Methylene Blue Value
- 18 SPT N value depth profile – Crag Deposits
- 19 Shear Modulus (SBP) – All Strata
- 20 Drained Strength Parameters (SBP) – Crag Deposits
- 21 Undrained Shear Strength (SBP) – London Clay and Lower London Tertiaries
- 22 Crosshole Seismic Test Results – All Strata
- 23 CPT Data Summary
- 24 Shear Modulus Summary
- 25 Undrained Shear Strength Summary – London Clay and Lower London Tertiaries
- 26 Drained Shear Strength Summary – Crag Deposits

- 27 Groundwater Elevation Variation Examples
- 28 Groundwater level Tidal Response
- 29 Piezometric Profile – Crag Deposits

- 30 Site Location Plan

ANNEXE

Pumping Test Interpretive Report

1 INTRODUCTION

During February 2010 Soil Mechanics (SM) were commissioned by EDF – DIN CEIDRE TEGG (EDF), on behalf of NNB Generation Company Limited (NNB), to carry out a ground investigation as part of the Onshore Investigations Phase 1 for Sizewell Site, Suffolk. The investigation was required to obtain geotechnical information for the proposed construction of the new Sizewell C Nuclear Power Station.

The scope of the investigation, which was specified by EDF, comprised cable percussion, rotary drilled and rotasonic boreholes, cone penetration testing, trial pits, in situ testing and laboratory testing. The factual fieldwork and laboratory test records are presented in Volumes 1 to 5 of the report, see Report Structure. This volume (Volume 6) presents an assessment of the data obtained from the investigation and the development of a geotechnical ground model. The results of previous ground investigations have not been considered in the current study.

2 THE SITE AND GEOLOGY

2.1 The Site

Sizewell power station is located in Suffolk, East Anglia, on the east coast adjoining the north Sea, and some 30 km south of Lowestoft. It is approximately 3 km north east of Leiston at National Grid reference TM 473 643, see Site Location Plan, Figure 30.

The proposed Sizewell C Power Station site is immediately to the north of the existing Sizewell B site, which has the original Sizewell A Magnox Station to its south. The investigation was carried out in three areas, as shown in Figure 30.

- main site area – on the north side of the existing Sizewell B site
- northern woodland area – the east-west corridor north of 264500 mN
- Greater Gabbard area – to the south west of the existing Sizewell B site

The majority of the investigation was concentrated at the main site area. This comprises three fields of rough grassland, with small areas of woodland and scrub, approximately 600 m by 600 m in area. The topography is generally flat at an elevation of less than 5 mOD. The site is separated from the North Sea coastline by a bund some 6 m high. To the north and west are various water courses and bodies, including nature reserves, beyond which the ground rises to approximately

10 mOD. The landscape of the main site area is essentially man-made resulting from stockpiling and subsequent reprofiling of material excavated during construction of the Sizewell B power station during the 1990s. The sea bund is known to include man-made materials, such as concrete.

The northern woodland area comprises a 2 km long, south-west to north-east, corridor intended as the access route for construction traffic. This passes through predominantly woodland over natural ground at an elevation of about 10 mOD. The Greater Gabbard site comprises an approximately circular area 300 m in diameter to the south.

2.2 Published Geology

The published geological map covering the site, BGS Sheet 191 (1996), shows the underlying sequence of strata to comprise the following:

SUMMARY OF STRATA

UNIT	FORMATION	AGE		REMARKS
Made Ground				Placed as part of construction of Sizewell B power station
Marine Deposits (Tidal flats – mud)		Quaternary	Holocene	Referred to as Recent Deposits in this report.
Crag Group			Plio-Pleistocene	
Thames Group	London Clay Formation	Tertiary	Paleocene-Eocene	Referred to collectively as Lower London Tertiaries in this report.
	Harwich Formation			
Lambeth Group	Formerly Woolwich and Reading Beds			
Ormesby Clay Formation				
Chalk Group	Upper Chalk	Cretaceous		

Previous ground investigations have been carried out at the proposed Sizewell C site and also for the existing A and B sites. Reference to historic information was not required as part of this report.

3 STRATIGRAPHY

3.1 General

Descriptions of the strata encountered are given on the exploratory hole records contained in Volumes 2A and 2B of the report. Note that in the following discussion exploratory hole numbers have been abbreviated by not including the 2009 part of the reference, ie CBH 2009_1 is referred to as CBH 1, etc.

The following discussion relates to the main site area where the major part of the investigation was carried out.

3.2 Assessment of Stratigraphy

The downward succession encountered is in general agreement with the published geological information and is broadly uniform across the site, as summarised below.

SUMMARY OF GROUND CONDITIONS

STRATUM ENCOUNTERED (GEOLOGICAL UNIT)	STRATUM TOP (mOD)	THICKNESS (m) Average Range	REMARKS
Made Ground (including Topsoil)	Ground level	4.5 0 to 23.5	Stratum thickness variable due to previous site activities
Recent Deposits	-1.5 range 6 to -8	6.5 1 to 17	Stratum thickness variable and influenced by surface topography and depth to underlying Crag Deposits
Crag Deposits	-8 range 3 to -16	34 29 to 42	Stratum top variable, see contour plot
London Clay	-43 range -40 to -45	13.5 10 to 19.5	Stratum top dipping to south-east overall
Lower London Tertiaries	-57 range -54 to -61	23.5 16.5 to 27	Stratum thickening slightly to east. Comprises sequence of upper clay layer (absent at some locations), sand layer and lower clay layer.
Chalk	-80 range -78 to -83	Not proved	Stratum top dipping slightly to east

Note: levels quoted to nearest 1 m, thickness to nearest 0.5 m

The vertical and lateral distribution of the geological units across the site are shown in the following drawings (see also Contents Page):

- Figure 2 : Summary Deep Geological Cross Section - for full thickness of strata penetrated
- Figure 3.1 to 3.5 : North - South Geological Cross Sections
- Figure 3.6 to 3.9 : Four West - East Geological Cross Sections
- Figure 4.1 to 4.3 : Contour Plots showing top of Recent Cohesive Deposits, Crag Deposits and London Clay
- Figure 5 : Isopachyte Drawing showing thickness of Recent Cohesive Deposits

The positions of the exploratory holes in the main site area are shown on the plan, Figure 1, which also includes the locations of the geological cross sections.

The accuracy of assessment of stratum boundary depths will differ for the various exploratory hole types used in the investigation, ranging from continuously sampled boreholes to open (destructively drilled) holes. While conventionally greater reliance would be placed on the continuously cored boreholes there were significant zones of core loss in some cases which make these less reliable than usual. Generally the assessment of stratum boundary depths has been made treating all exploratory holes equally, unless there is clear evidence to the contrary. In such cases this has been noted.

A simple statistical analysis was carried out on the stratum boundary depths below ground level, their corresponding Reduced Levels and the stratum thicknesses. Table 1 presents the minimum, maximum and average values for these together with their standard deviations. The reliability of this approach will be influenced by:

- the irregular distribution of exploratory holes across the site (ie not a simple grid arrangement), with average and standard deviations distorted by concentrations of holes in particular areas
- the accuracy of depth assessment in different hole types, as discussed above
- variation in the topography (for depths below ground level)
- actual geological structure (eg the dip of the surface of the Chalk)

The results of geophysical wireline logging (CBH series holes, MPM4 and 7, SD1 and 3) have also been referred to as a check on stratum boundary depths in these holes.

An assessment of the stratigraphy has been carried out by Fondasol for the MPM and DBH series boreholes, using data obtained from drilling parameter monitoring (primarily penetration rate) and Menard pressuremeter tests, see Volume 3A. The drilling parameter data was considered by Fondasol to be a less reliable indicator of stratigraphy than CPT or sampled boreholes, and has not been used. However, the stratum boundary depths presented on the Fondasol borehole logs, which are based on driller's observations, have been included in the overall assessment.

3.3 Comments on Stratigraphy

3.3.1 Introduction

The full sequence of strata was encountered at three locations on the main site where boreholes were drilled to depths of 100 m or more:

- south west group - CBH 1, SD 1, MPM 1
- north west group - CBH 2, MPM 2, SBP 2, DBH 1 and DBH 2
- east group - CBH 8U, SD 3, MPM 13

The boreholes are shown schematically on the Summary Deep Geological Cross Section, Figure 2, which also includes the other three SBP series boreholes which penetrated to the top of the Chalk. The interpretation has assumed that stratigraphic boundaries below the top of the London Clay are planar between the three groups of holes.

Discussion of the stratigraphy commences with the deepest stratum, the Chalk.

3.3.2 Chalk

The level of the chalk boundary appears to be essentially flat, the variation in level between locations being no more than the variation between boreholes at any one location. However, taking the average values for the boreholes for each group, the boundary apparently dips slightly to the east, by about 1.5 m over nearly 400 m, which would be in agreement with the regional geological information.

3.3.2 Lower London Tertiaries

The strata between the Chalk and overlying London Clay, comprise deposits of the Lower London Tertiaries. The published geological information for the area shows these to be a downward sequence of deposits of the Harwich Group, Lambeth Group and Ormesby Clay Formation. However, clear differentiation of these units has not been possible and the strata have been collectively referred to as the Lower London Tertiaries.

The level of the top of the Lower London Tertiaries (ie its boundary with the overlying London Clay) is flat with no convincing evidence of slope between the three groups of holes penetrating to this depth. The average thickness is 25 m, apparently slightly thicker to the east where the top of the Chalk is slightly deeper.

The Lower London Tertiaries comprise both cohesive and granular facies. In general there is a sand layer overlying a clay layer. The boundary occurs at an average elevation of about -68.5 mOD, see Table 1.

The north west group and the isolated holes SBP 3 and SBP 4 encountered an upper clay layer above the sand layer. Subdivisions of the Lower London Tertiaries are also evident in the crosshole seismic profile obtained at the north west group. However, individual units do not readily correlate between boreholes and it is not possible to confirm the exact stratigraphic units within the Lower London Tertiaries; the soils have therefore been considered for convenience as an Upper and Lower Clay separated by a Sand.

3.3.3 London Clay

The top of the London Clay was revealed in approximately 40 boreholes. Overall the stratum surface drops by approximately 3.5 m from north-west to south-east across the site, see Contour Plot Fig 4.3, although this trend is not always apparent over shorter distances.

3.3.4 Crag Deposits

These were encountered in over 100 exploratory holes, including CPTs. The level of the stratum top is shown on the Contour Plots, Figure 4.2 (which includes all exploratory holes) and 4.2A (based on selected holes considered to be of greater reliability). These suggest some structure to the upper surface, taking the form of an asymmetric shallow trough with axis roughly aligned east-

west. At the southern edge of the main site the top of the Crag is most shallow reaching 0 mOD, and dips downwards to the north by up to 10 m. The central part of the site comprises a flatter area at around -10 mOD, to the north of this the surface rises gently to about -5 mOD. It should be noted that at the northern and southern edges of the site where the borehole information is sparser the contouring model is likely to be less reliable.

The thickness of the Crag, proved in over 40 holes, was found to vary by nearly 13 m, primarily due to the variation in the stratum top depth rather than the basal depth, as discussed above.

3.3.5 Recent Deposits

These comprise both cohesive and granular materials, together with organic soils including peat. Differentiation between the granular soils and the overlying Made Ground, where present, is generally difficult due to the origin of the Made Ground from nearby natural deposits. As such a clear distinction is only possible where the topography indicates a raised ground level (eg the sea bund at the eastern edge of the site), the presence of a buried relic topsoil, or inclusion of anthropogenic artefacts such as brick, concrete or metallic fragments, etc.

The cohesive and organic soils, collectively referred to here as Recent Cohesive Deposits, are clearly differentiated from the granular Made Ground. Considering all the exploratory holes, there appears to be much variation in the levels of the top and base of the Recent Cohesive Deposits, and also its thickness. However, many of these may be unreliable, as discussed previously. The CPTs are likely to provide the most reliable indication of boundary depths for this stratum, and were used, for example, to check the apparently deeper organic deposits suggested in DBH8 and 9. Based on these the top of the layer generally occurs between about -2 and -4 mOD, as shown on the Contour Plot, Figure 4.1.

The thickest part of the layer (where >6 m thick) generally corresponds to the trough forming the deepest part of the top of the Crag Deposits, see Isopachyte Plot Figure5.

3.3.6 Made Ground and Topsoil

The surface deposits are almost entirely granular in nature with occasional cohesive layers. A surfacing layer of concrete or macadam is present in areas of hardstanding forming parts of the operational power station site. A thin topsoil layer was separately identified where supporting significant growing vegetation.

4 MATERIAL PROPERTIES AND GEOTECHNICAL PARAMETERS

4.1 General

The strata encountered are discussed in the following section, commencing with the deepest, ie the Chalk layer. The results of in situ and laboratory testing carried out to determine geotechnical parameters are presented in other sections of the report as indicated in the Report Structure. The material properties obtained for each geological unit are summarised in Tables 2 to 7, see Contents. These include a simple statistical interpretation of the data to obtain the minimum, maximum, mean and standard deviation of each parameter where appropriate. Where results fall well outside the general range these have been excluded and noted accordingly. Plots of the parameters (either as parameter value against reduced level or other appropriate format) are presented as Figures following the Tables. These are listed on the Contents page and also cross-referenced on the relevant Material Properties Tables.

Summary plots of shear modulus, undrained shear strength and angle of friction, which have been obtained from a number of different laboratory and/or in situ test methods, are presented as Figures 24 to 26.

A statistical interpretation of the results of the Menard pressuremeter testing and drilling parameters is included in Volume 3A.

4.2 Chalk (Table 7)

Rotary core drilling was carried out into the Chalk in 8 of the 12 boreholes penetrating the stratum (see Table 1). The material was found to be variable in composition within and between the three groups of hole:

- south west group – the Chalk appears to be of poor strength
 - no core was recovered by Geobor S wireline drilling in CBH 1
 - Sonic coring in SD 1 recovered Chalk described as extremely weak to very weak, grade C3. However, the nature of the coring method is likely to have disturbed the material and the description of recovered core is not reliable.
- north west group – there was considerable variation in the quality of Chalk recovered from the three cored boreholes in this group, ranging from relatively competent A2 and A3 material in

the lower part of SBP 2, to structureless Dm and C1 to C5 material in DBH1. A change in density is indicated at around 107 m in the geo-logging carried out within the plastic liner installed in SBP 2, however, this is not reflected by material variation revealed by the core recovered and may be a function of the installation. The crosshole seismic testing shows no clear S or P-wave velocity variation.

- east group – again there was conflicting variation in the chalk condition indicated by the two cored boreholes, ranging from A2/3 in the upper part of SD 3 and lower part of CBH 8U to complete core loss in the upper part of CBH 8U (indicating a very low grade material) and grade C3 in lower part of SD 3.

4.3 Lower London Tertiaries (Table 6)

4.3.1 Clay

Material description (Upper Clay) : stiff to very stiff, silty to slightly sandy, CLAY. Sometimes thinly laminated, or interlaminated with sand. Colour variably brown, orange brown, and grey, sometimes mottled.

Material description (Lower Clay) : stiff to very stiff CLAY. Sometimes thinly laminated, extremely closely fissured. Colour variably dark grey, brown and grey, occasionally reddish, blueish/greenish.

Clay described on the borehole logs as soft and firm is considered to be disturbed and softened, and unrepresentative of the in situ material.

The upper and lower Lower London Tertiaries clays are clearly distinguishable in terms of their plasticity: the lower clay is of extremely high plasticity compared to a much lower plasticity for the upper clay, see Figure 7.6 and 8. This is at least in part due to the greater proportion of clay size particles in the lower clay, and the greater proportion of silt in the upper clay, see Figure 6.5. The relative proportions of clay are also reflected in the much higher methylene blue values obtained for the lower clay, see Figure 17. The results of the mineralogical analyses are inconclusive in suggesting whether there is also a significant difference in clay mineralogy.

The moisture contents of the lower clay are generally higher than those for the upper clay, by a factor of approximately two comparing the average values. In both clays the moisture contents are

a little greater than the corresponding plastic limits. Particle densities are similar for both clays. The bulk density is noticeably greater for the upper clay.

The consolidation tests indicate a wide range of overconsolidation ratios for the Lower London Tertiaries Clay, see Figure 16. It should be noted that interpretation of oedometer test results has been carried out by both Casagrande and Schmertman methods, both of which are somewhat subjective. The coefficient of compressibility values (m_v) have been assessed from the slope of the unloading line.

4.3.2 Sand

Material description : brown to grey, slightly silty to silty, fine to medium SAND.

Occasionally thinly laminated, occasionally with angular to rounded fine to medium gravel of flint. Rarely encountered as gravel. Rare lignite bands, siltstone/sandstone bands. The sand contains a relatively small proportion of fine soil (silt and clay).

4.4 London Clay (Table 5)

Material description : variably grey and brown, stiff to very stiff, silty to slightly sandy, CLAY. Sometimes fissured, thinly laminated, with thin laminae of silt. Rarely slightly gravelly. Occasional claystone/siltstone.

The soil is a clay of very high and extremely high plasticity, falling between the ranges of the lower and upper Lambeth Clays, see Figure 8. The plasticity data tentatively suggest a boundary between about -48 and -50 mOD with slightly more plastic clay above this level, see Figure 7.5. Moisture contents are generally slightly above the corresponding plastic limits, and are typically slightly less in the lower substratum.

The higher plasticity values for the upper layer (Liquid Limits from about 80 to >100) are greater than those typically reported elsewhere for London Clay (60 to 80).

The methylene blue values indicate a clay content somewhat between the upper and lower Lower London Tertiaries Clays, see Figure 17, with lower values towards the base of the stratum, corresponding to the plasticity profile.

There is also a noticeable change in the bulk and dry density profiles at about -50 mOD, see Figure 10. Above this level the density values are particularly low with average bulk and dry densities of about 1.75 and 1.2 Mg/m³, compared to typical London Clay values in the region of 1.95 and 1.55 Mg/m³ respectively. The samples were obtained from eight separate holes across the site, by both U100 sampling and rotary coring, and would therefore seem to be representative. It is likely that these low densities are related to the higher than typical Atterberg limits and moisture contents.

A corresponding step at about -50 mOD is visible in the shear wave velocity profile, Figure 22.

Interpretation of the one dimensional (oedometer) consolidation tests is summarised in Figure 16, which includes results for the Lower London Tertiaries. The comments in Section 4.3.1 regarding the interpretation also apply to the London Clay.

4.5 Crag Deposits (Table 4)

Material description : slightly silty, fine to coarse SAND with varying proportions of fine to medium gravel size shell fragments. Locally cemented. Rare thin laminae of clay. Colour variably brown and grey, becoming predominantly grey below about 20 m.

The laboratory index tests indicate the material properties to be fairly consistent throughout the full thickness of the stratum, with no discernible variation in particle size distribution.

Other parameter variations are:

- slight reduction in moisture content over the range -20 and -32 mOD, compared to the rest of the stratum, although this may be coincidental
- consistent increase in particle density with depth, suggesting some change in mineralogy of the particles deposited
- minor variation in bulk and dry density, with apparent reduction below -30 mOD
- some scatter in max/min dry density, again with reduction below -30 mOD
- no apparent variation in laboratory drained shear strength parameters

The laboratory permeabilities are of the order of 1 E-4 m/s, locally lower, with a trend of increasing slightly with depth along the upper bound side. These compare reasonably well with the permeability range derived from the pumping test of 2.6 to 4.3 E-4 m/s.

The Standard Penetration Test (SPT) results are shown in Figure 18 and a statistical analysis of the results given in the table below. Most of the tests reached the maximum 50 blow count without achieving the full 300 mm test drive penetration. The N values are therefore almost entirely calculated on the blowcount for the measured penetration extrapolated to the full test drive length.

As can be seen there is much scatter of results, reflecting lateral variation in the material properties, although the test is considerably influenced by the drilling process as well. While there is a general increase in N value with depth, as would be expected, it is possible to see bands of reasonably consistent relative density over the 5 m depth intervals examined:

Reduced level range, mOD	SPT N value
-5 to -15	50
-15 to -20	100
-20 to -30	130
-30 to base	145

In terms of relative density description on the borehole logs, the sand is essentially very dense below -15 mOD (ie $N > 50$), with medium dense to very dense conditions at shallower depth.

The Menard test results suggest that the Crag Deposits can be divided into three layers in terms of strength/stiffness properties, with boundaries at about -10 mOD, -19 mOD and -34 mOD. This is discussed in the Fondasol report, Volume 3A.

4.6 Recent Deposits (Table 3)

The Cohesive Recent Deposits are clays of very to extremely high plasticity, with moisture contents falling roughly midway between the corresponding liquid and plastic limits. The more organic soils have moisture contents in excess of 100%.

The consolidation test results suggest some overconsolidation of the upper part of the stratum, to approximately 8 m depth, below which the soils are essentially normally consolidated, see Figure 15.

4.7 Made Ground (Table 2)

Material description : slightly silty to silty, slightly gravelly to gravelly fine and medium SAND with occasional roots/rootlets, shells/shell fragments, wood and man-made material artefacts (eg brick and concrete fragments). In parts varying to GRAVEL with variable sand content.

Rarely encountered as cohesive material. Surface layer of concrete or macadam at some locations.

The Made Ground is almost entirely derived from natural deposits excavated during construction of the Sizewell B power station, and subsequently reworked during landscaping works. The distinction between this placed material and the underlying natural soils of similar origin is therefore extremely difficult except where clear identifiers such as man-made artefacts are encountered, or a relic topsoil layer separating reworked and natural materials is present.

5 GROUNDWATER

Records of groundwater monitoring carried out in borehole installations during the fieldwork are presented in Volume 1. The results of a pumping test in the Crag Deposits are reported in Volume 3B which includes an interpretation of the test data to assess hydrogeological parameters.

Comments relating to the background monitoring of groundwater levels during the fieldwork period between end of July 2010 and beginning of March 2011 are presented below. The data examined exclude observations influenced by the pumping test carried out between 26 January and 13 February 2011. The records have been corrected for barometric variation.

The two vibrating wire piezometers installed in the Chalk (CBH1 and MPM2) showed artesian groundwater conditions, with a piezometric surface at approximately 4.5 m above ground level. The pressure varied by up to 0.80 m during the monitoring period. The trend of variation in pressure with time is similar in the two installations and is probably at least partly due to tidal response.

The other CBH and DBH series borehole monitoring standpipes were installed in the Crag Deposits, with two nominal response zones ranges: typically between 10 and 20 m below ground level, and between 15 and 35 m below ground level. The average water levels for each installation are at between 0.28 and 0.73 mOD (ie, within 0.45 m), indicating a phreatic surface at an average elevation of 0.53 mOD. The groundwater level in the Crag Deposits is tidally influenced, by

between 0.3 and 1.2 m in the monitored installations, as shown in the example data extracts, see Figure 27. The variation appears to be largely influenced by the distance from the sea, see Figure 28.


The GW series standpipes were installed in the Made Ground/Recent Deposits and top of the Crag Deposits to a maximum depth of about 15 m. These indicate a greater range of groundwater elevations, with average water levels for each installation at between 0.44 and 2.14 mOD. The higher groundwater levels were recorded in the installations where ground level is greater. GW1 and 2, for example, show groundwater at above 2 mOD where ground level is in excess of 13 mOD.

The range of water levels recorded in each GW installation varied between 0.12 and 1.58 m, the greater ranges being closer to the sea, although there is not a simple trend due to the greater lateral extent and ground level variation of these holes.

The monitoring installations suggest that the vertical groundwater pressure profile through the superficial materials and Crag Deposits is essentially hydrostatic, see Figure 29. However, the long standpipe response zones (generally greater than 10 m) are likely to mask the effects of under-drainage or surface recharge.

SUMMARY OF GROUNDWATER CONDITIONS

Installation reference	Range of values	Average value	Standard deviation	Remarks
CHALK, GWL mOD				Vibrating wire piezometers
CBH1	6.75 to 7.55	7.02	0.08	
MPM2	5.77 to 6.24	5.96	0.08	
CRAG DEPOSITS, GWL mOD				Standpipes
CBH and DBH installations	-0.06 to 1.19	0.53	NA	All data from 15 No installations
	0.28 to 0.73	NA	NA	Range of water levels averaged for each installation

Prepared By	P Hepton BSc PhD
Reviewed By	R C Gosling BSc CEng MICE
Approved for Issue By	

REFERENCES

BGS England and Wales Sheet 191 : 1996 : Saxmundham. 1:50000 geological map (solid & drift).
British Geological Survey

Summary of Strata



Stratum	Top of stratum, mbgl and mOD					Thickness, m					Remarks
	No of holes	min	max	avg	std dev	No of holes	min	max	avg	std dev	
Topsoil	33	0.00	0.00	0.00	NA	33	0.05	0.30	0.12	0.06	
		NA	NA	NA	NA		0.10	10.70	4.29	2.71	
Made Ground	186	0.00	1.20	0.05	0.20	126	0.10	10.70	4.29	2.71	Excludes GW16D and GW17 where penetrated 20 m and 11 m respectively.
		12.04	0.50	3.29	2.38		0.80	17.00	6.25	3.40	
Recent Deposits undifferentiated	137	0.00	12.00	4.25	2.96	107	0.80	17.00	6.25	3.40	
		6.15	-8.26	-1.31	3.13		0.50	10.00	4.11	2.15	
Recent Deposits Cohesive (inc Peat)	101	0.70	15.65	6.57	2.63	93	0.50	10.00	4.11	2.15	Stratum taken as full depth range where occurring as more than one stratum in a hole. Individual stratum thicknesses vary from 0.22 to 10 m. Nearly 90% of holes encountered less than 6 m thickness of Peat.
		0.79	-9.58	-3.95	2.03		29.10	41.93	34.17	2.74	
Crag Deposits	109	3.30	20.30	10.65	2.37	46	29.10	41.93	34.17	2.74	Ignoring DBH8, 9 and 10 - see Report. At 90% of hole locations stratum top elevation between -5.3 and -12.5 mOD, average -8.6 mOD, std dev 1.7 m
		3.10	-12.48	-8.00	2.67		10.20	19.70	13.69	2.08	
London Clay	46	42.00	55.50	45.42	2.63	14	10.20	19.70	13.69	2.08	Greatest depth to stratum top corresponding to highest ground level at CBH3. Full thickness proven in CBH1, 2, 8U, DBH1, MPM1, 2, 13, SBP1, 2, 3, 4, SD1, 3.
		-40.41	-45.08	-42.79	1.27		16.70	26.75	23.73	2.45	
Lower London Tertiaries undifferentiated	14	56.45	63.00	58.76	2.02	12	16.70	26.75	23.73	2.45	Encountered in CBH1, 2, 8U, DBH1, 2, MPM1, 2, 13, SBP1, 2, 3, 4, SD1, 3. Full thickness not proven in SBP3 and 4
		-54.16	-61.41	-56.55	1.92		0.96	6.55	3.51	2.46	
Upper Clay	7	56.45	66.76	59.21	3.65	8	0.96	6.55	3.51	2.46	CBH2, DBH1, SBP1, 2, 3, 4, SD3. 2 separate strata in SBP2
		-54.85	-63.36	-57.20	3.02		3.75	18.10	9.97	4.34	
Sand	14	57.50	65.25	60.62	2.75	14	3.75	18.10	9.97	4.34	Ignoring separate strata in SBP2 and SD3. Includes layers of gravel in SBP2 and SD1, and siltstone in CBH8U.
		-54.16	-63.16	-58.41	2.98		5.20	17.25	11.37	3.29	
Lower Clay	14	65.40	76.30	70.67	3.25	12	5.20	17.25	11.37	3.29	Full thickness not proven in SBP3 and 4
		-62.82	-74.70	-68.34	3.34		Thickness of stratum not proven at maximum penetration of 45.05 m				
Chalk	12	79.70	86.11	82.31	2.15	12	Thickness of stratum not proven at maximum penetration of 45.05 m		2.15	Encountered in CBH1, 2, 8U, DBH1, 2, MPM1, 2, 13, SBP1, 2, SD1, 3.	
		-78.11	-82.71	-80.07	1.56						

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No. A0012-10
 Carried out for NNB Generation Company Limited

Table

Summary of Material Properties – Made Ground



Soil Mechanics

Parameter	No of results	Range of values	Average value	Standard deviation	Remarks
Particle size distribution	12	1 to 15	8.6	4.4	See Figure 6.1
<63 μm (silt and clay)		18 to 42	25.4	7.4	
0.063 to 0.2 (fine sand)		44 to 61	56.5	5.7	
0.2 to 0.63 (med sand)		0 to 8	4.1	2.4	
0.63 to 2 (coarse sand)		0 to 4	1.6	1.1	
2 to 6.3 (fine gravel)		0 to 11	1.6	3.2	
6.3 to 20 (med gravel)					
Moisture content, w %	8	14 to 20	17	2.0	See Figure 7.1 and 7.2
Particle density, ρ_s Mg/m ³	6	2.63 to 2.79	2.66	0.06	See Figure 9
Bulk density, γ_b Mg/m ³	7	1.80 to 2.14	2.04	0.11	Linear measurement See Figure 10
Dry density, γ_d Mg/m ³	7	1.58 to 1.86	1.76	0.09	
Min dry density, Mg/m ³	2	1.41 and 1.52	1.47	NA	See Figure 11
Max dry density, Mg/m ³	2	1.71 and 1.89	1.80	NA	
Translation shear box	3				Sets of 3 See Figure 12
Friction angle peak, ϕ_p°		3.5 to 44	40	4	
Friction angle residual, ϕ_r°		27.5 to 36	31	5	
Cohesion peak, c_p kPa		3 to 21	9	10	
Cohesion residual, c_r kPa		0 to 18	7	10	

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No. A0012-10
 Carried out for NNB Generation Company Limited

Table

2

Summary of Material Properties – Recent Deposits



Soil Mechanics

Parameter	No of results	Range of values	Average value	Standard deviation	Remarks
Particle size distribution	4				See Figure 6.2
Liquid limit, W_L	8	79 to 498	172	141	Excluding results 32 See Figure 7.1 and 7.3
Plastic limit, W_P	7	32 to 101	56	30	Excluding 2 results NP
Plastic index, PI	7	42 to 122	69	28	
Moisture content, w %	13	58 to 842	19	219	Excluding result 48
Liquidity index, LI	7	0.48 to 0.62	0.52	0.05	Excluding result -0.268
Atterberg limits classification	Soils of very high to extremely high plasticity, plotting above and below the 'A-line'				See Figure 8
Particle density, ρ_s Mg/m ³	3	2.61 to 2.64	2.62	0.02	See Figure 9
Bulk density, γ_b Mg/m ³	6	0.84 to 1.54	1.19	0.25	Linear measurement
Dry density, γ_d Mg/m ³	6	0.12 to 0.89	0.46	0.30	See Figure 10
Undrained shear strength (triaxial test), S_u kPa	6	13 to 68	46	20	See Figure 13
One dimensional consolidation	9				Oedometer tests. See Figure 15
Methylene blue value, g/kg	9	19.0 to 45.9	36.4	8.2	Excluding result 2.5 See Figure 17
Mineralogy	2	Granular soil – 86 % quartz, 6 % calcite Fine soil – 66 % smectite/illite/kaolinite/chlorite, 30 % quartz and calcite			See Volume 4
S wave velocity, km/s	14	0.151 to 0.271	0.219	0.042	Includes Made Ground, from 0 to -15 mOD. See Volume 3B
P wave velocity, km/s	6	1.50 to 1.80	1.68	0.10	

Notes:

Project **ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE**
 Project No. **A0012-10**
 Carried out for **NNB Generation Company Limited**

Table

3

Summary of Material Properties - Crag Deposits



Soil Mechanics

Parameter	No of results	Range of values	Average value	Standard deviation	Remarks
Particle size distribution <63 μm (silt and clay) 0.063 to 0.2 (fine sand) 0.2 to 0.63 (med sand) 0.63 to 2 (coarse sand) 2 to 6.3 (fine gravel) 6.3 to 20 (med gravel)	39	1 to 8 8 to 45 22 to 69 1 to 48 0 to 12 0 to 6	3 21 50 18 3.5 1.5	1.7 10 11 12 3 2	Excludes 6 results with >10% passing 63um and 2 results of >40% passing 63um, from probable cohesive inclusions. See Figure 6.3.
Moisture content, w %	38	14 to 29	19	3.1	See Figure 7.1 and 7.4
Liquid limit, W _L	2	38 and 41	40	2	Excluding result 21
Plastic limit, W _P	2	19	19	NA	Excluding result NP
Plastic index, PI	2	19 and 22	21	2	
Liquidity index, LI	2	0.36 and 0.53	0.44	0.12	
Atterberg limits classification	Clay of intermediate plasticity				See Figure 8
Particle density, ρ _s Mg/m ³	30	2.63 to 2.73	2.67	0.02	See Figure 9
Bulk density, γ _b Mg/m ³	35	1.90 to 2.14	2.04	0.06	Linear measurement See Figure 10
Dry density, γ _d Mg/m ³	35	1.49 to 1.83	1.72	0.07	
Min dry density, Mg/m ³	33	1.37 to 1.59	1.48	0.05	See Figure 11
Max dry density, Mg/m ³	33	1.65 to 1.93	1.80	0.06	
Translation shear box Friction angle peak, φ _p ° Friction angle residual, φ _r ° Cohesion peak, c _p kPa Cohesion residual, c _r kPa	9	33.5 to 40.5 28.5 to 34.0 0 to 79 0 to 25	36.7 30.8 26 9	2.5 1.8 27 11	See Figure 12
Undrained shear strength (triaxial test determinations), Su kPa	10	82 to 345	177	94	
Permeability, k m/s	9	2.6 E-5 to 1.1 E-4	7.4 E-5	3.1 E-5	Falling head test
pH	9	6.9 to 7.7	7.3	0.3	
Sulphate, SO ₄ g/l	9	0.04 to 0.31	0.15	0.10	
Carbonate, CO ₃ %	9	0.82 to 11	3.5	3.64	
Mineralogy	2	71 and 89 % quartz 2 to 15 % calcite and aragonite			See Volume 4

Notes:

Project **ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE**
Project No. **A0012-10**
Carried out for **NNB Generation Company Limited**

Table

4

Sheet 1 of 2

Summary of Material Properties - Crag Deposits



Soil Mechanics

S wave velocity, km/s	27	0.320 to 0.601	0.466	0.086	Between -15 and -42 mOD
P wave velocity, km/s	26	1.715 to 2.111	1.935	0.104	See Volume 3B

Menard Pressuremeter Tests (PMT)

See Volume 3A (including assessment of drilling parameters in MPM and DBH boreholes)

Standard Penetration Test (SPT) N values

Depth, mOD	No of results	Range of values		Average value	Standard deviation	Remarks
-5 to -10	31	4	100	46	25	525 tests in 14 BHs (12 No penetrating full Crag Deposits thickness). See Figure 18
-10 to -15	77	10	150	61	27	
-15 to -20	75	16	200	99	35	
-20 to -25	76	68	231	129	36	
-25 to -30	73	65	375	130	43	
-30 to -35	69	75	214	142	32	
-35 to -40	71	63	214	148	35	
-40 to -45	53	46	214	145	39	

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No. A0012-10
 Carried out for NNB Generation Company Limited

Table

4

Sheet 2 of 2

Summary of Material Properties – London Clay



Soil Mechanics

Parameter	No of results	Range of values	Average value	Standard deviation	Remarks
Particle size distribution <2 μm (clay) 2 to 63μm (silt)	10	30 to 60 40 to 62	43 54	9 8	See Figure 6.4
Liquid limit, W_L	26	75 to 114	90	11	Excluding result 39 See Figure 7.1 and 7.5
Plastic limit, W_P	26	26 to 51	37	7	Excluding result 17
Plastic index, PI	25	29 to 79	53	10	
Moisture content, w %	28	27 to 58	43	7	
Liquidity index, LI	26	-0.11 to 0.35	0.11	0.12	
Atterberg limits classification	Clay of very high and extremely high plasticity (CV and CE). Five results silt of very high and extremely high plasticity (MV and ME)				See Figure 8
Particle density, ρ_s Mg/m ³	8	2.62 to 2.70	2.65	0.03	See Figure 9
Bulk density, γ_b Mg/m ³	13	1.66 to 1.95	1.80	0.10	Linear measurement See Figure 10
Dry density, γ_d Mg/m ³	13	1.08 to 1.49	1.27	0.14	
Undrained shear strength (triaxial test), S_u kPa	2	12 and 68			
One dimensional consolidation	4				Oedometer tests. See Figure 16
Permeability, k m/s	1	4 E-11	NA	NA	Triaxial cell permeability
Methylene blue value, g/kg	13	58.0 to 88.0	72.2	8.1	Excluding results 10.7 and 31.5 See Figure 17
Mineralogy	2	58 and 60 % smectite, 8 to 15 % illite/kaolinite/chlorite			See Volume 4
S wave velocity, km/s	11	0.317 to 0.611	0.440	0.117	Between -43 and -56 mOD. See Volume 3B
P wave velocity, km/s	14	1.608 to 1.980	1.753	0.106	

Notes:

Project **ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE**
 Project No. **A0012-10**
 Carried out for **NNB Generation Company Limited**

Table

5

Summary of Material Properties – Lower London Tertiaries



Soil Mechanics

UPPER CLAY

Parameter	No of results	Range of values	Average value	Standard deviation	Remarks
Particle size distribution <2 μm (clay) 2 to 63μm (silt)	8	20 to 56 36 to 76	42 51	14 13	Including Upper and Lower Clay See Figure 6.5
Liquid limit, W_L	6	27 to 55	38	11	See Figure 7.1 and 7.6
Plastic limit, W_P	5	17 to 21	19	2	Excluding result NP
Plastic index, PI	5	8 to 34	21	11	
Moisture content, w %	8	19 to 33	25	4	
Liquidity index, LI	5	0.03 to 0.73	0.38	0.30	
Atterberg limits classification	Clay of low to high plasticity (CL to CH), one result NP				See Figure 8
Particle density, ρ_s Mg/m ³	6	2.61 to 2.68	2.64	0.04	See Figure 9
Bulk density, γ_b Mg/m ³	7	1.97 to 2.18	2.06	0.07	See Figure 10
Dry density, γ_d Mg/m ³	7	1.56 to 1.83	1.67	0.09	
Undrained shear strength (triaxial test), S_u kPa					
One dimensional consolidation	5				Oedometer tests. See Figure 16. Including Lower Clay
Permeability, k m/s	1	9 E-12	NA	NA	Triaxial cell permeability
Methylene blue value, g/kg	7	1.7 to 49.7	20.2	17.4	See Figure 17
S wave velocity, km/s	11	0.240 to 0.565	0.446	0.093	Between -58 and -68 mOD. See Volume 3B
P wave velocity, km/s	11	1.709 to 1.981	1.850	0.072	

Notes:

Project **ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE**
 Project No. **A0012-10**
 Carried out for **NNB Generation Company Limited**

Table

6

Sheet 1 of 2

Summary of Material Properties – Lower London Tertiaries



Soil Mechanics

LOWER CLAY

Parameter	No of results	Range of values	Average value	Standard deviation	Remarks
Particle size distribution					See above
Liquid limit, W_L	8	96 to 138	117	17	See Figure 7.1 and 7.6
Plastic limit, W_P	8	31 to 44	39	5	
Plastic index, PI	8	62 to 95	78	14	
Moisture content, w %	8	31 to 48	41	6	
Liquidity index, LI	8	-0.06 to 0.10	0.02	0.05	
Atterberg limits classification	Clay of extremely high plasticity (CE)				See Figure 8
Particle density, ρ_s Mg/m ³	4	2.61 to 2.67	2.65	0.03	
Bulk density, γ_b Mg/m ³	5	1.69 to 1.93	1.80	0.12	
Dry density, γ_d Mg/m ³	5	1.16 to 1.55	1.28	0.17	
Undrained shear strength (triaxial test), S_u kPa					
Methylene blue value, g/kg	8	65.4 to 116.1	91.5	18.5	See Figure 17
Mineralogy	2	Granular soil – 83 % quartz Fine soil – 57 % smectite, 14 % illite/kaolinite/chlorite			See Volume 4

S wave velocity, m/s	6	260 to 505	363	98	Between -68 and -74 mOD. Higher values probably influenced by refraction through underlying stratum
P wave velocity, km/s	6	1.604 to 1.741	1.682	0.047	
S wave velocity, km/s	7	0.946 to 1.272	1.062	0.107	Between -75 and -81 mOD. See Volume 3B
P wave velocity, km/s	7	1.729 to 2.397	2.039	0.308	

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Table

6

Sheet 2 of 2

Summary of Material Properties – Chalk



Soil Mechanics

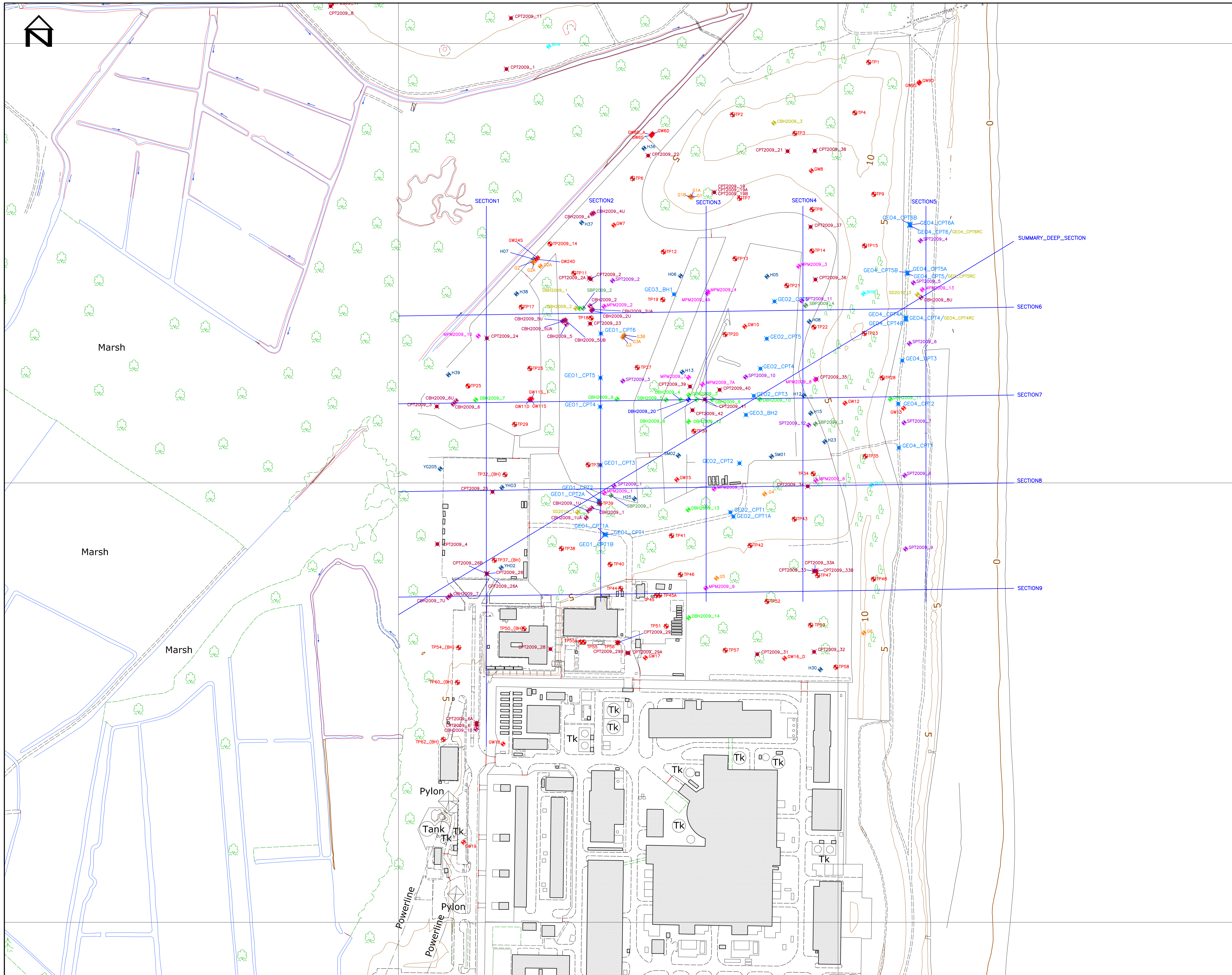
Parameter	No of results	Range of values	Average value	Standard deviation	Remarks
Mineralogy	2	99 % calcite			See Volume 4
Unconfined compressive strength, MPa	4	1.07 to 2.34	1.65	0.53	
Young's modulus E, MPa	4	630 to 1145	825	245	
Poisson's ratio ν	4	0.16 to 0.29	0.22	0.06	
Moisture content	5	27 to 36	30	3	
Bulk density, γ_b Mg/m ³	5	1.94 to 1.98	1.95	0.02	
Dry density, γ_d Mg/m ³	5	1.43 to 1.56	1.50	0.05	
Saturated moisture content, %	5	27 to 33	30	2	
Porosity, %	5	42 to 47	44	2	
S wave velocity, km/s	32	0.944 to 1.128	1.033	0.046	Between -86 and -118 mOD.
P wave velocity, km/s	32	2.152 to 2.662	2.351	0.106	Erratic values between -81 and -85 mOD ignored. See Volume 3B

Notes:

Project **ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE**
 Project No. **A0012-10**
 Carried out for **NNB Generation Company Limited**

Table

7



GENERAL NOTES

Note: Co-ordinates and levels related to Ordnance Survey National Grid and Datum using Leica's System 1200 dual frequency geodetic GPS receiver and SmartNet RTK correction. WGS84 position transformed using the Ordnance Survey OSTN/OSGM02 definitive transformation for the United Kingdom.

LEGEND TO SYMBOLS

- CBH (Rotary Cored Borehole)
- SD (Sonic Rotary Cored Borehole)
- SPT (Standard Penetration Testing Borehole)
- DBH (Rotary Open Hole Borehole)
- SBP (Self Boring Pressuremeter Testing Borehole)
- MPM (Menard Pressuremeter Testing Borehole)
- CPT (Cone Penetration Test)
- GEO_CPT (Cone Penetration Test)
- GW (Cable Percussion Borehole)
- G (Cable Percussion Borehole)
- BH (Cable Percussion Borehole)
- TP (Machine Excavated Trial Pit)
- Historical Borehole Location
- Section Line

Scale: 1:2000
 0 20m 40 80 120 160

EXPLORATORY HOLE PLAN AND CROSS SECTION LOCATIONS

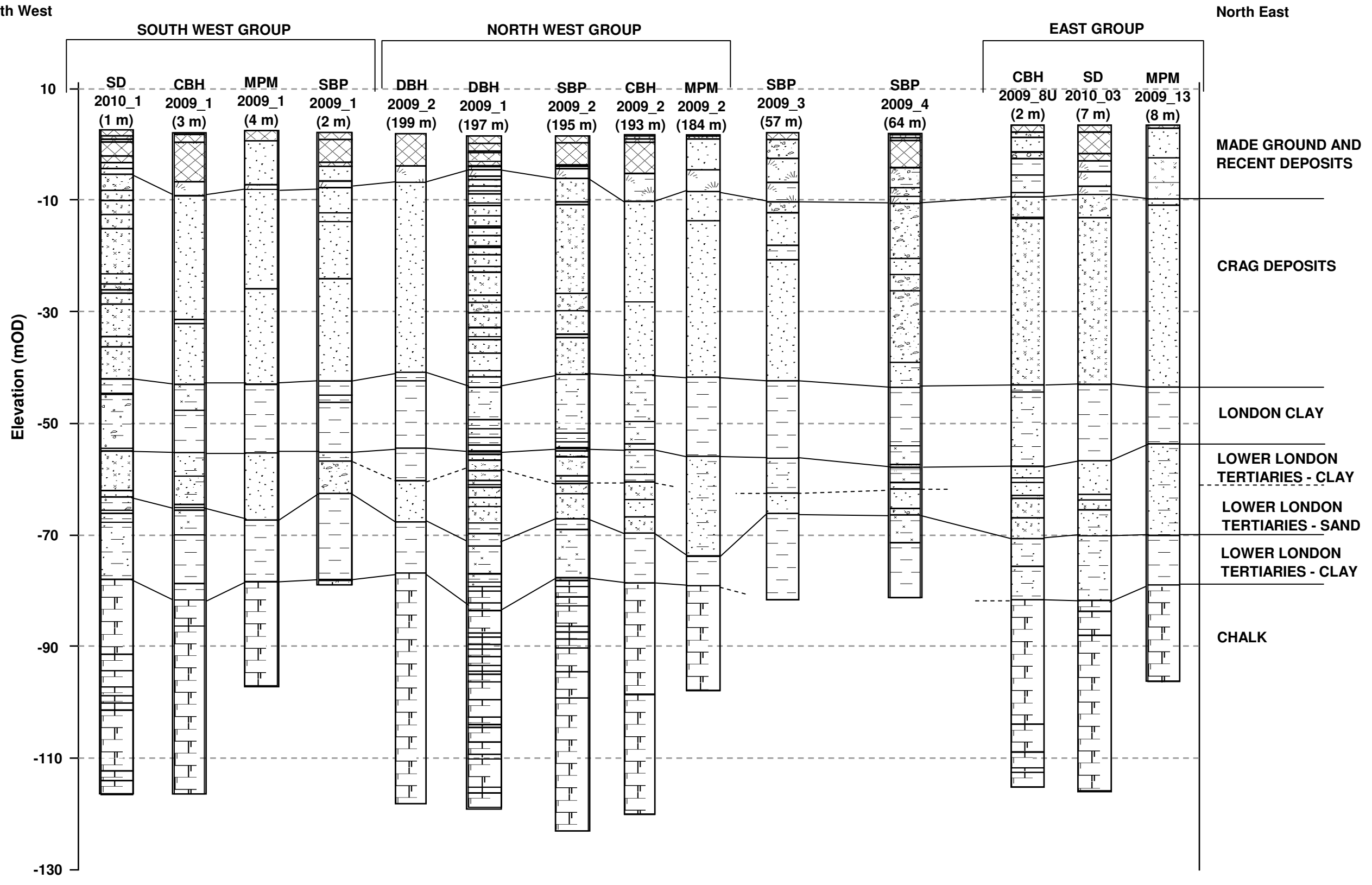
Project: **ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE**

Client: **NNB Generation Company Limited**

Soil Mechanics

Date	28.01.11	Drawn By	AW	Approved By	MT	
Sheet Size	A1	Scale	1:2000	Project No	A0012-10	
Figure No	1				Rev	0

Summary Deep Geological Cross Section



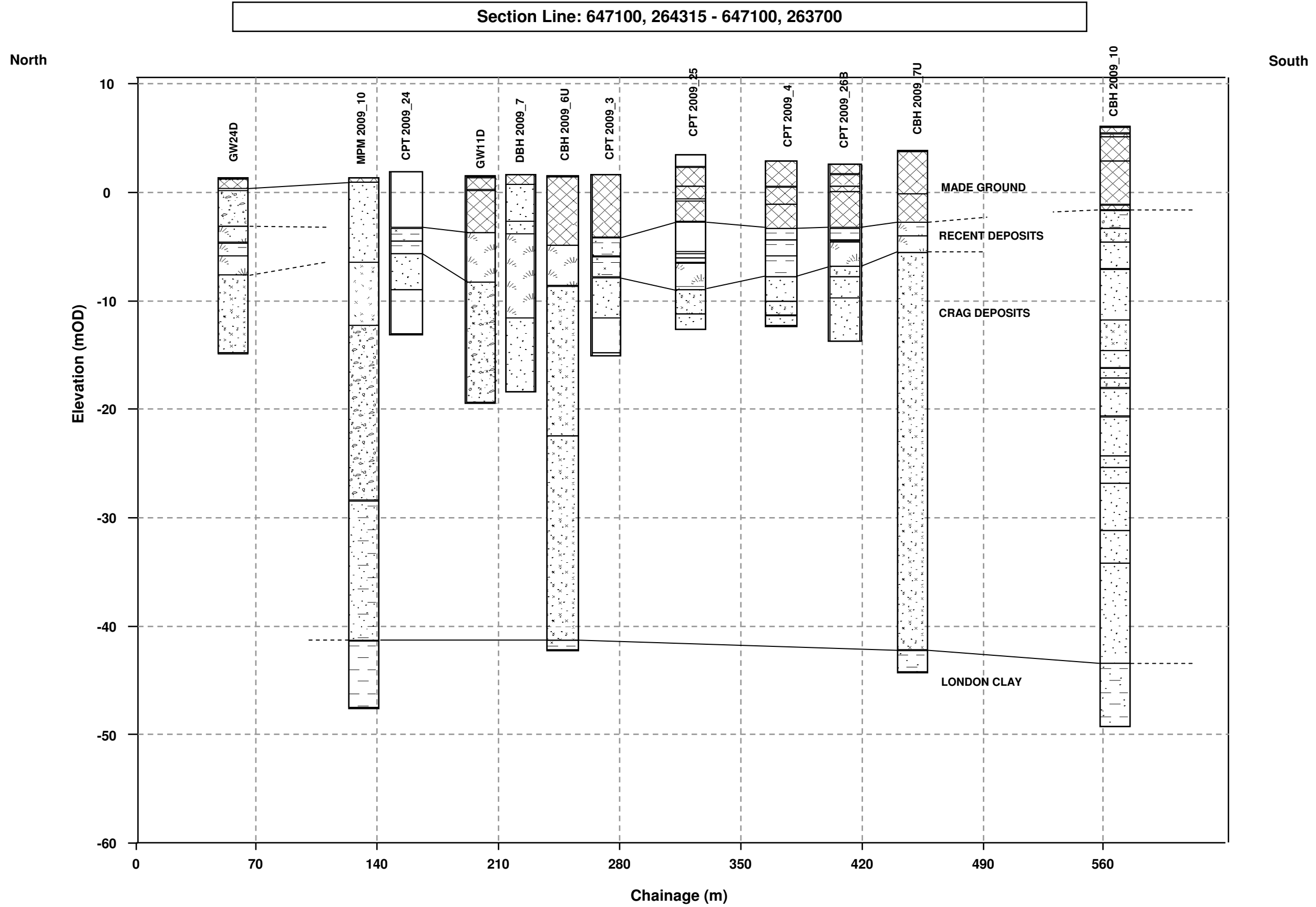
Copyright Environmental Scientifics Group

Notes:

Project: ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No.: A0012-10
 Carried out for: NNB Generation Company Limited

Figure

Geological Cross Section 1

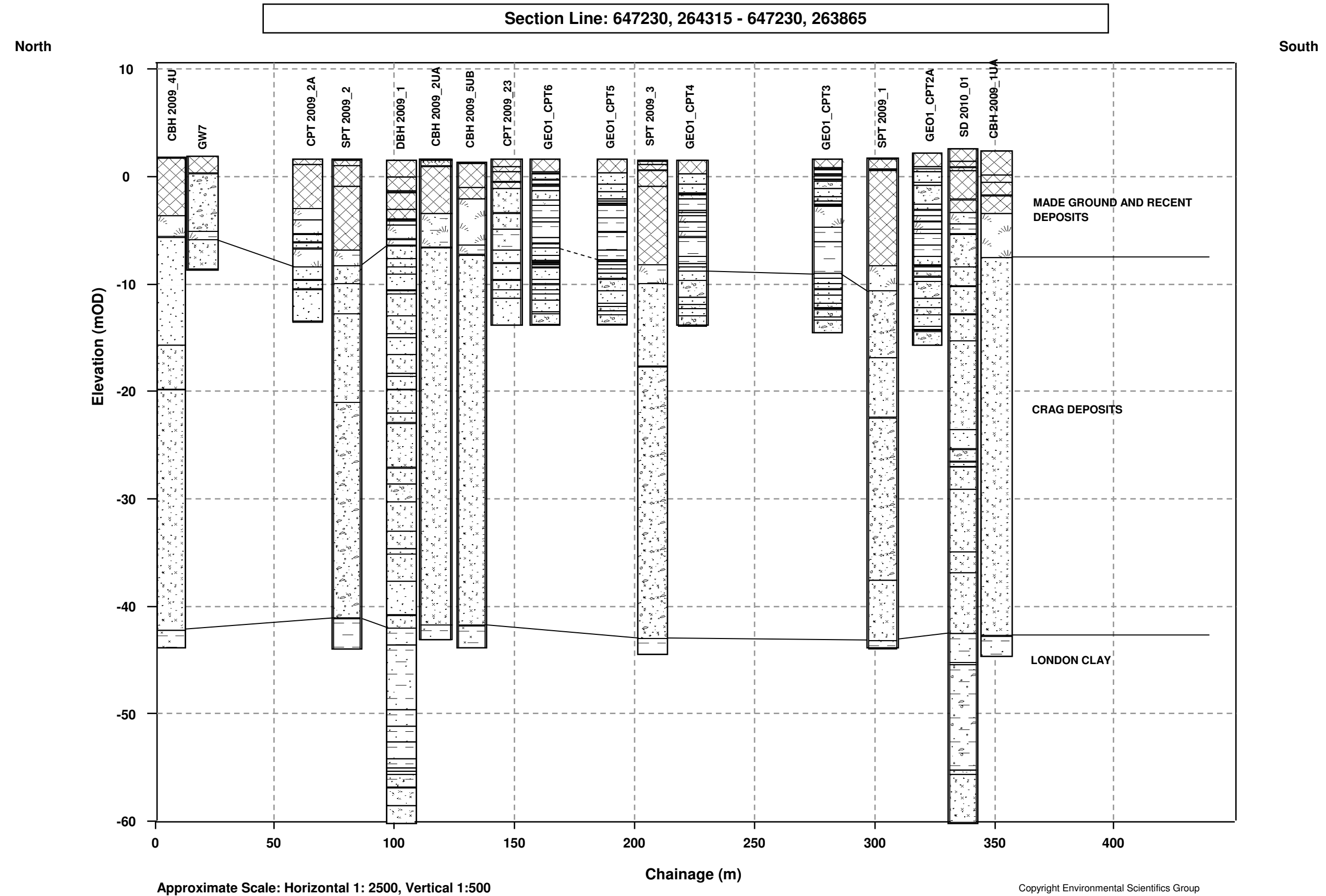


Notes:

Project: ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No.: A0012-10
 Carried out for: NNB Generation Company Limited

Figure

3.1



Approximate Scale: Horizontal 1: 2500, Vertical 1:500

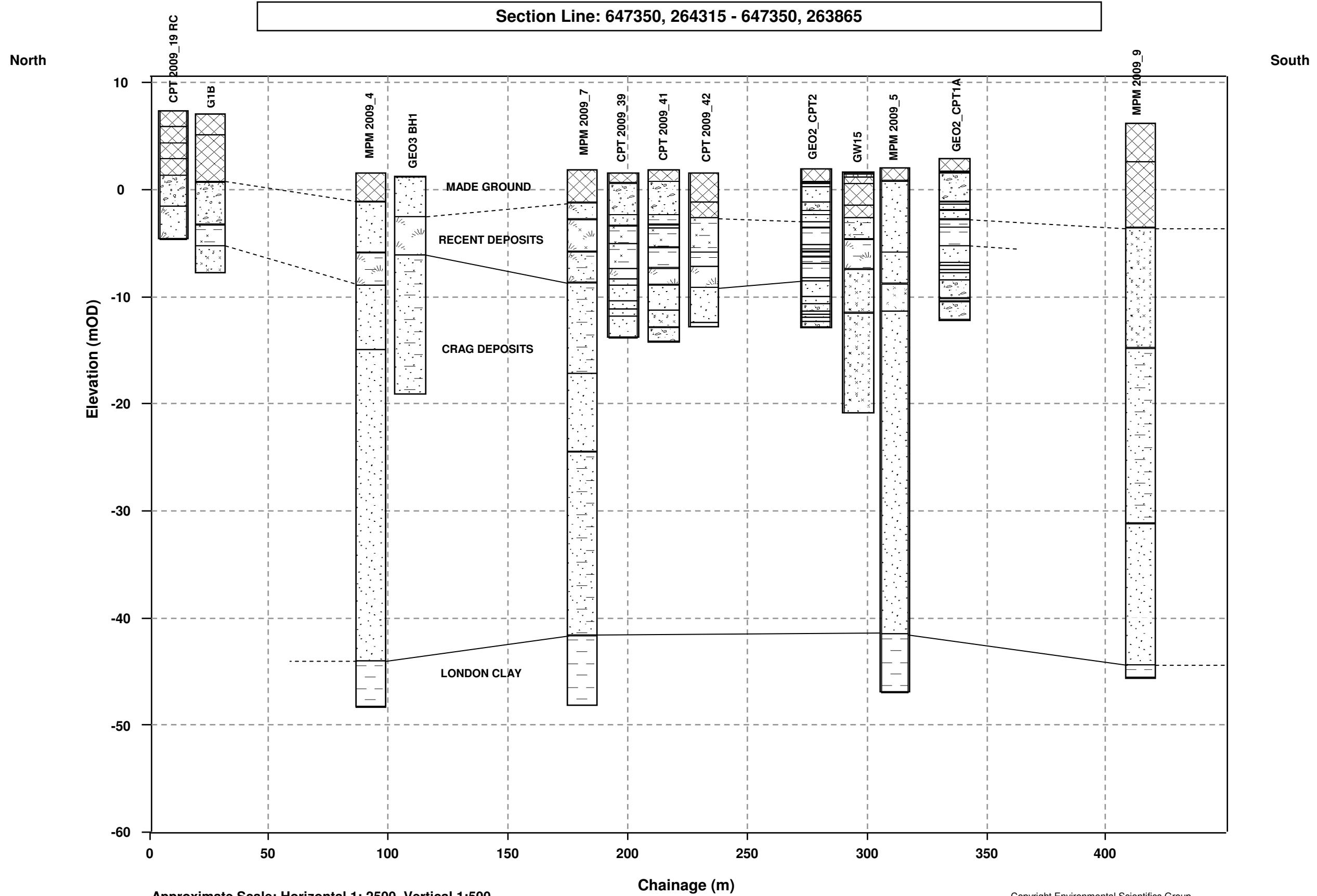
Copyright Environmental Scientifics Group

Notes:

Project: ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No.: A0012-10
 Carried out for: NNB Generation Company Limited

Figure 3.2

Geological Cross Section 3



Approximate Scale: Horizontal 1: 2500, Vertical 1:500

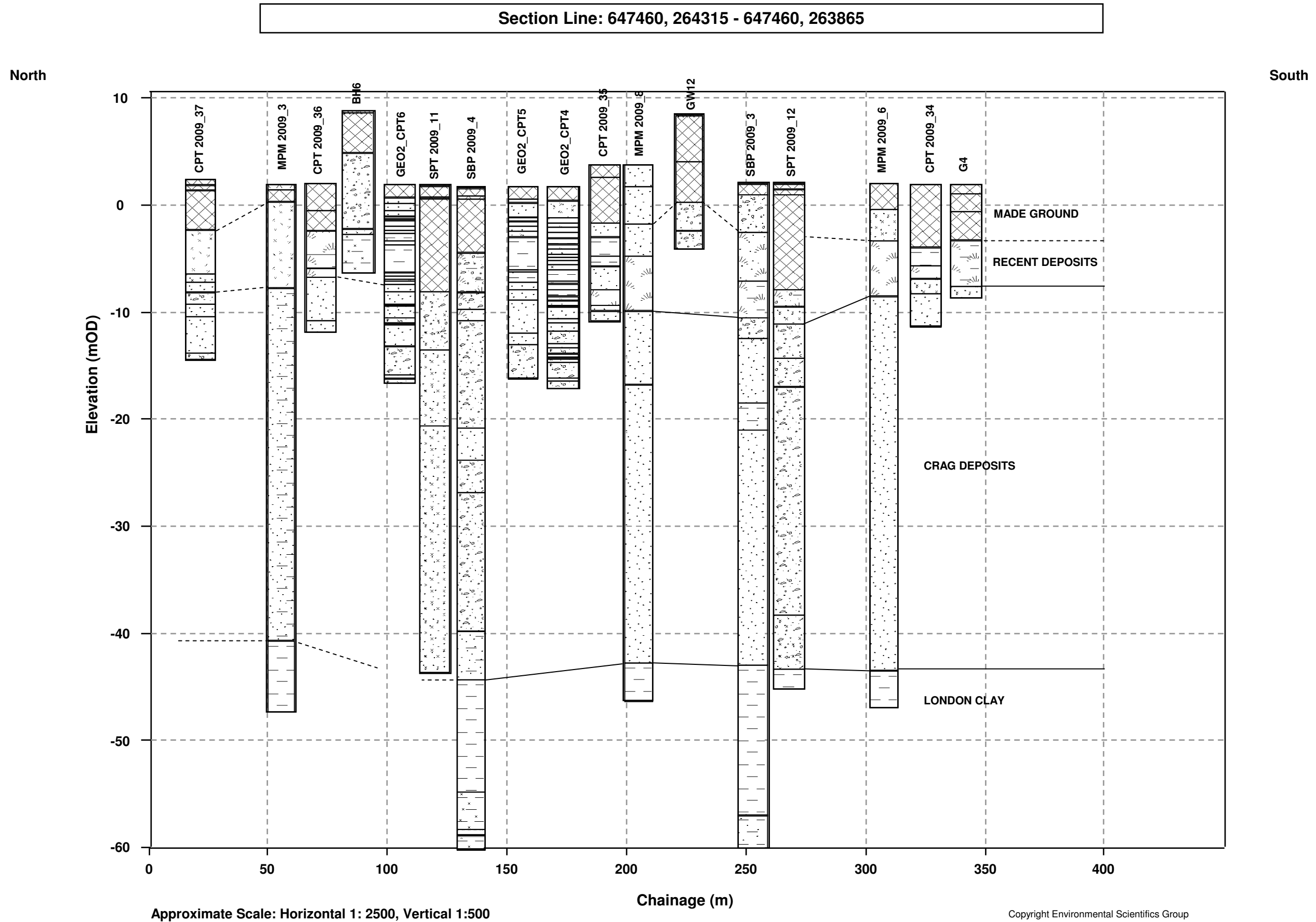
Copyright Environmental Scientifics Group

Notes:

Project: ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No.: A0012-10
 Carried out for: NNB Generation Company Limited

Figure 3.3

Geological Cross Section 4



Copyright Environmental Scientifics Group

Approximate Scale: Horizontal 1: 2500, Vertical 1:500

Chainage (m)

Elevation (mOD)

North

South

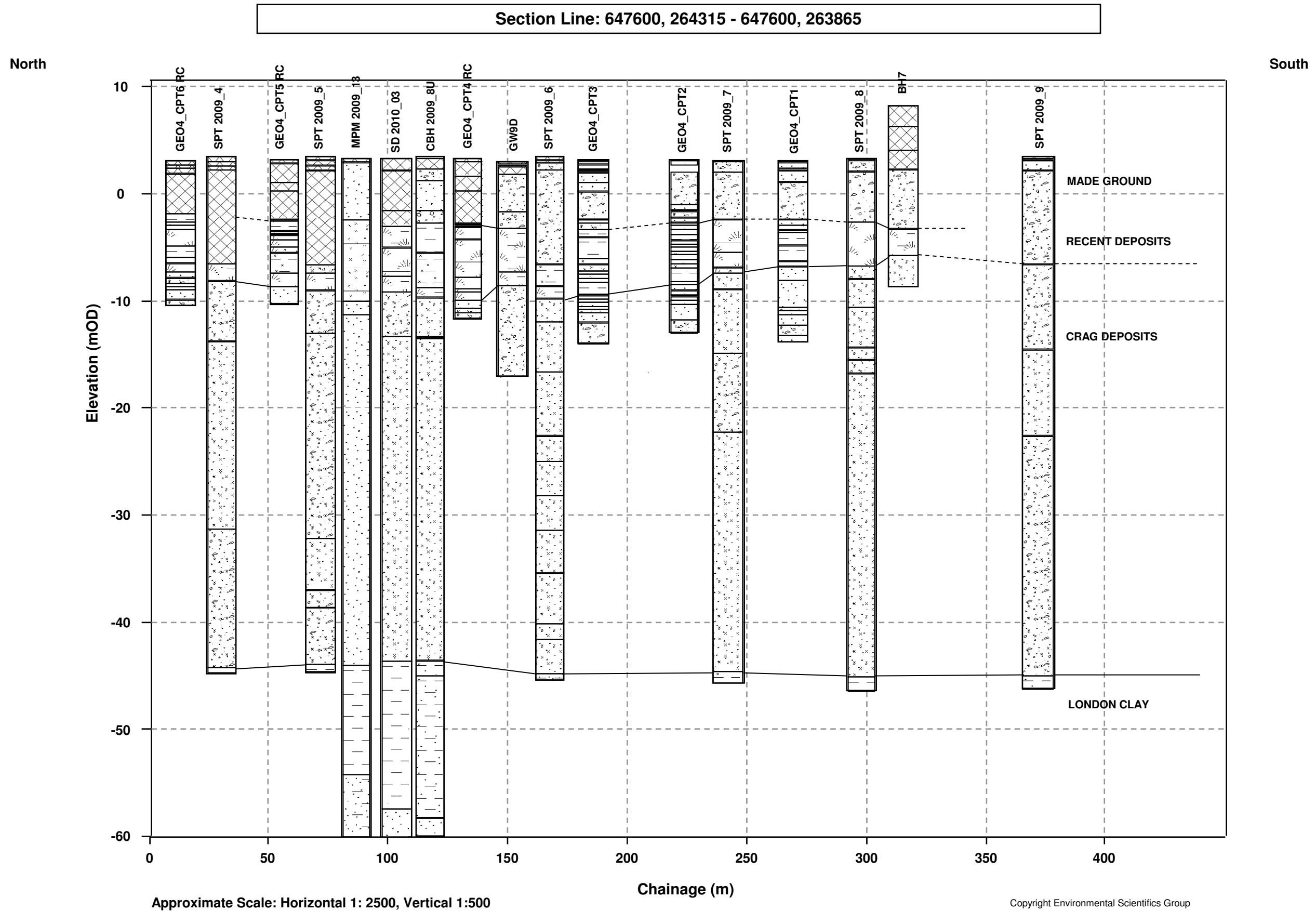
Project: ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No.: A0012-10
Carried out for: NNB Generation Company Limited

Figure

3.4

Notes:

Geological Cross Section 5



Approximate Scale: Horizontal 1: 2500, Vertical 1:500

Copyright Environmental Scientifics Group

Notes:

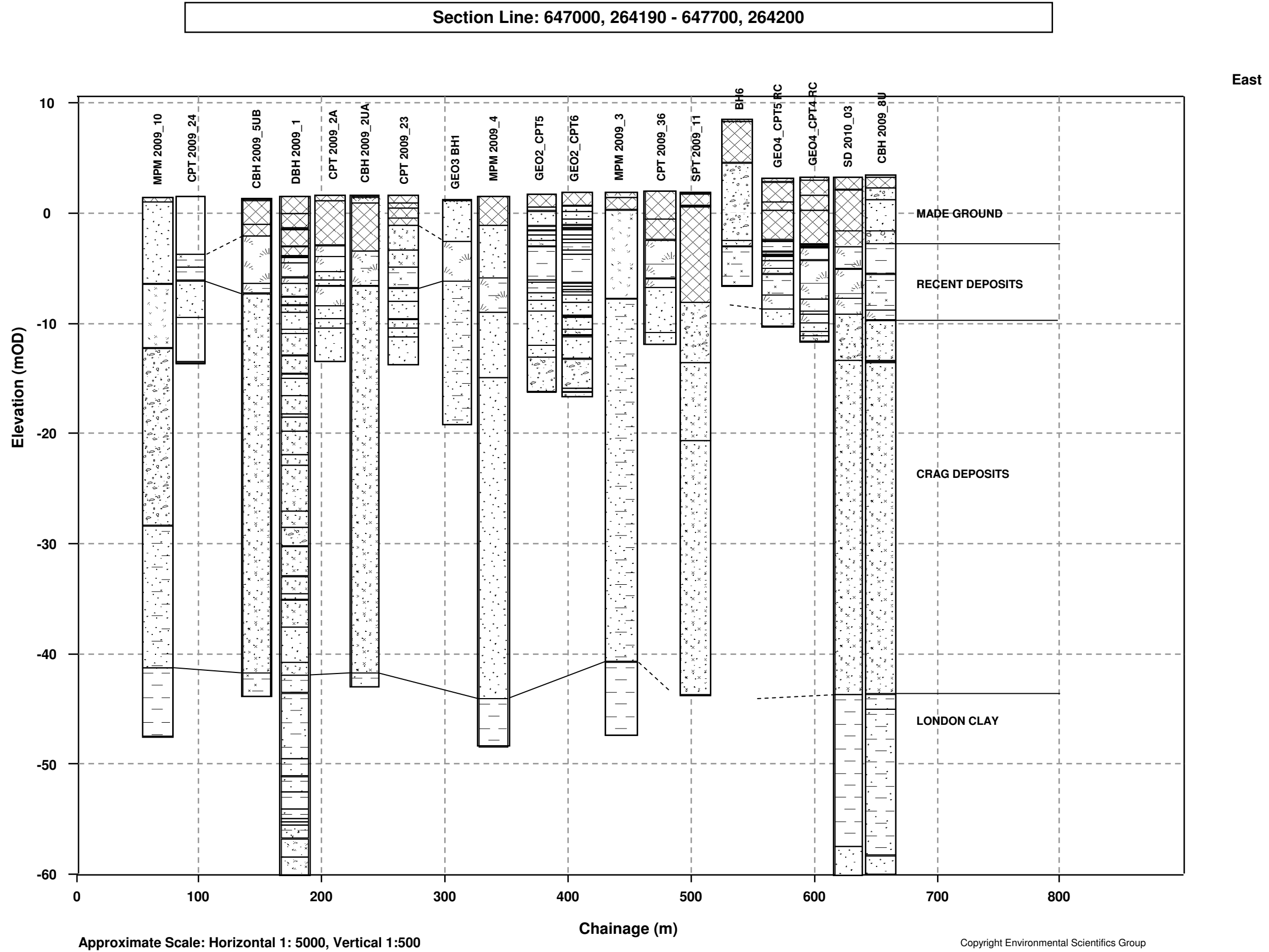
Project: ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No.: A0012-10
 Carried out for: NNB Generation Company Limited

Figure

3.5

Geological Cross Section 6

Copyright Environmental Scientifics Group

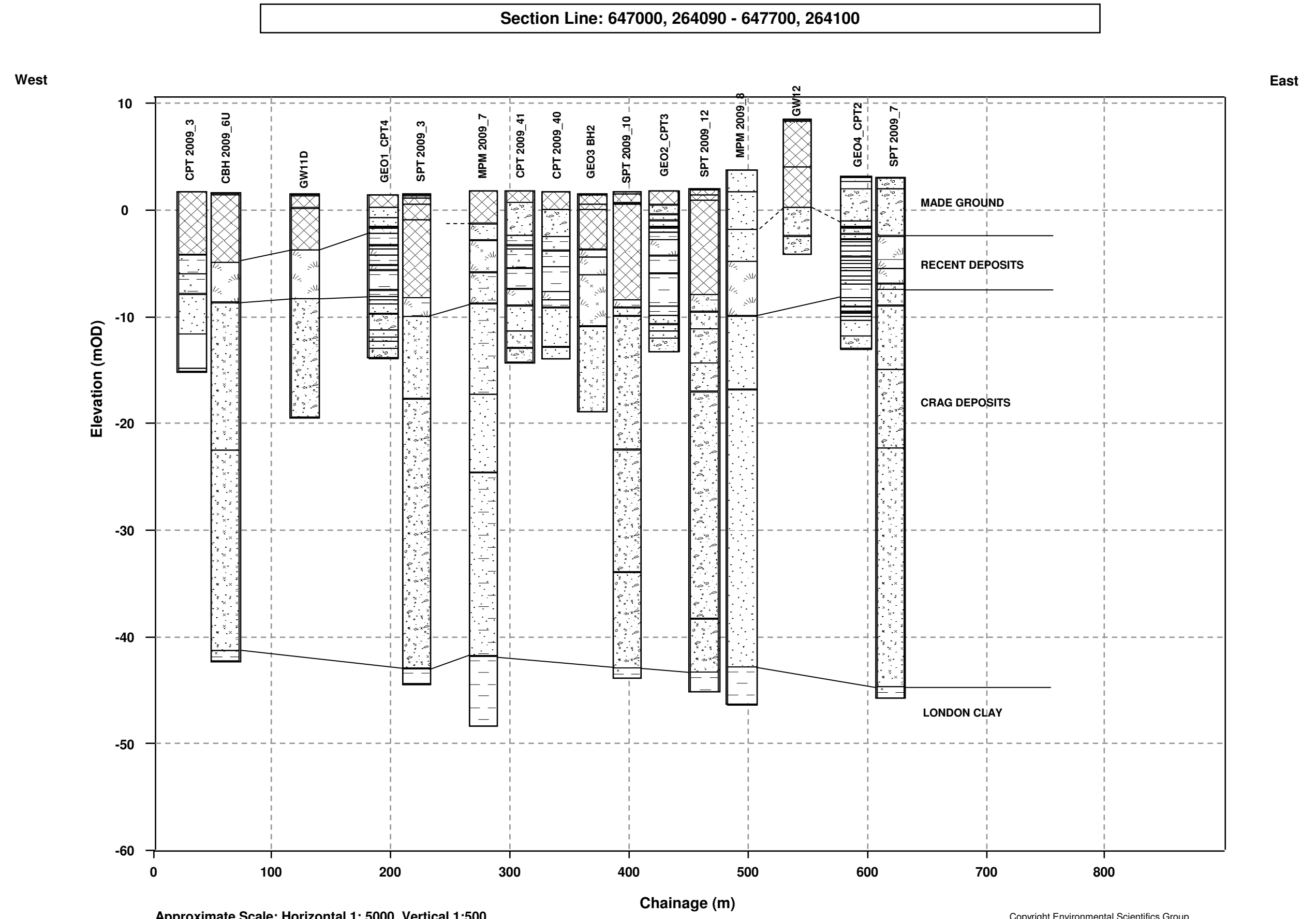


Notes:

Project: ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No.: A0012-10
 Carried out for: NNB Generation Company Limited

Figure

3.6



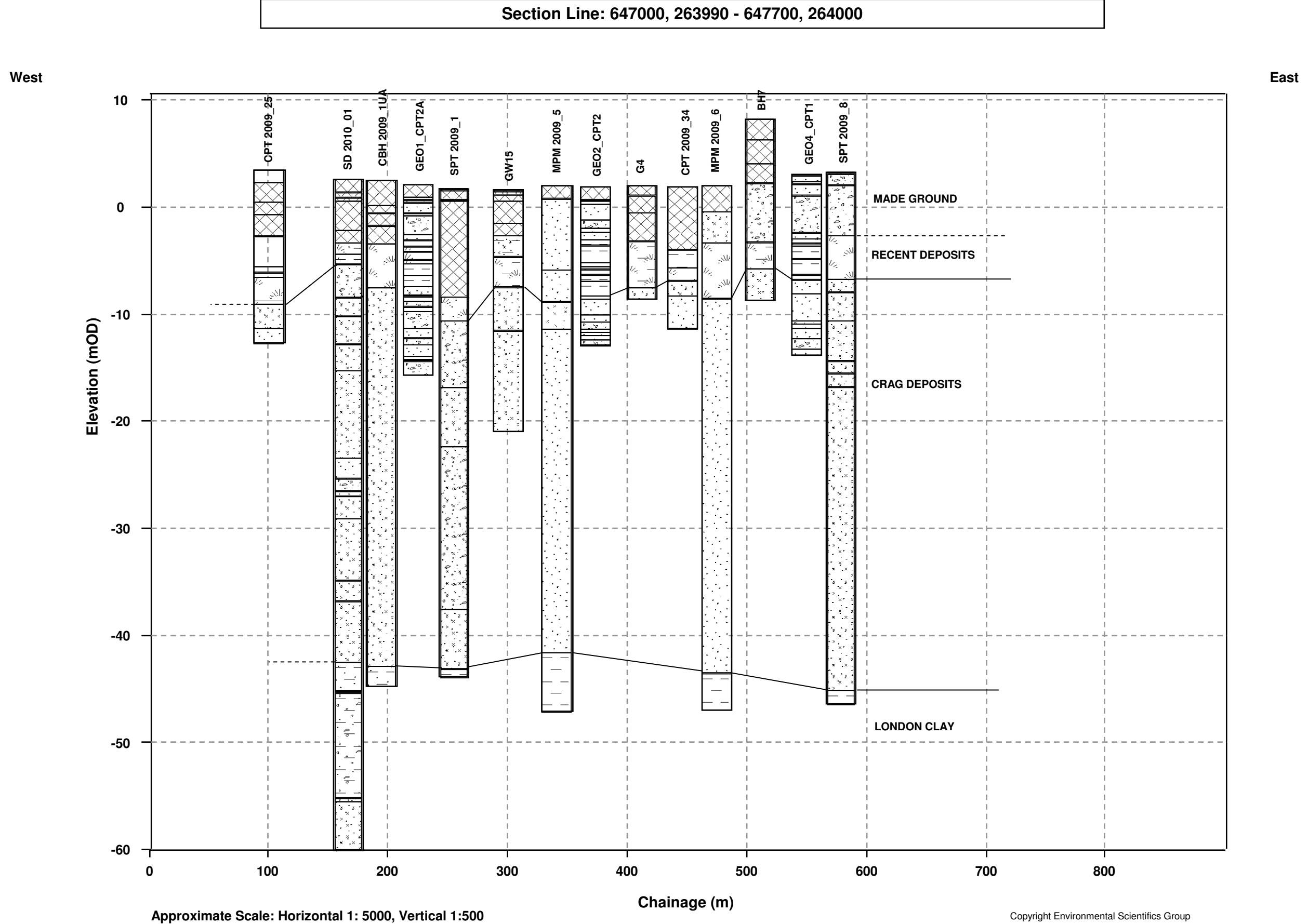
Approximate Scale: Horizontal 1: 5000, Vertical 1:500

Copyright Environmental Scientifics Group

Notes:

Project: ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No.: A0012-10
 Carried out for: NNB Generation Company Limited

Figure 3.7



Approximate Scale: Horizontal 1: 5000, Vertical 1:500

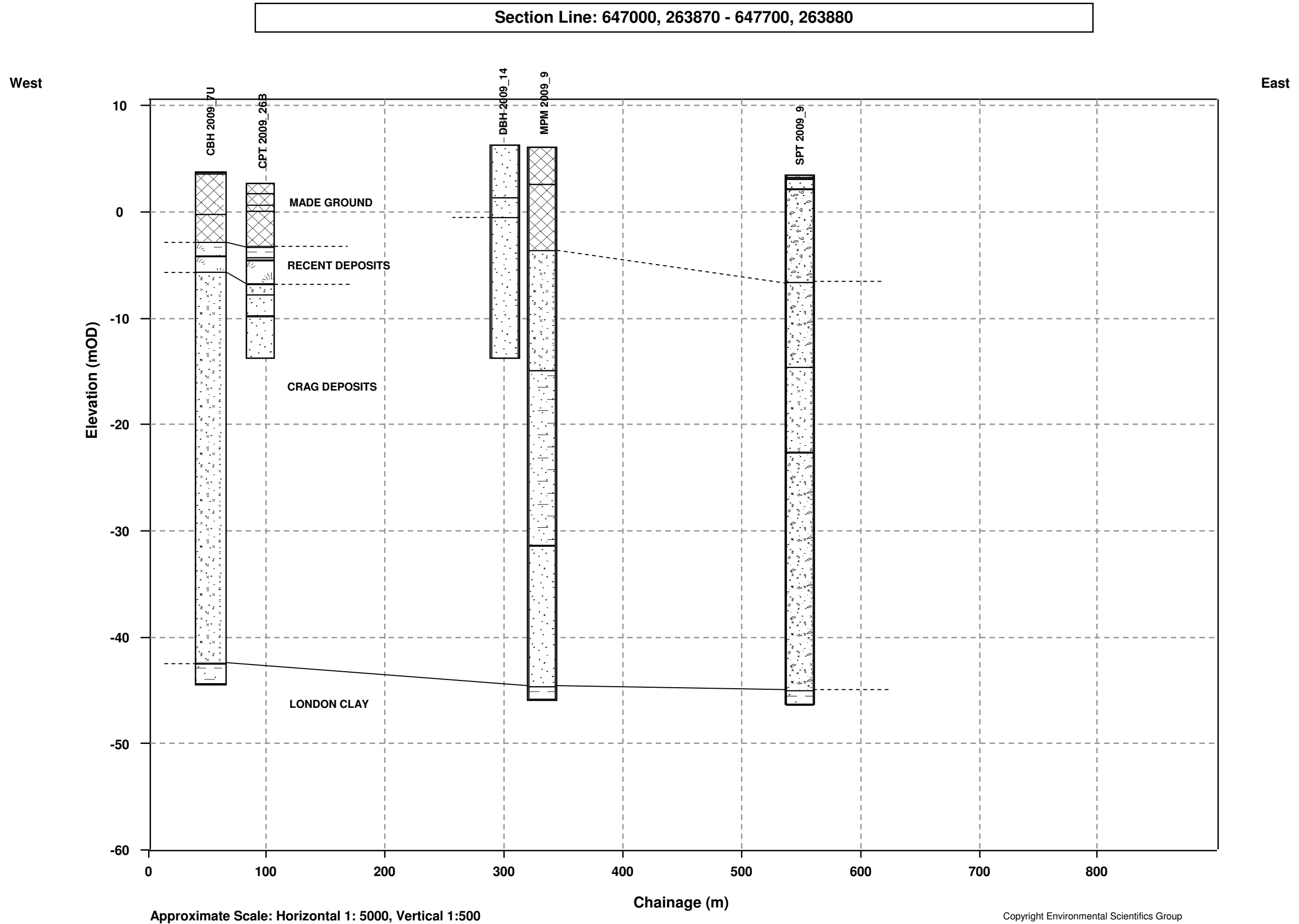
Copyright Environmental Scientifics Group

Notes:

Project: ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No.: A0012-10
 Carried out for: NNB Generation Company Limited

Figure

3.8



Approximate Scale: Horizontal 1: 5000, Vertical 1:500

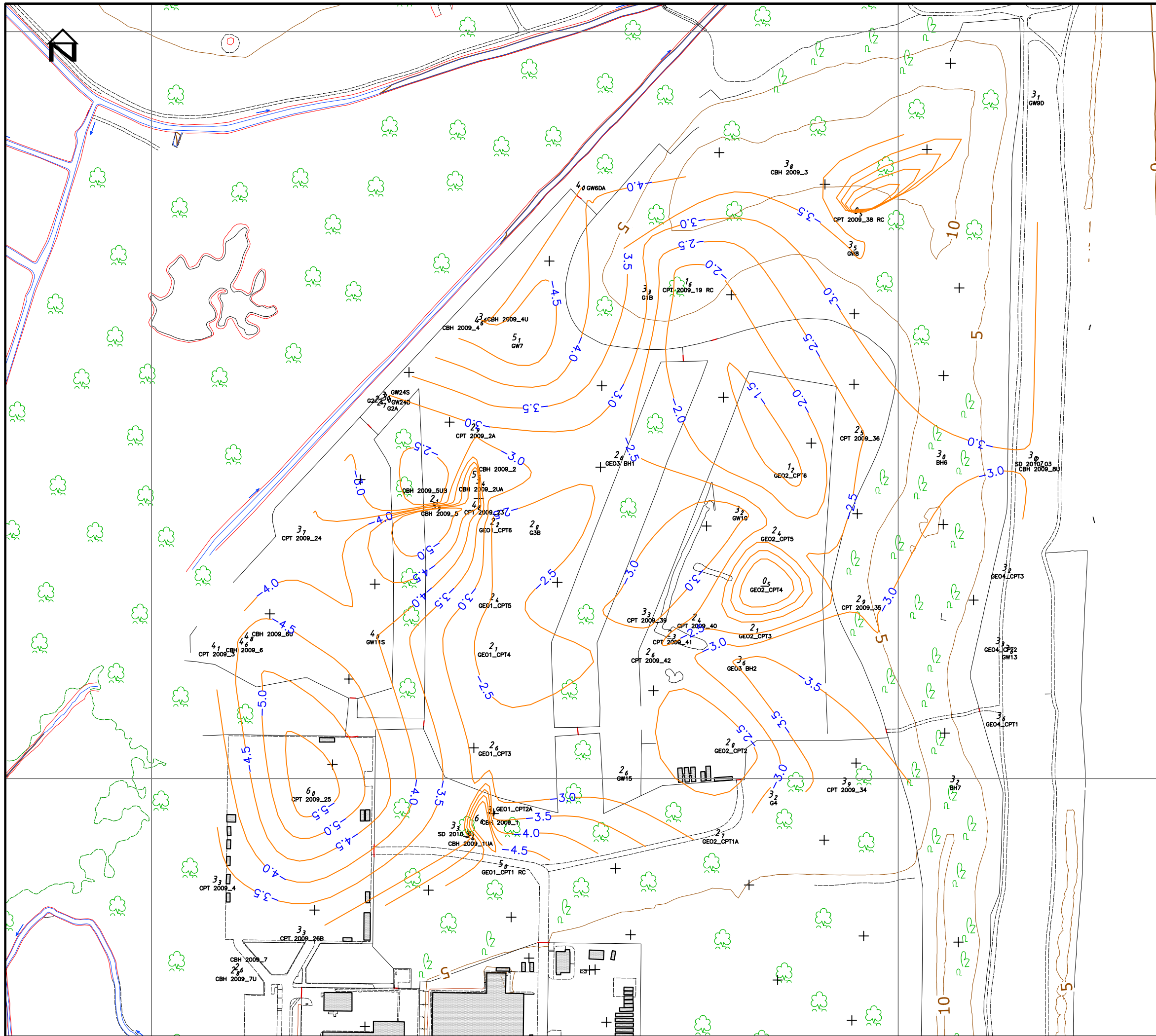
Copyright Environmental Scientifics Group

Notes:

Project: ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No.: A0012-10
Carried out for: NNB Generation Company Limited

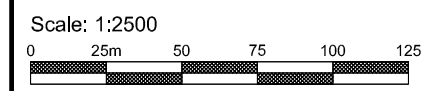
Figure

3.9



GENERAL NOTES

- 9.0 Elevation contour to metres Ordnance Datum
- δ_5 Borehole reference and Top of Recent Cohesive elevation
- CBH 2009_3



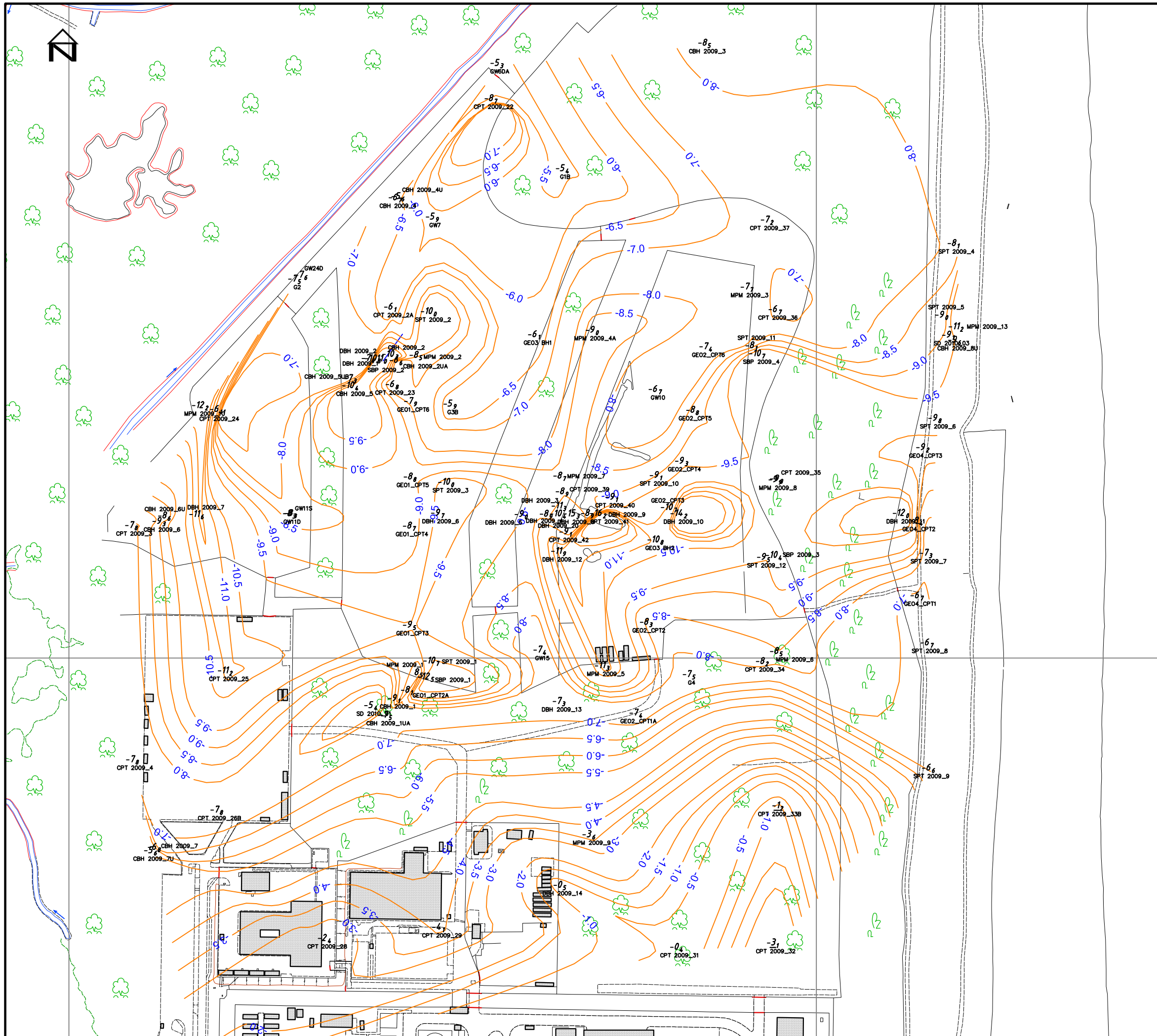
Title
**CONTOUR PLOT -
TOP OF RECENT
COHESIVE DEPOSITS**

Project
**ONSHORE INVESTIGATIONS
PHASE 1 FOR SIZEWELL SITE**

Client
NNB Generation Company Limited

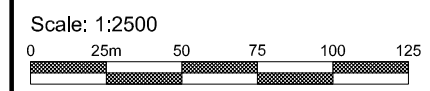


Date 01/04/11	Drawn By AW	Approv. By MT
Sheet Size A3	Scale 1:2500	Project No A0012-10
Figure No 4.1	Rev 0	

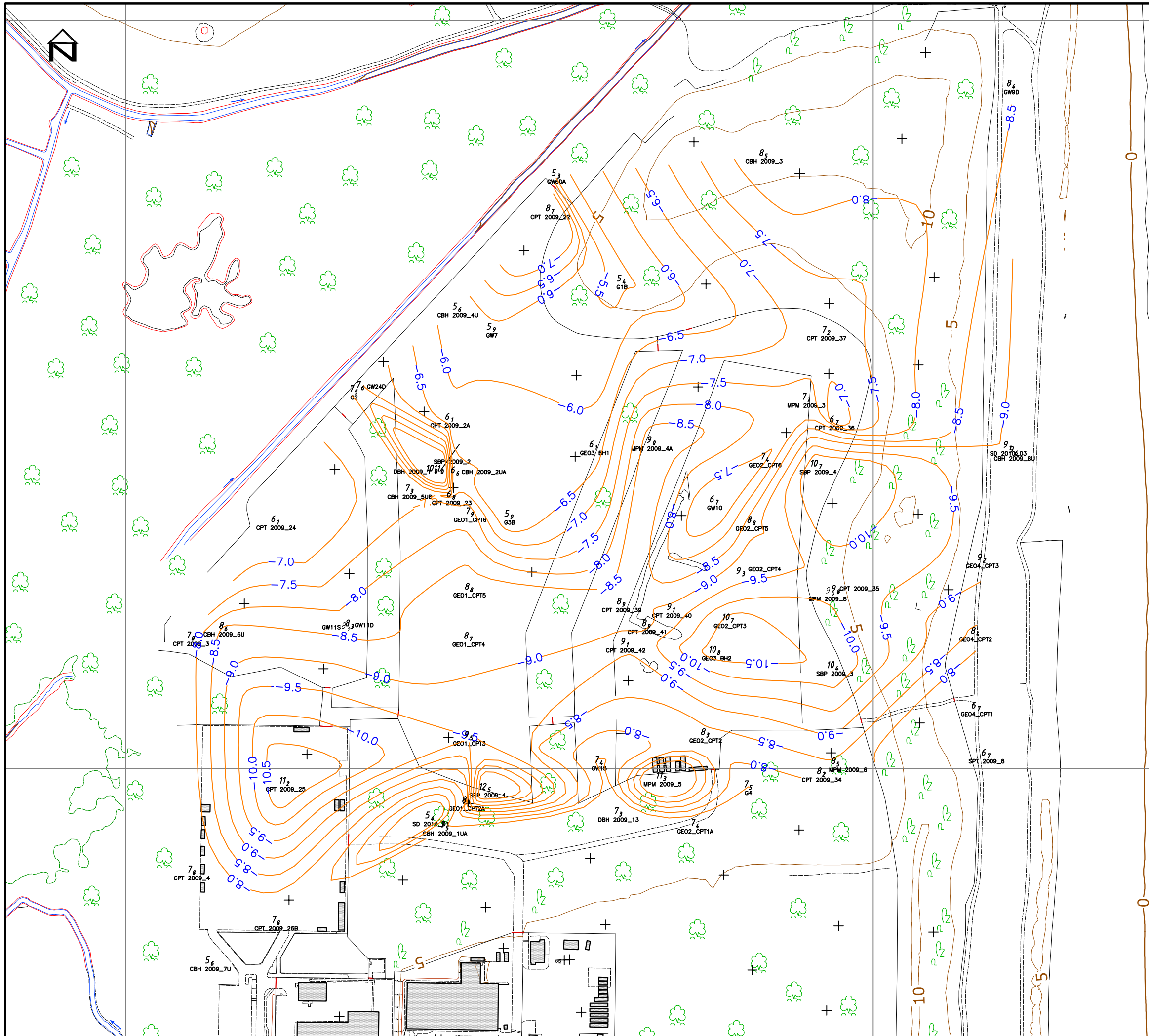


GENERAL NOTES

- -9.0 — Elevation contour to metres Ordnance Datum
- 8₅ CBH 2009_3 Borehole reference and Top of Crag Deposits elevation

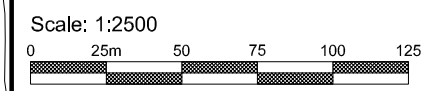


<p>Title</p> <h2 style="margin: 0;">CONTOUR PLOT - TOP OF CRAG DEPOSITS ALL HOLES</h2>		
<p>Project</p> <h3 style="margin: 0;">ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE</h3>		
<p>Client</p> <p style="font-size: 1.2em; margin: 0;">NNB Generation Company Limited</p>		
<p>Date</p> <p style="text-align: center;">24/02/11</p>	<p>Drawn By</p> <p style="text-align: center;">AW</p>	<p>Approv. By</p> <p style="text-align: center;">MT</p>
<p>Sheet Size</p> <p style="text-align: center;">A3</p>	<p>Scale</p> <p style="text-align: center;">1:2500</p>	<p>Project No</p> <p style="text-align: center;">A0012-10</p>
<p>Figure No</p> <p style="text-align: center;">4.2</p>		<p>Rev</p> <p style="text-align: center;">0</p>

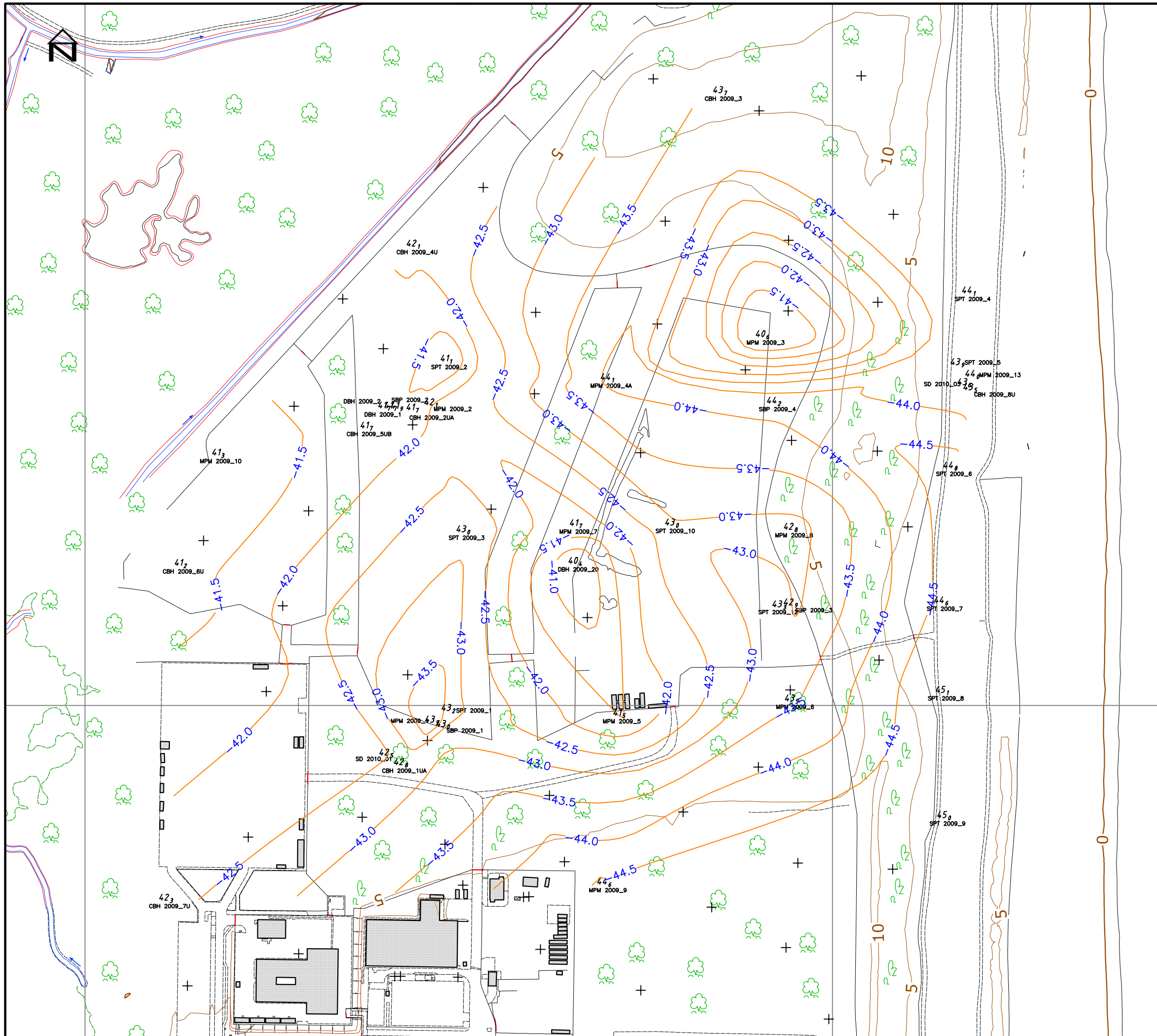


GENERAL NOTES

- 9.0 Elevation contour to metres Ordnance Datum
- δ_5 Borehole reference and Top of Crag Deposits elevation
CBH 2009_3

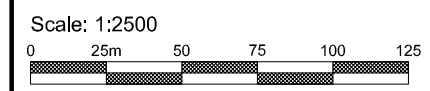


<p>Title</p> <p>CONTOUR PLOT - TOP OF CRAG DEPOSITS SELECTED HOLES</p>		
<p>Project</p> <p>ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE</p>		
<p>Client</p> <p>NNB Generation Company Limited</p>		
<p>Date</p> <p>01/04/11</p>	<p>Drawn By</p> <p>AW</p>	<p>Approv. By</p> <p>MT</p>
<p>Sheet Size</p> <p>A3</p>	<p>Scale</p> <p>1:2500</p>	<p>Project No</p> <p>A0012-10</p>
<p>Figure No</p> <p>4.2A</p>		<p>Rev</p> <p>0</p>



GENERAL NOTES

- 9.0 Elevation contour to metres Ordnance Datum
- δ_5 Borehole reference and Top of London Clay Deposits elevation



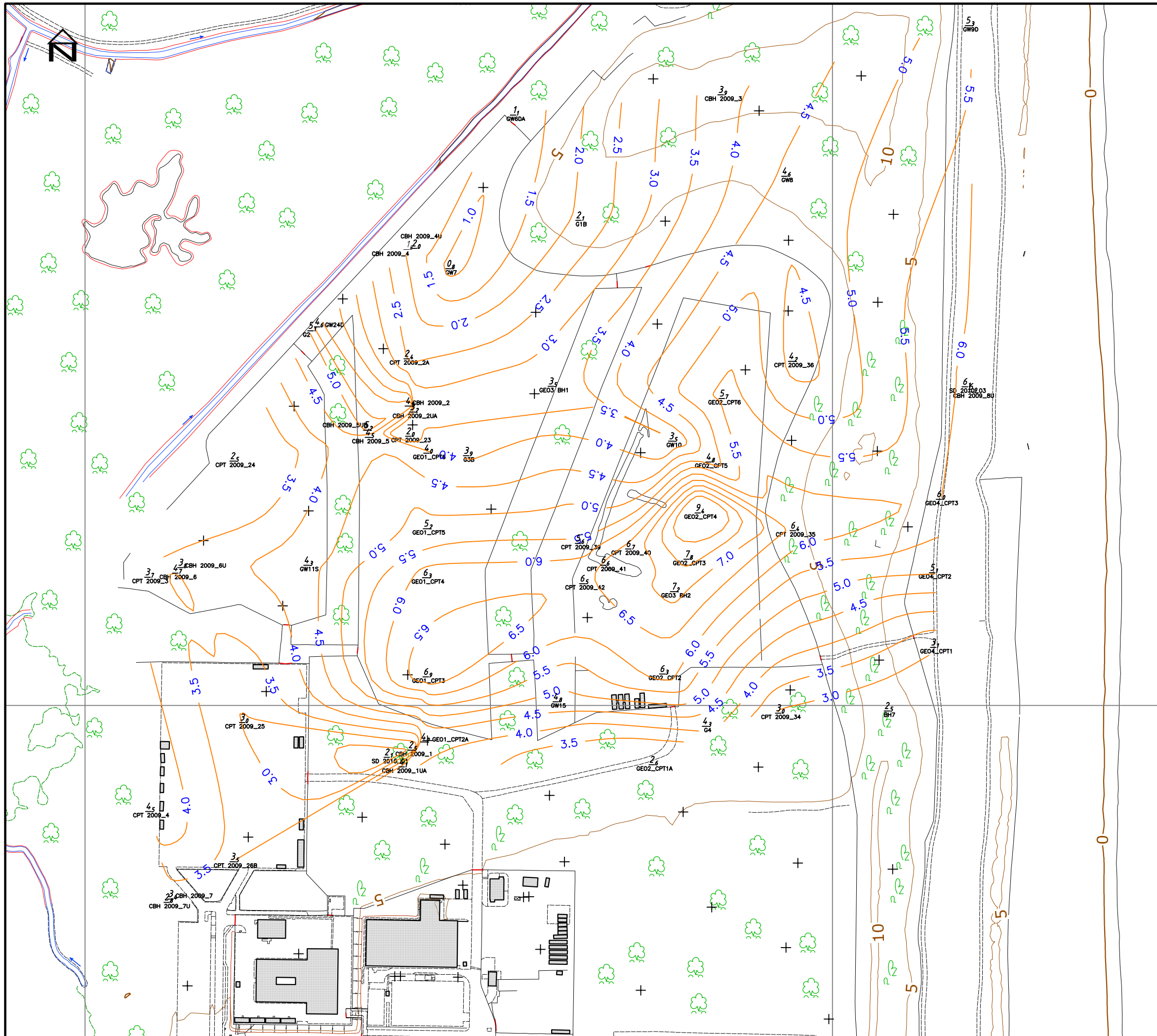
Title
**CONTOUR PLOT -
TOP OF LONDON CLAY DEPOSITS**

Project
**ONSHORE INVESTIGATIONS
PHASE 1 FOR SIZEWELL SITE**

Client
NNB Generation Company Limited

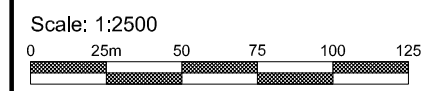


Date 01/04/11	Drawn By AW	Apprv. By MT
Sheet Size A3	Scale 1:2500	Project No A0012-10
Figure No 4.3	Rev 0	



GENERAL NOTES

- 9.0 — Thickness contour in metres
- δ_5 Borehole reference and thickness of recent cohesive deposits
- CBH 2009_3

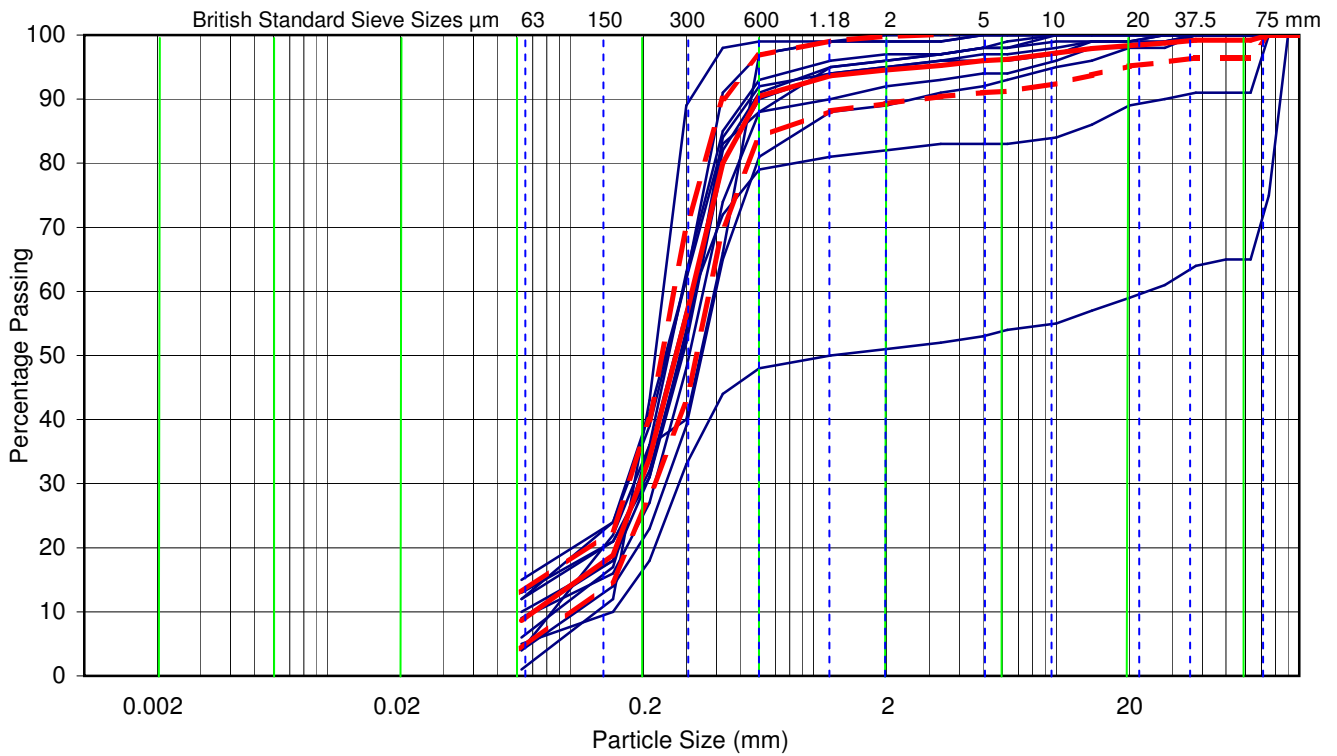


<p>Title</p> <p>ISOPACHYTE - RECENT COHESIVE DEPOSITS</p>		
<p>Project</p> <p>ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE</p>		
<p>Client</p> <p>NNB Generation Company Limited</p>		
<p>Date</p> <p>01/04/11</p>	<p>Drawn By</p> <p>AW</p>	<p>Approv. By</p> <p>MT</p>
<p>Sheet Size</p> <p>A3</p>	<p>Scale</p> <p>1:2500</p>	<p>Project No</p> <p>A0012-10</p>
<p>Figure No</p> <p>5</p>	<p>Rev</p> <p>0</p>	

Particle Size Distribution - Made Ground



Soil Mechanics



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	SILT			SAND			GRAVEL			

Notes: Mean and +/- 1 standard deviation shown for all PSDs where >80% passing 2 mm

Nominal particle size, mm	Percentage passing			
	Minimum	Maximum	Average	Standard deviation
0.063	1	15	8.6	4.4
0.150	12	24	18.8	3.9
0.212	23	43	34.0	6.0
0.300	39	89	56.3	13.6
0.425	65	98	80.0	10.1
0.60	79	99	90.5	6.3
1.18	81	99	93.6	5.5
2.00	82	100	94.5	5.2
3.35	83	100	95.3	4.8
5.0	83	100	96.0	5.0
6.3	83	100	96.2	5.0
10	84	100	97.2	4.7
14	86	100	97.9	4.1
20	89	100	98.4	3.2
28	90	100	98.7	3.0
37.5	91	100	99.2	2.7
50	91	100	99.2	2.7
63	91	100	99.2	2.7
75	100	100	100.0	0.0
90	100	100	100.0	0.0
125	100	100	100.0	0.0

Notes:

Project **ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE**
 Project No. **A0012-10**
 Carried out for **NNB Generation Company Limited**

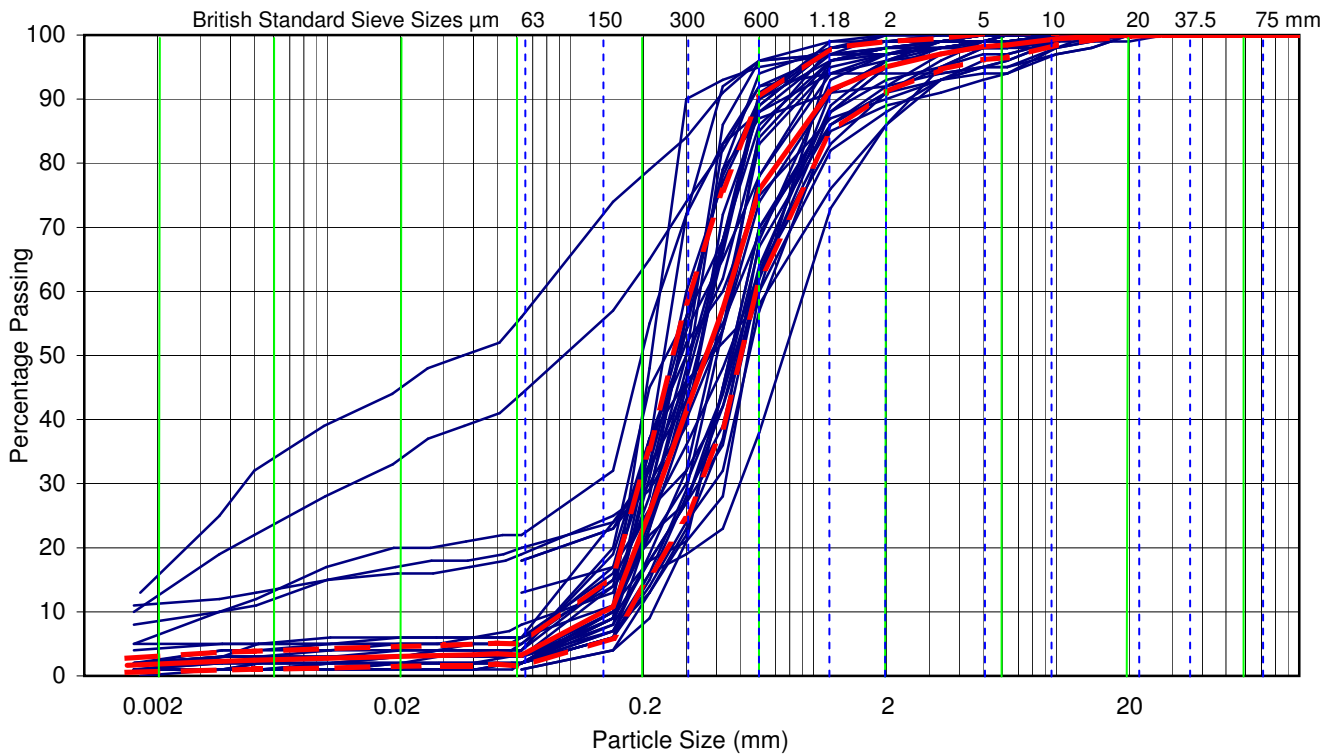
Figure

6.1

Particle Size Distribution - Crag Deposits



Soil Mechanics



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	SILT			SAND			GRAVEL			

Notes: Mean and ± 1 standard deviation shown for all PSDs where $<10\%$ passing 63 μm

Nominal particle	Percentage passing			
	Minimum	Maximum	Average	Standard deviation
0.0015	0	5	1.6	1.1
0.0035	1	5	2.3	1.4
0.005	1	5	2.5	1.4
0.01	1	6	2.7	1.5
0.02	1	6	3.0	1.6
0.03	1	6	3.2	1.6
0.04	1	6	3.3	1.7
0.05	1	7	3.5	1.6
0.063	1	8	3.2	1.7
0.15	4	24	10.8	4.9
0.212	9	48	25.5	9.9
0.3	19	90	41.3	16.8
0.425	23	93	57.2	18.6
0.6	38	96	75.9	14.4
1.18	73	98	91.5	6.6
2	86	100	95.1	3.9
3.35	91	100	97.1	2.4
5	93	100	98.2	2.0
6.3	94	100	98.5	1.9
10	97	100	99.4	0.9
14	98	100	99.8	0.5
20	99	100	100.0	0.2
Prepared: 25/03/2011 15	100	100	100.0	0.0

Notes:

Project **ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE**
 Project No. **A0012-10**
 Carried out for **NNB Generation Company Limited**

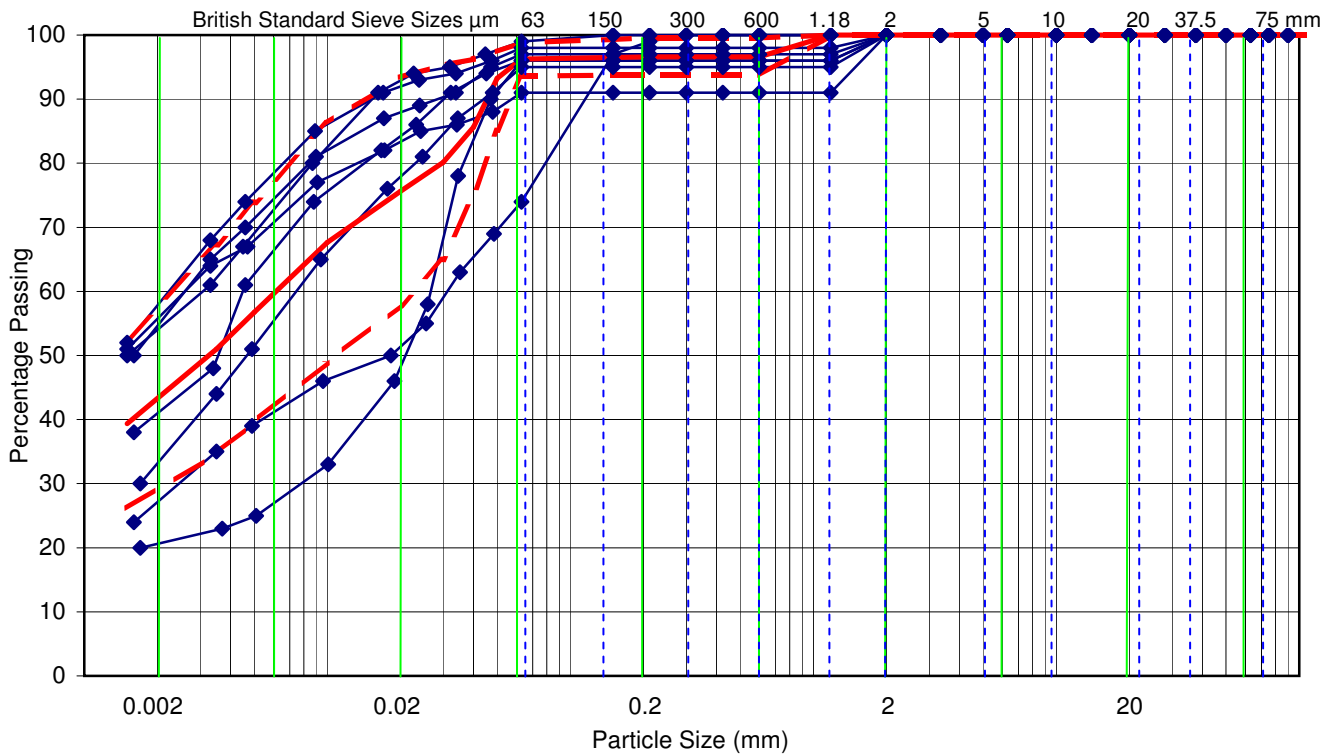
Figure

6.3

Particle Size Distribution - Lower London Tertiaries Clay



Soil Mechanics



CLAY	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	COBBLES
	SILT			SAND			GRAVEL			

Notes: Mean and +/- 1 standard deviation shown for all PSDs where <10% passing 63um

Nominal particle	Percentage passing			
	Minimum	Maximum	Average	Standard deviation
0.0015	20	52	39.4	13.2
0.0035	23	68	51.0	16.3
0.005	25	74	56.8	17.1
0.01	33	85	67.6	18.7
0.02	46	91	75.6	17.8
0.03	55	94	80.1	15.2
0.04	63	95	85.6	10.6
0.05	74	99	93.3	8.1
0.063	91	100	96.3	2.6
0.15	91	100	96.5	2.8
0.212	91	100	96.6	2.9
0.3	91	100	96.6	2.9
0.425	91	100	96.6	2.9
0.6	91	100	96.6	2.9
1.18	100	100	100.0	0.0
2	100	100	100.0	0.0
3.35	100	100	100.0	0.0
5	100	100	100.0	0.0
6.3	100	100	100.0	0.0
10	100	100	100.0	0.0
14	100	100	100.0	0.0
20	100	100	100.0	0.0
Prepared: 25/03/2011 17	100	100	100.0	0.0

Notes:

Project **ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE**
 Project No. **A0012-10**
 Carried out for **NNB Generation Company Limited**

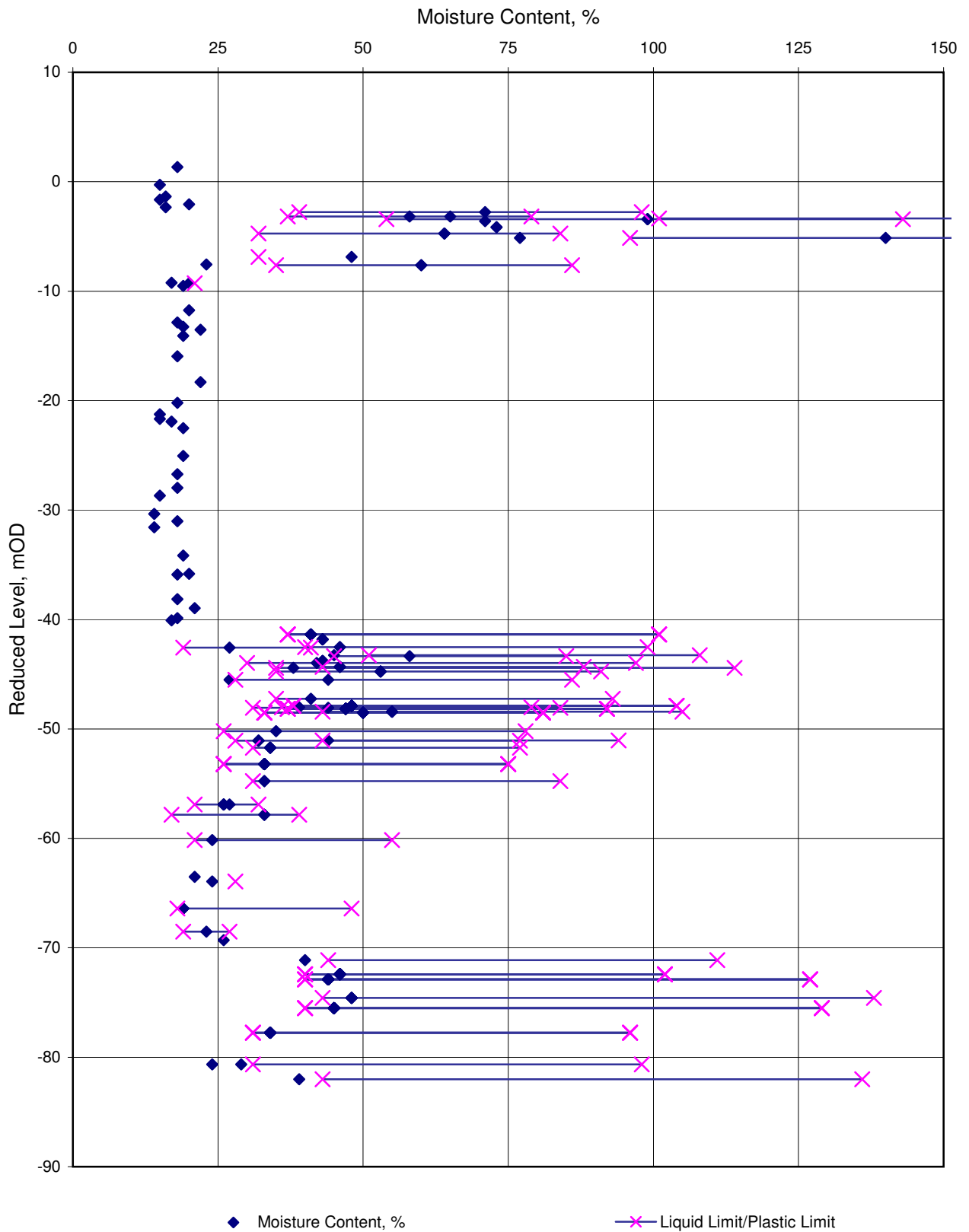
Figure

6.5

Moisture Content and Atterberg Limits Profile - All Strata



Soil Mechanics



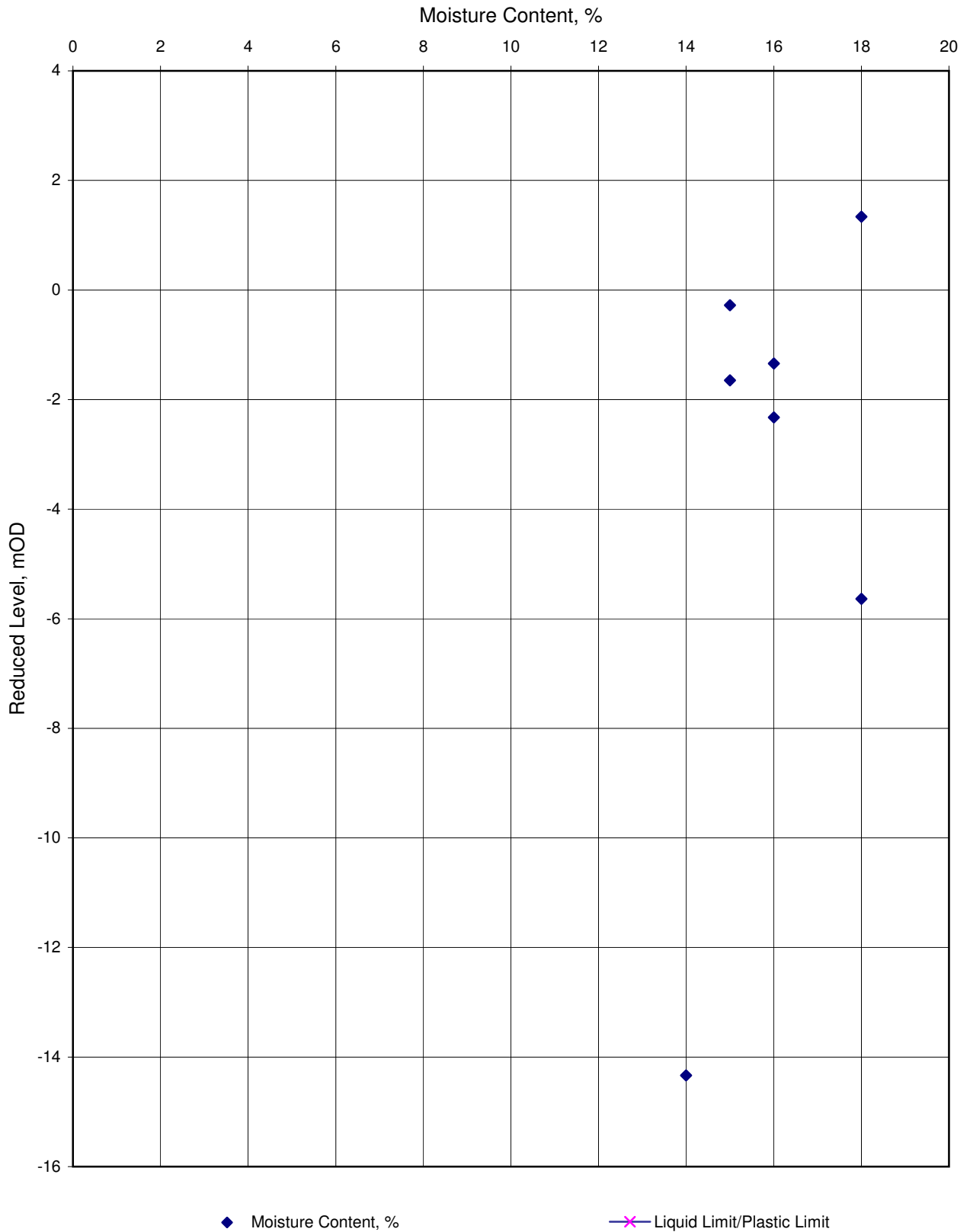
Prepared: 25/03/2011 14:01

Notes:	Project: ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No.: A0012-10 Carried out for: NNB Generation Company Limited	Figure: 7.1
--------	---	-------------

Moisture Content and Atterberg Limits Profile - Made Ground



Soil Mechanics



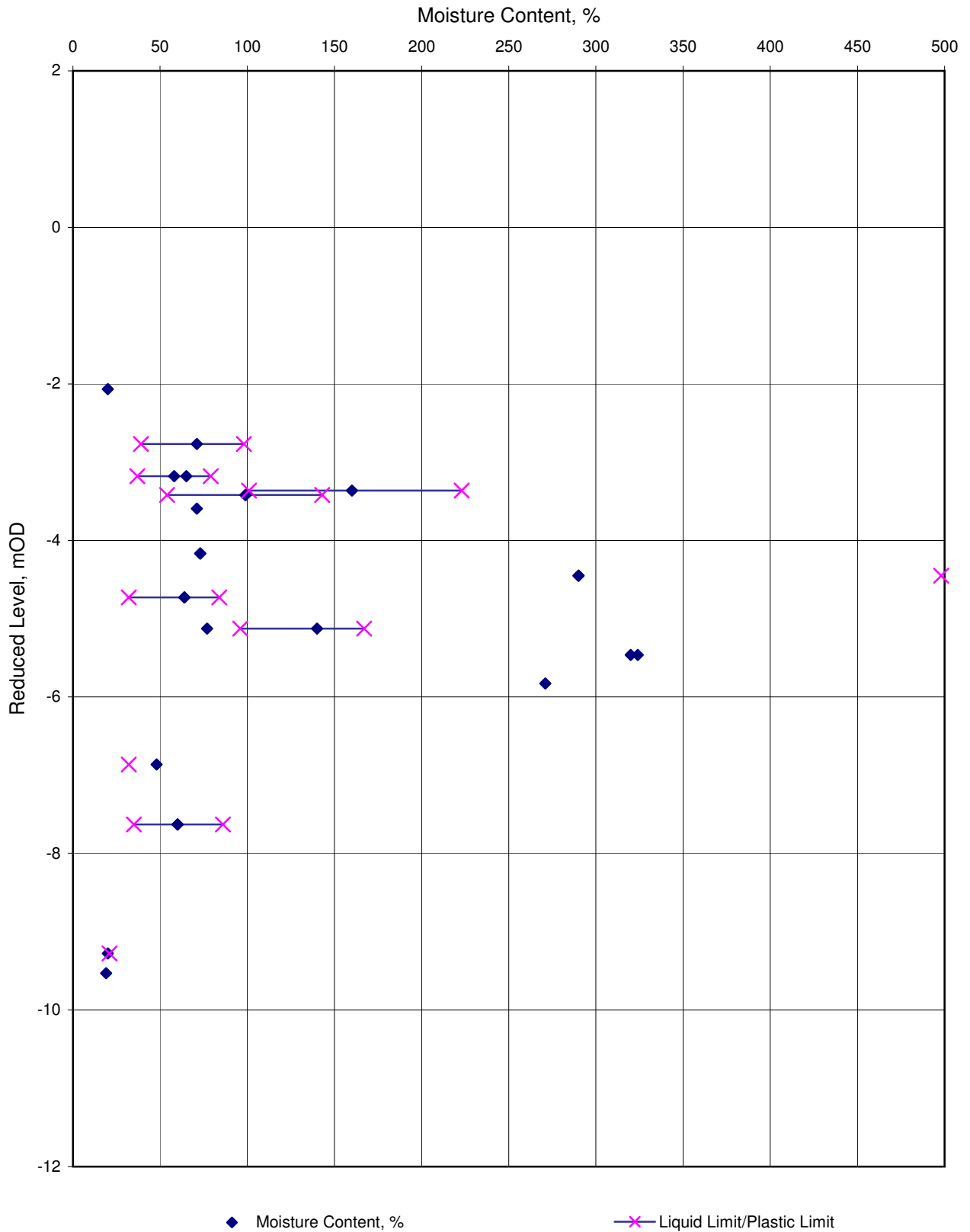
Prepared: 24/03/2011 17:43

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Figure 7.2
--------	--	------------

Moisture Content and Atterberg Limits Profile - Recent Deposits



Soil Mechanics



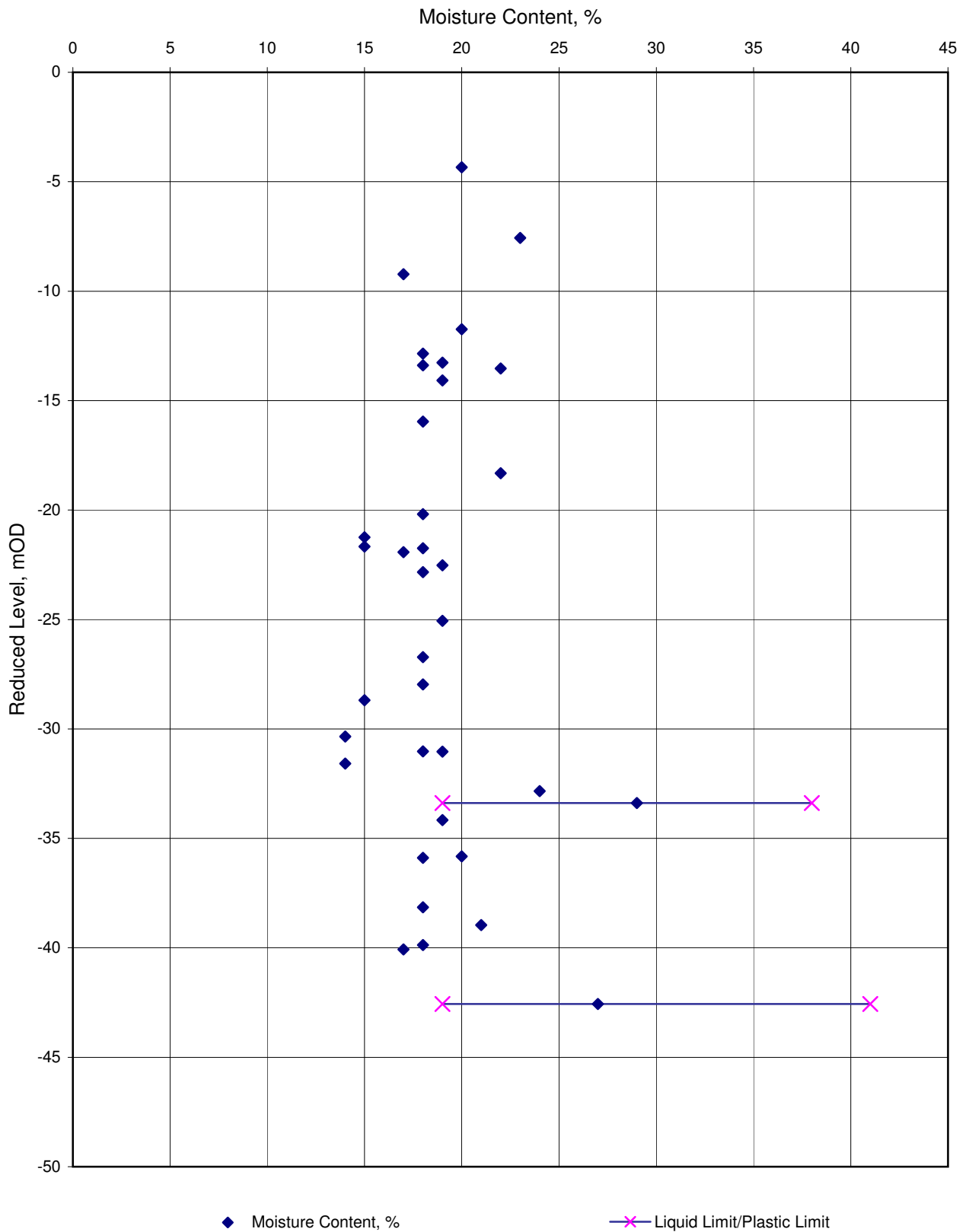
Prepared: 24/03/2011 17:43

<p>Notes: Values > 500% not shown</p>	<p>Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited</p>	<p>Figure 7.3</p>
--	---	-------------------

Moisture Content and Atterberg Limits Profile - Crag Deposits



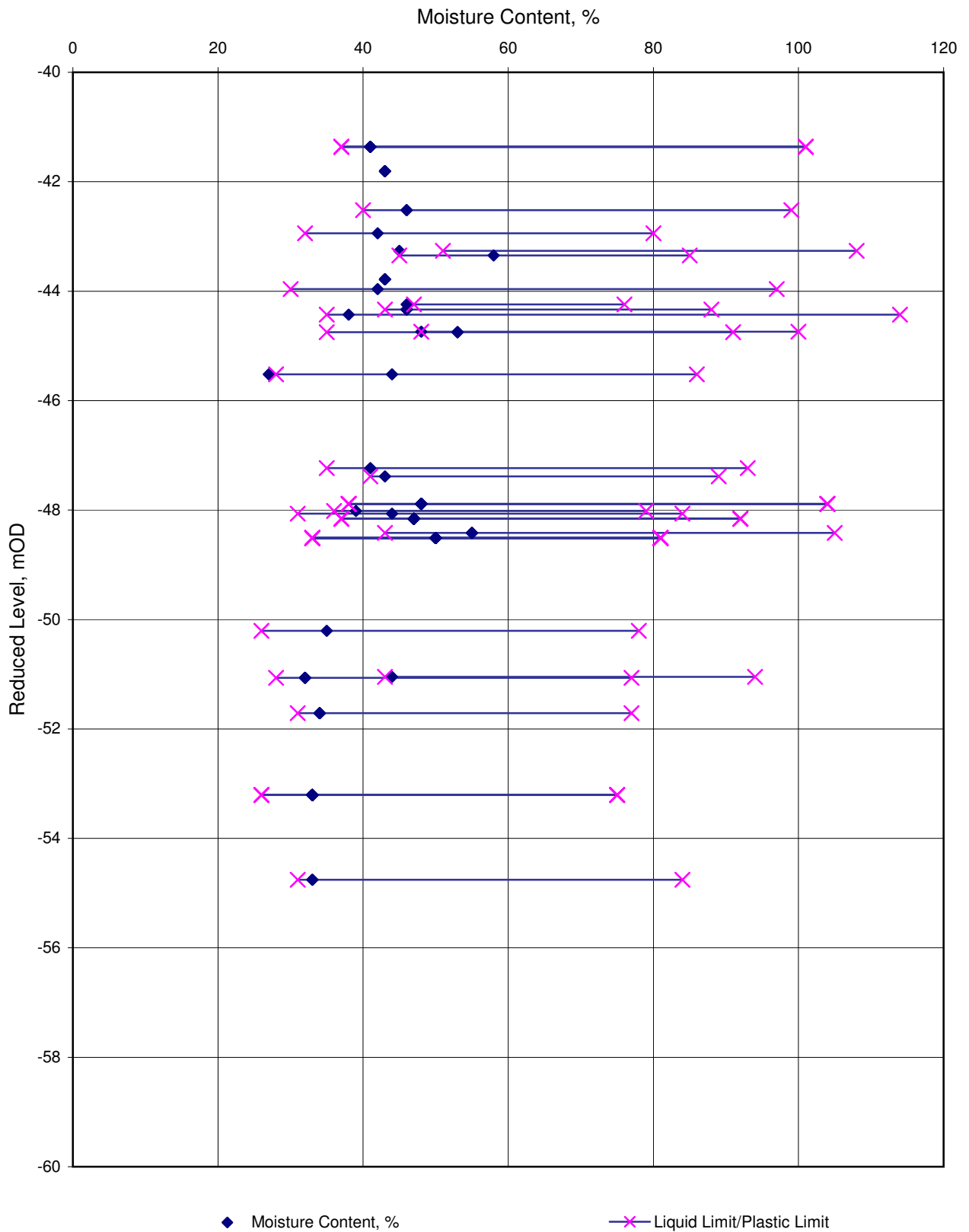
Soil Mechanics



Moisture Content and Atterberg Limits Profile - London Clay



Soil Mechanics



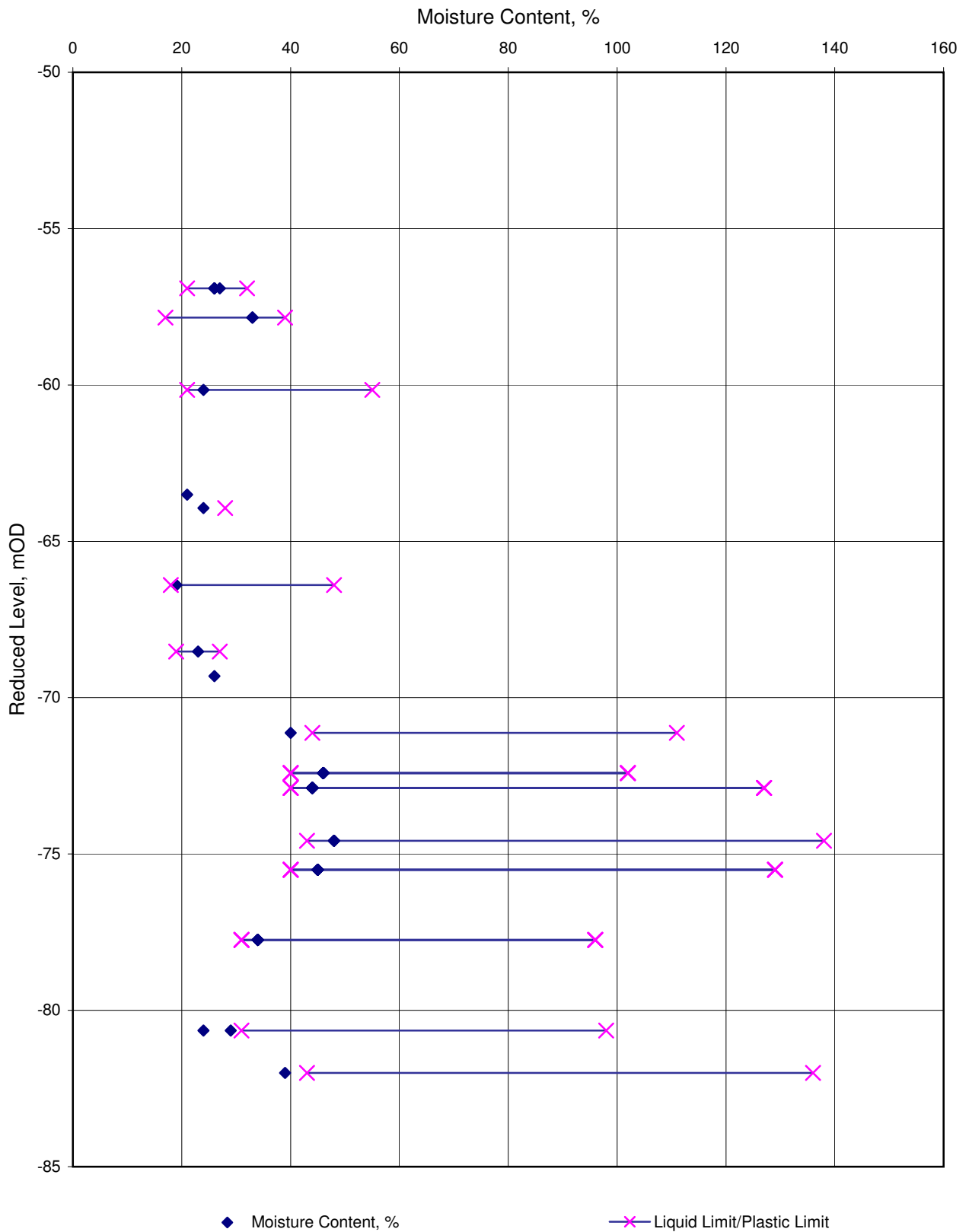
Prepared: 24/03/2011 17:43

Notes:	Project: ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No.: A0012-10 Carried out for: NNB Generation Company Limited	Figure: 7.5
--------	---	-------------

Moisture Content and Atterberg Limits Profile - Lower London Tertiaries



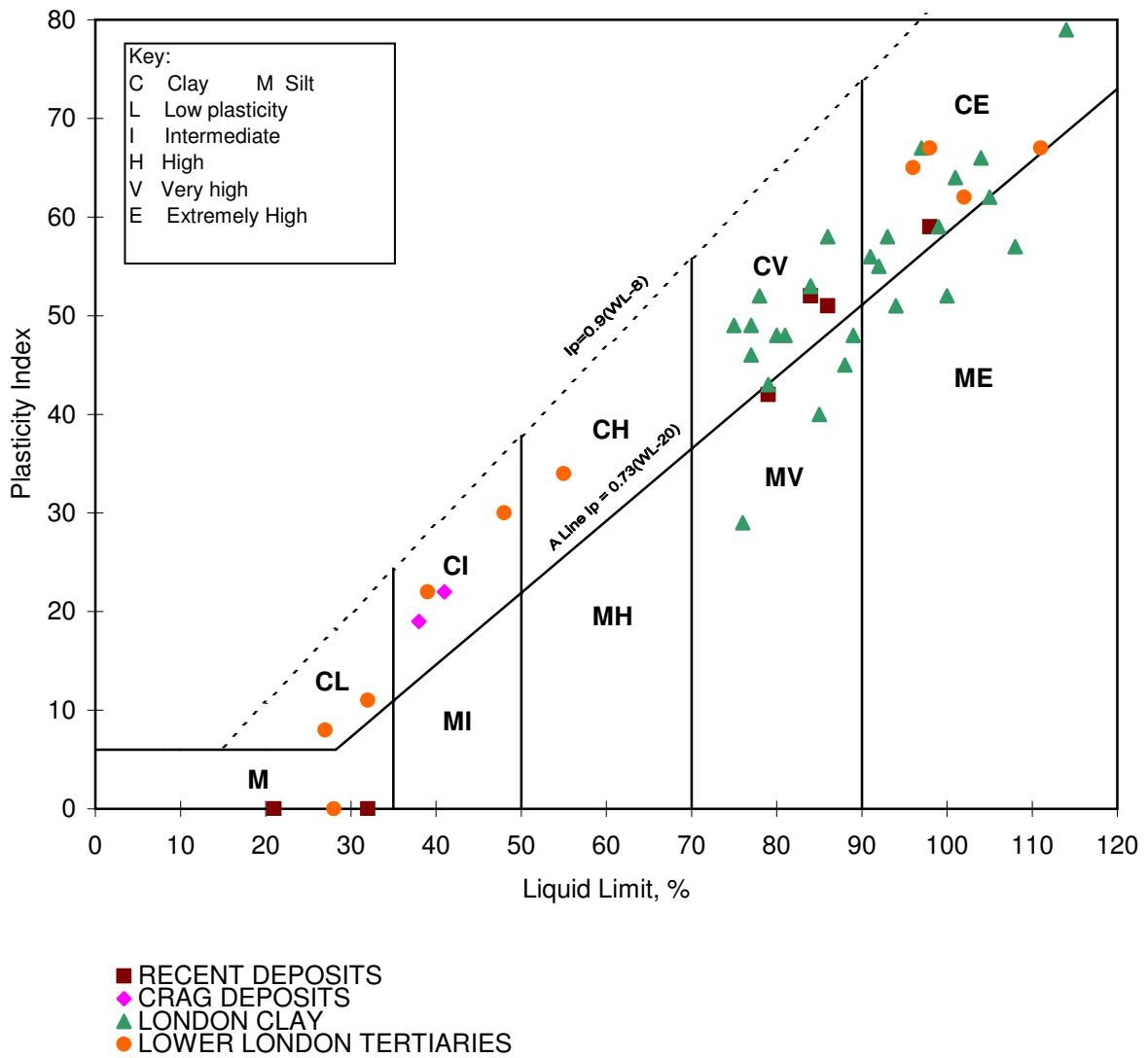
Soil Mechanics



Prepared: 24/03/2011 17:43

Notes:	Project: ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No.: A0012-10 Carried out for: NNB Generation Company Limited	Figure: 7.6
--------	---	-------------

Plasticity Chart - All Strata



Notes: Liquid Limit values >120 not shown

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No. A0012-10
 Carried out for NNB Generation Company Limited

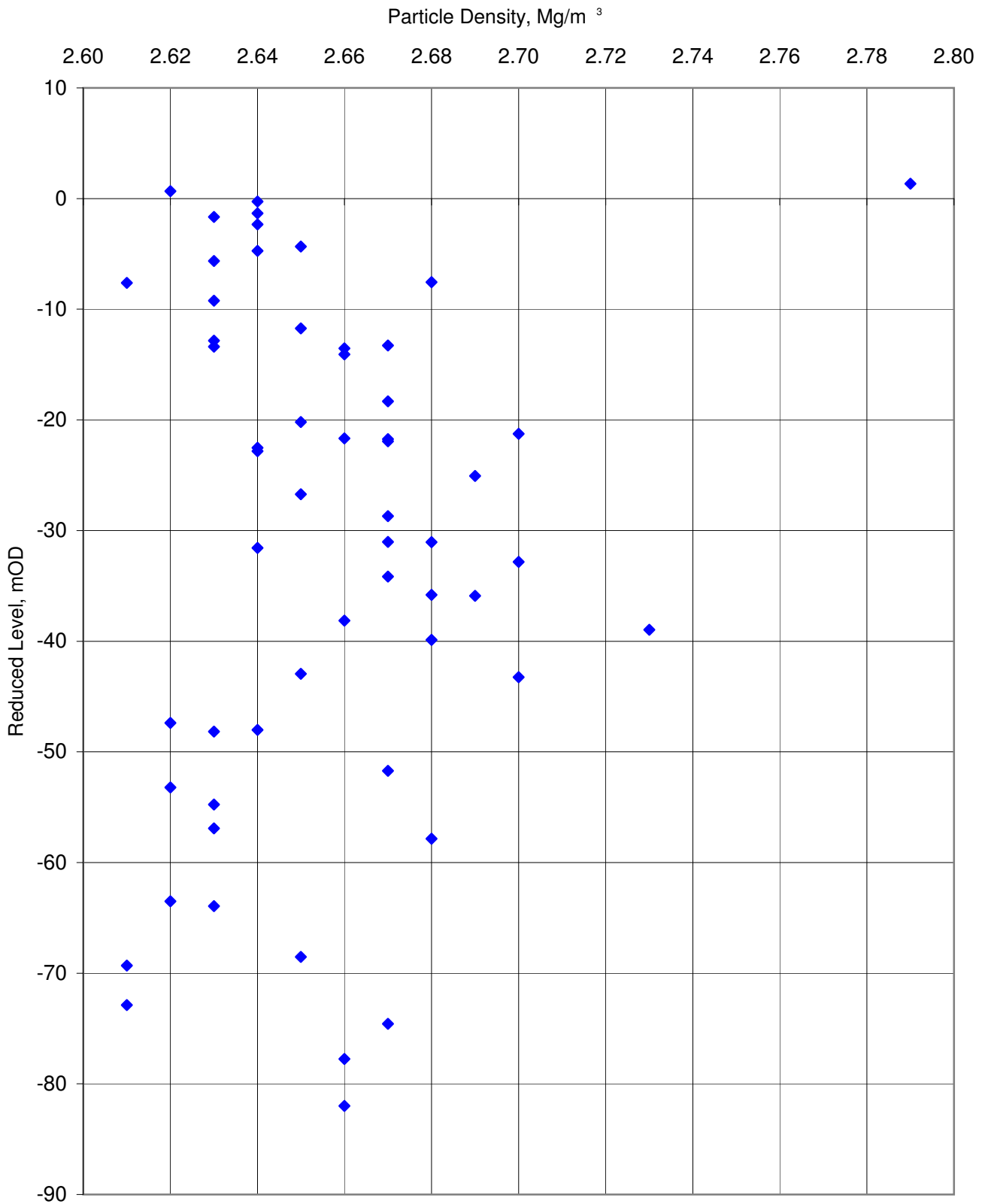
Figure

8

Particle Density - All Strata



Soil Mechanics



Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No. A0012-10
 Carried out for NNB Generation Company Limited

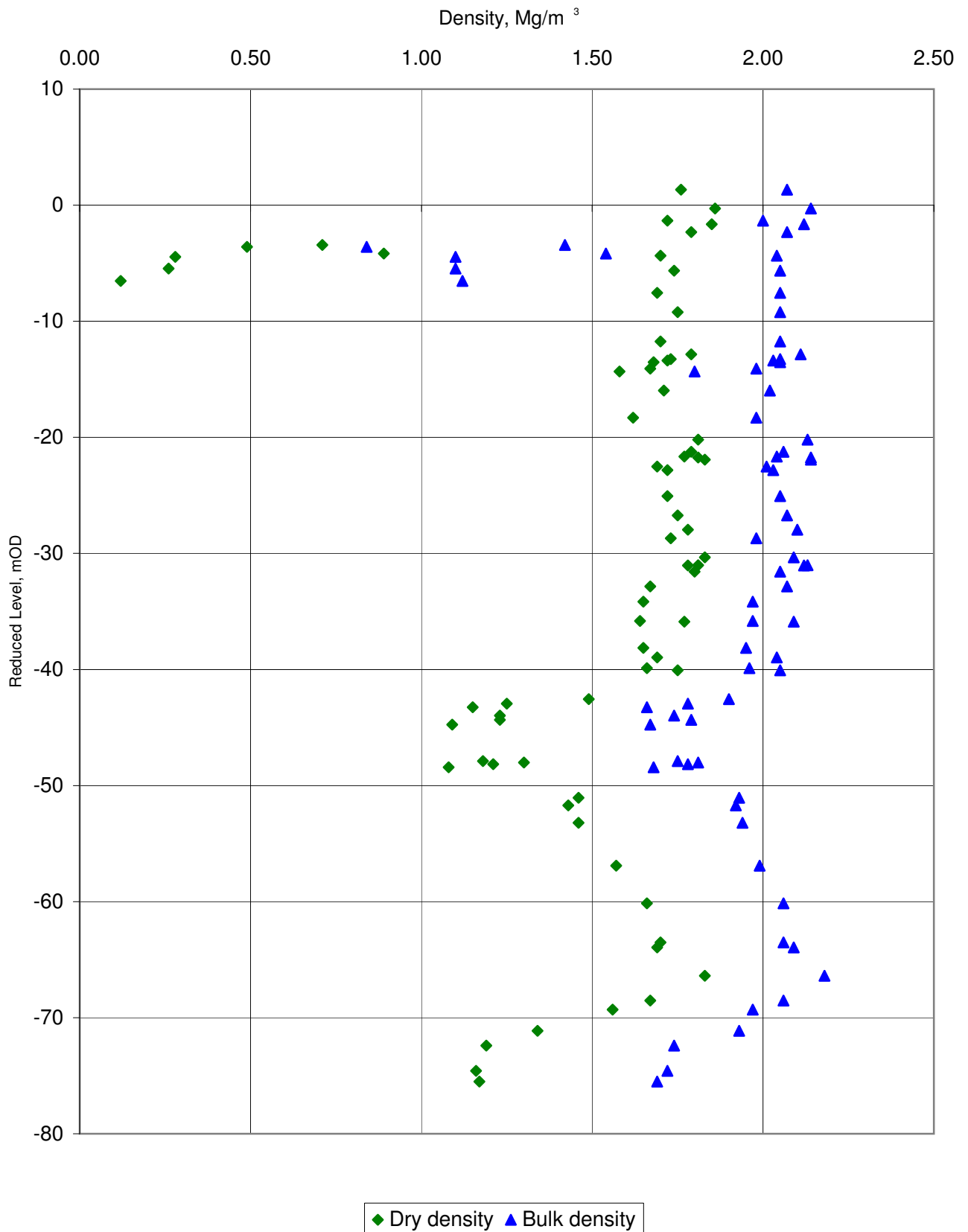
Figure

9

Bulk and Dry Density - All Strata



Soil Mechanics



Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No. A0012-10
 Carried out for NNB Generation Company Limited

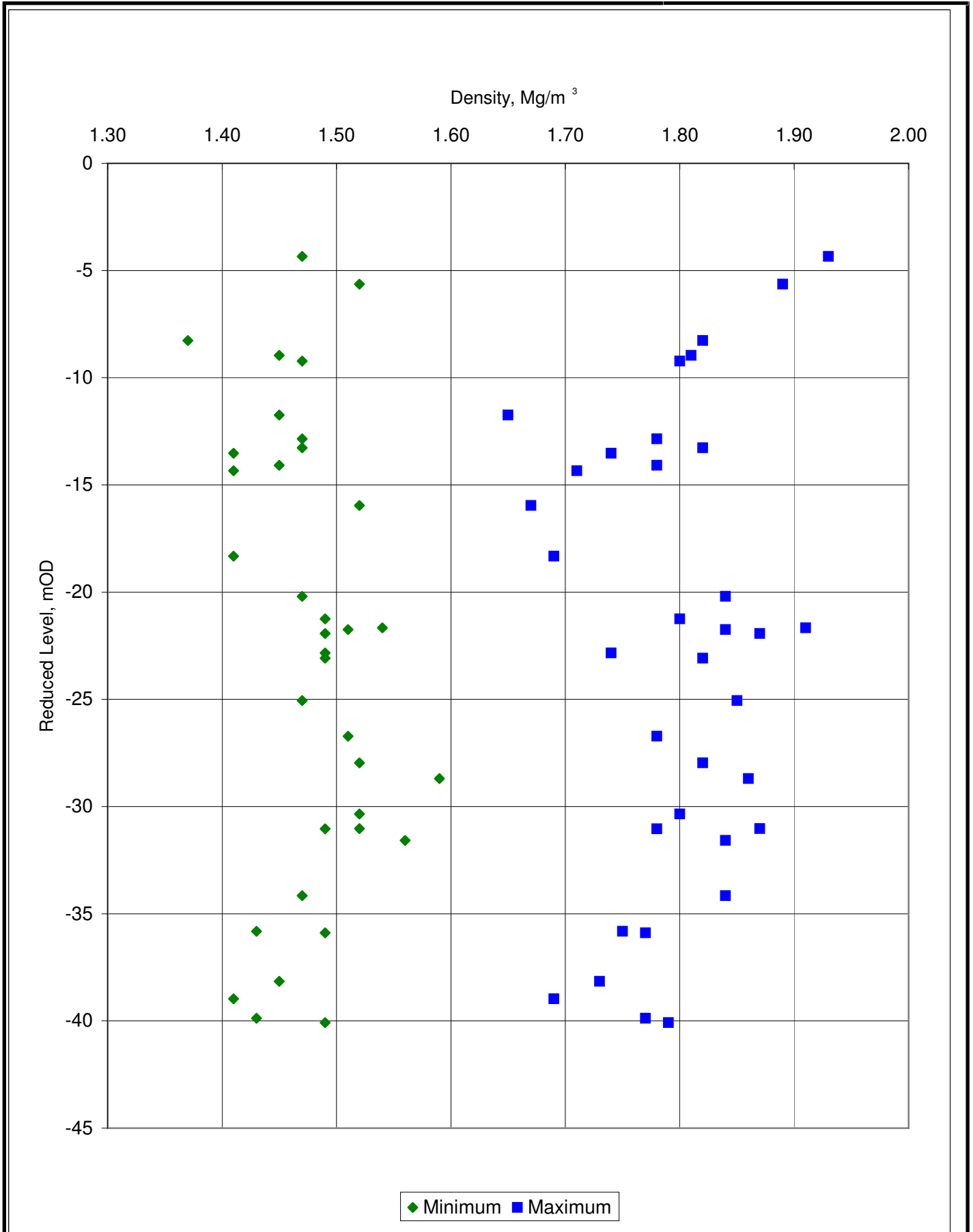
Figure

10

Minimum and Maximum Dry Density - Crag Deposits



Soil Mechanics



Notes:

Project: ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No.: A0012-10
 Carried out for: NNB Generation Company Limited

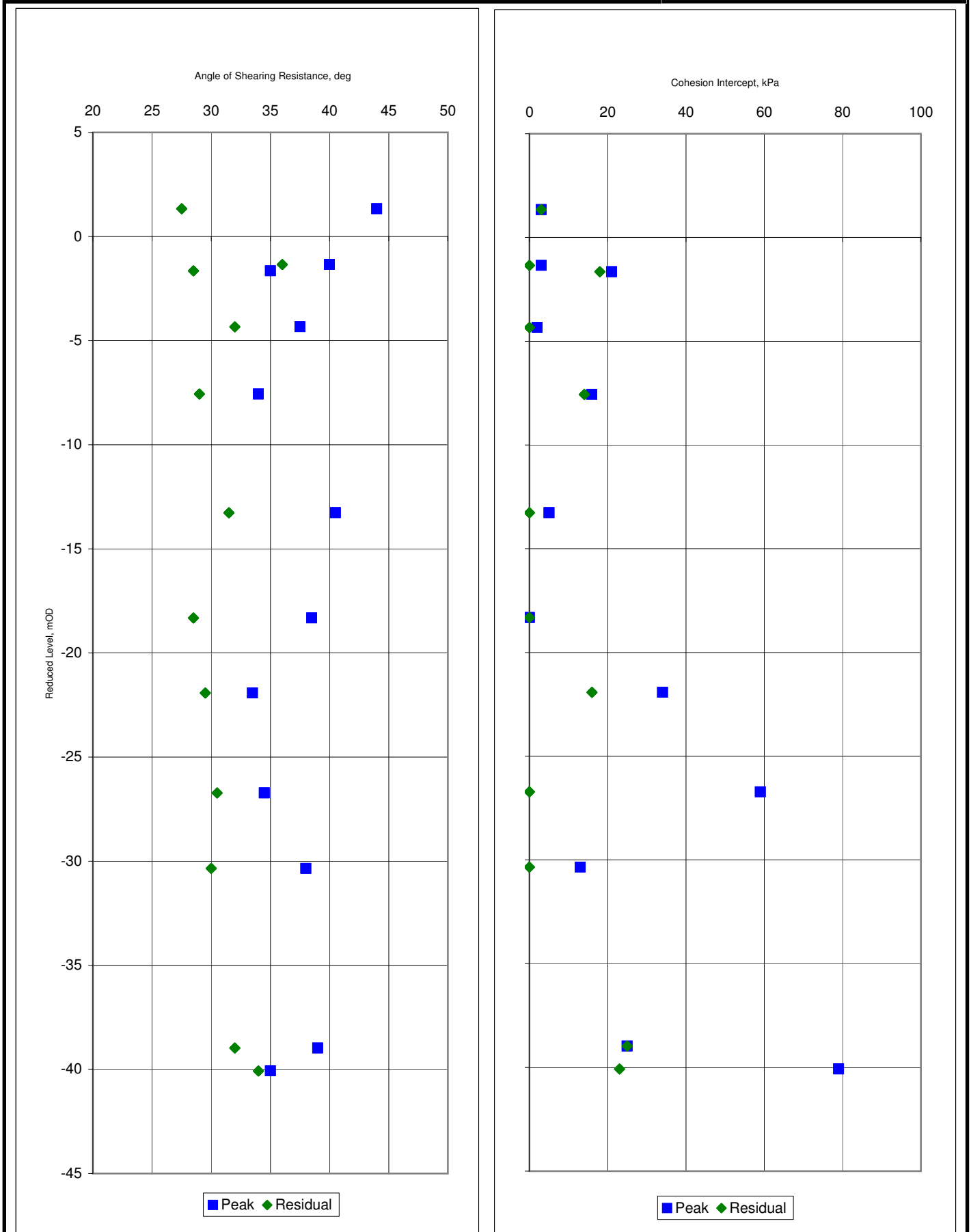
Figure

11

Shear Strength (Direct Shear) - Crag Deposits



Soil Mechanics



Notes:

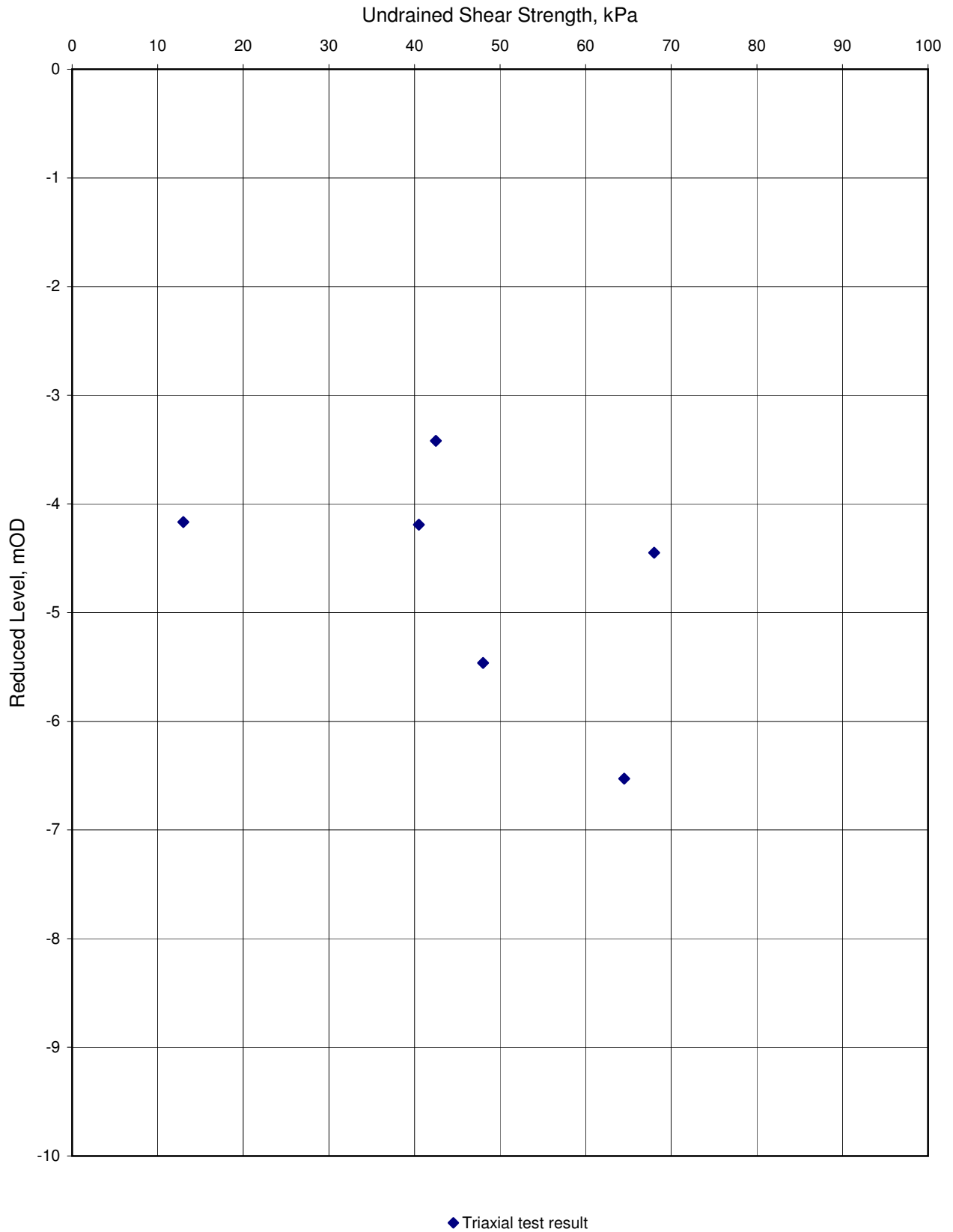
Project: ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No.: A0012-10
 Carried out for: NNB Generation Company Limited

Figure 12

Undrained Shear Strength Profile - Recent Deposits



Soil Mechanics



Prepared: 18/05/2011 11:41

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No. A0012-10
 Carried out for NNB Generation Company Limited

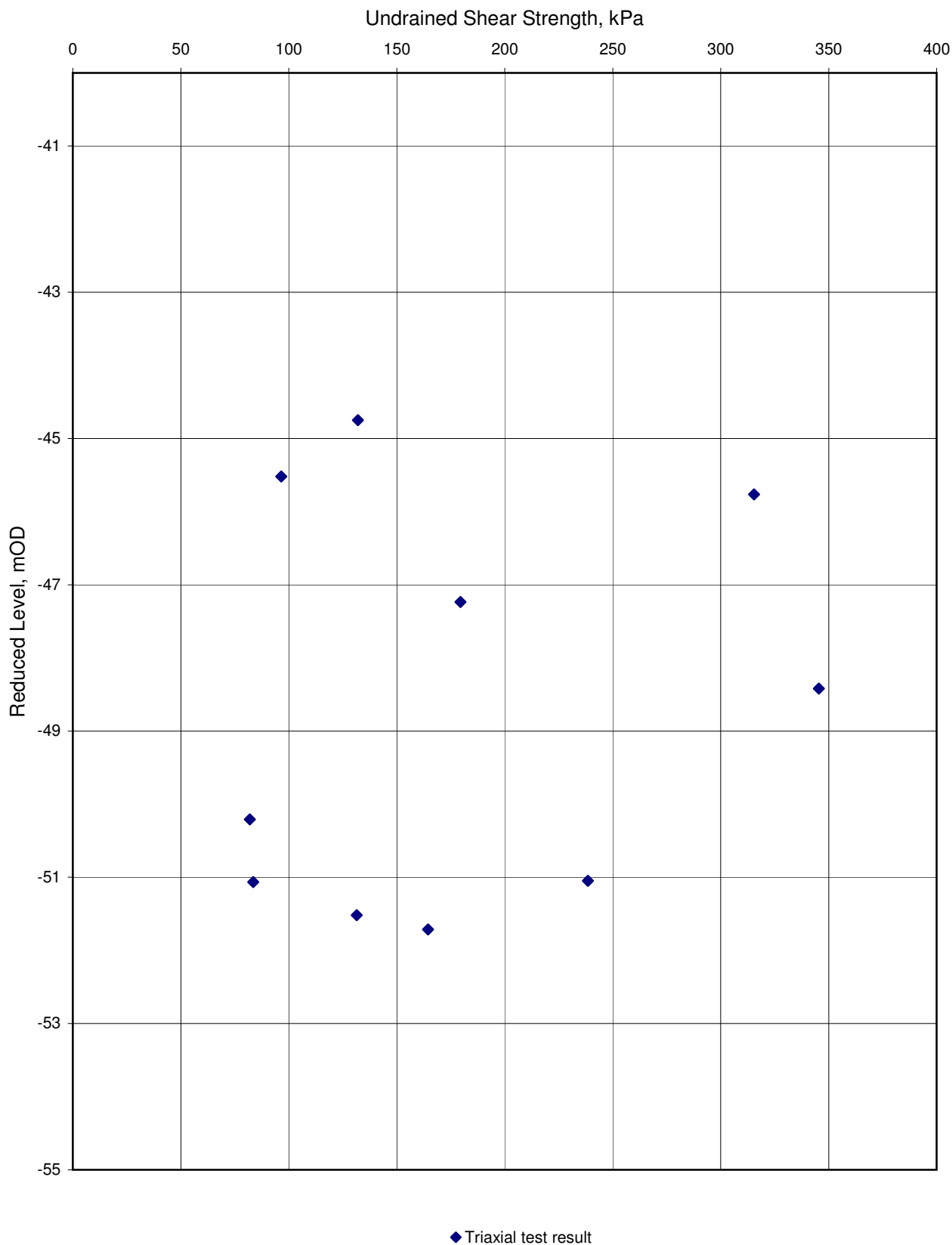
Figure

13.1

Undrained Shear Strength Profile - London Clay



Soil Mechanics



Prepared: 18/05/2011 11:41

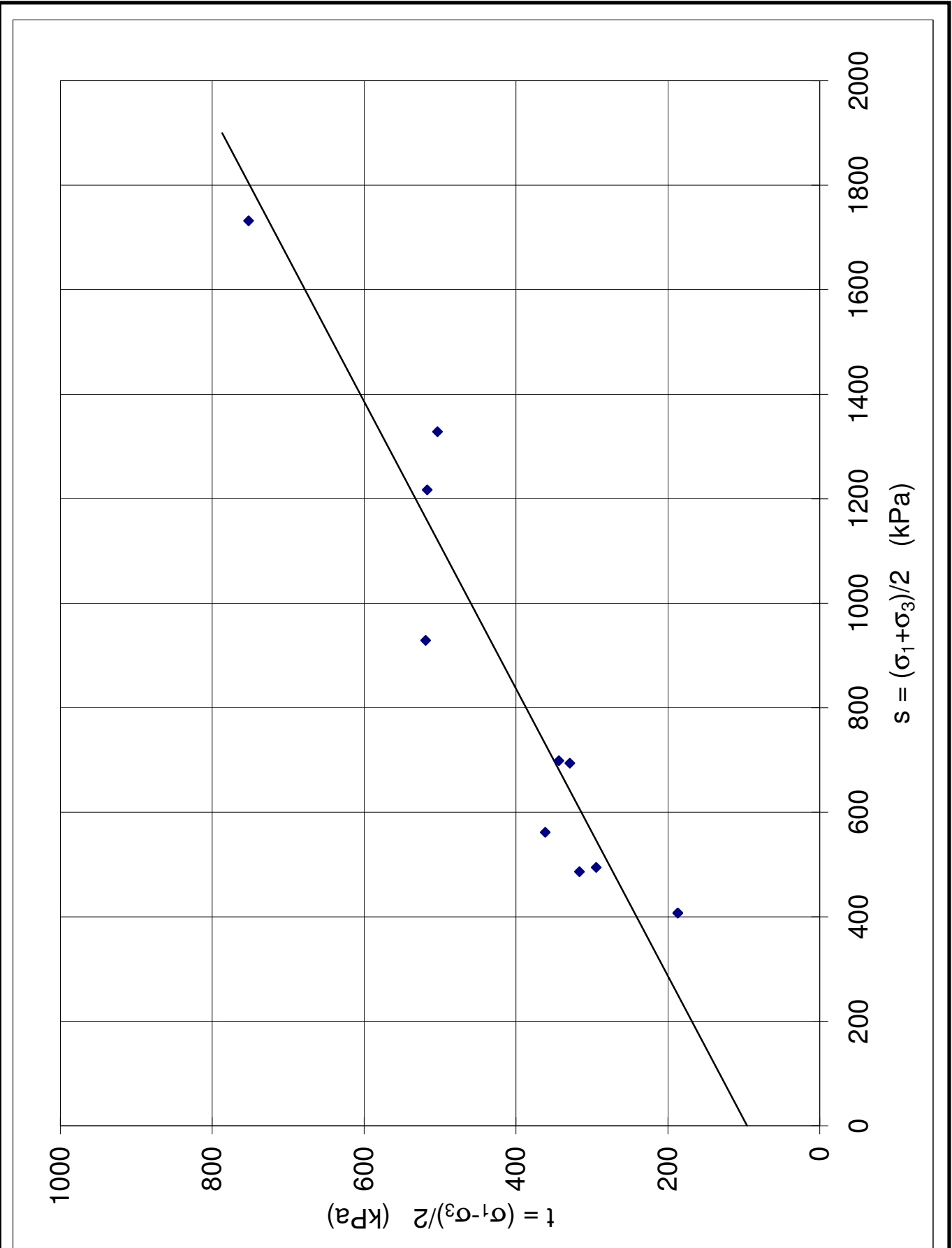
Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No. A0012-10
 Carried out for NNB Generation Company Limited

Figure

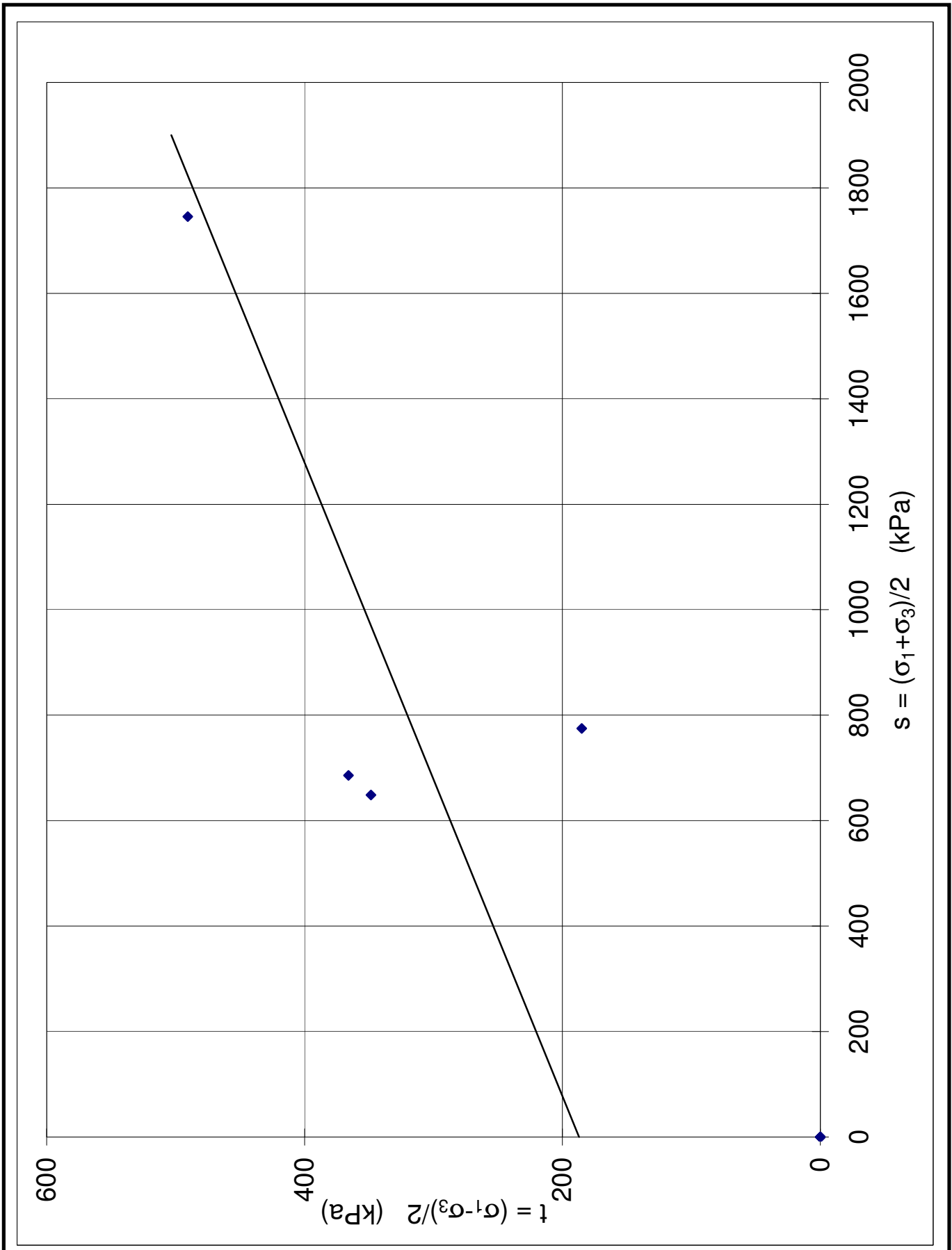
13.2

Summary of Effective Stress Tests - London Clay



Notes:	<p>Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE</p> <p>Project No. A0012-10</p> <p>Carried out for NNB Generation Company Limited</p>	<p>Figure</p> <p>14.1</p>
--------	--	---

Summary of Effective Stress Tests - Lower London Tertiaries



Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No. A0012-10
 Carried out for NNB Generation Company Limited

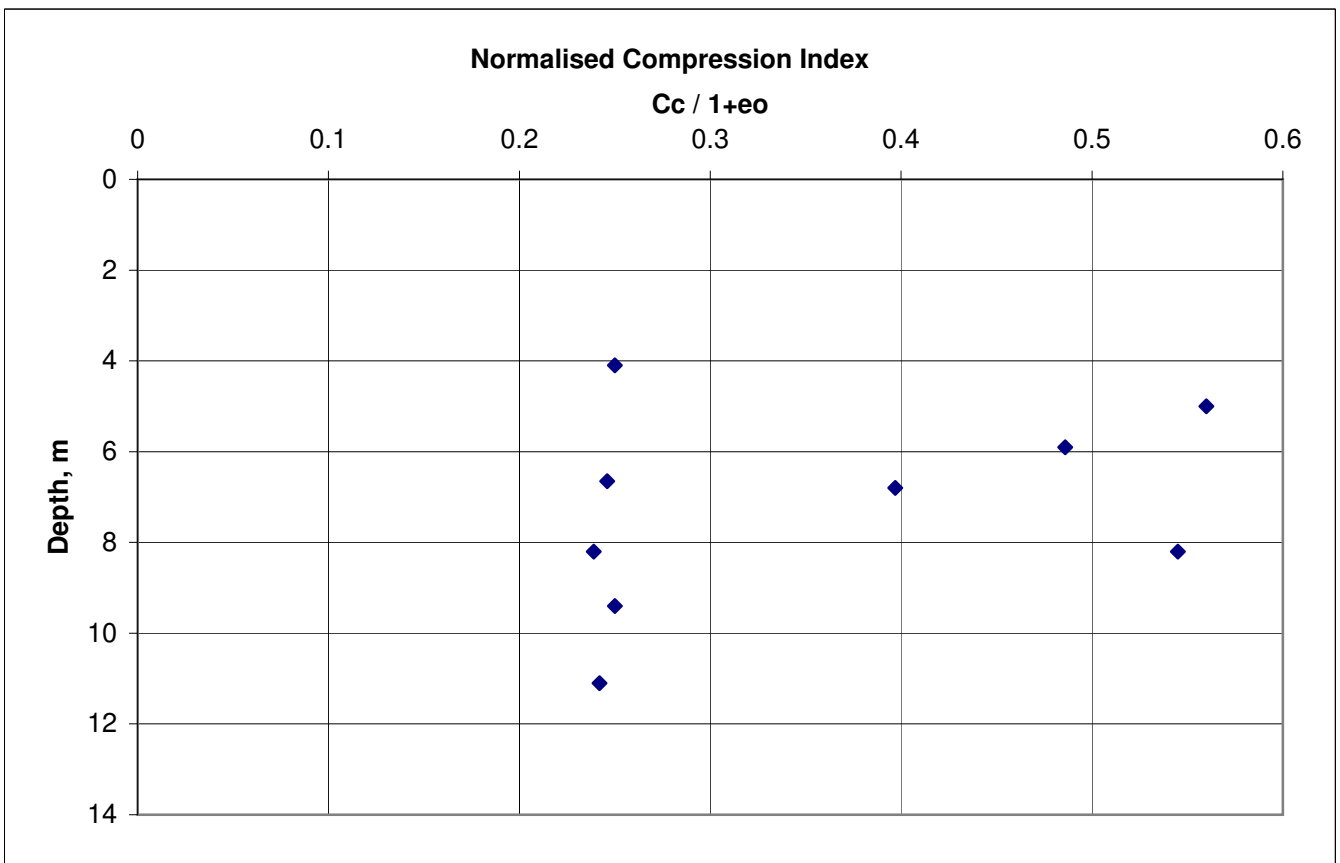
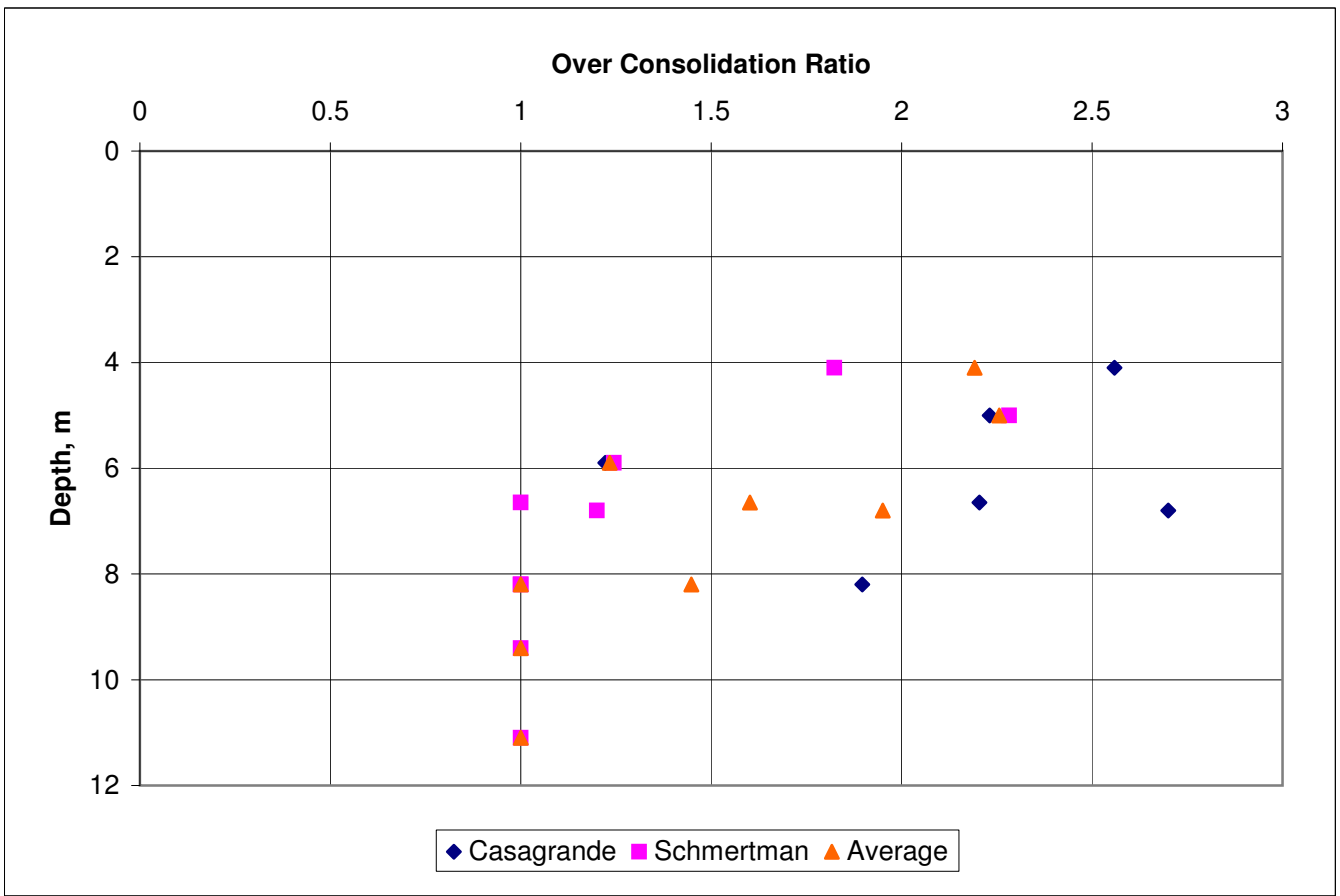
Figure

14.2

Oedometer Interpretation - Recent Deposits



Soil Mechanics



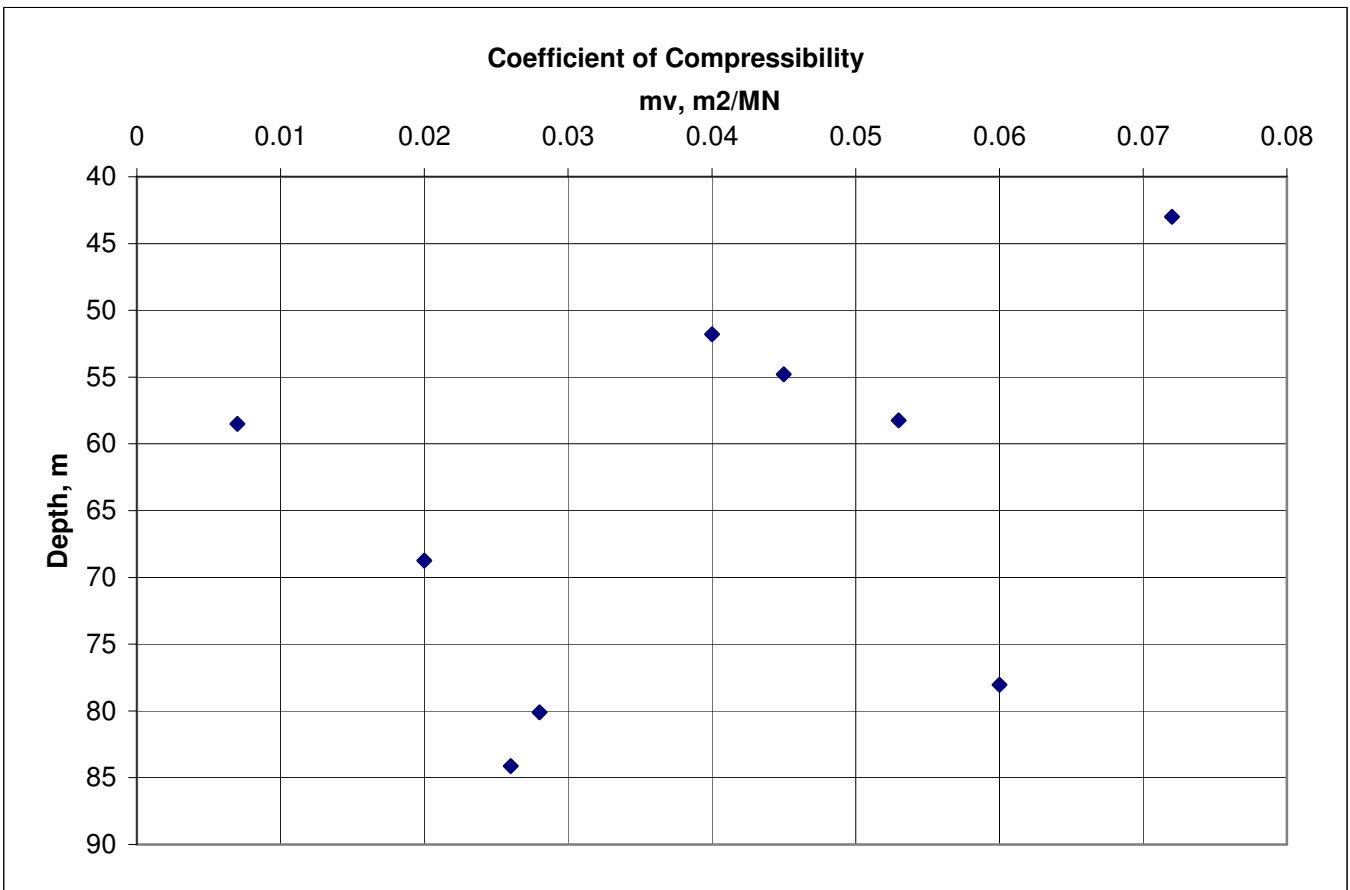
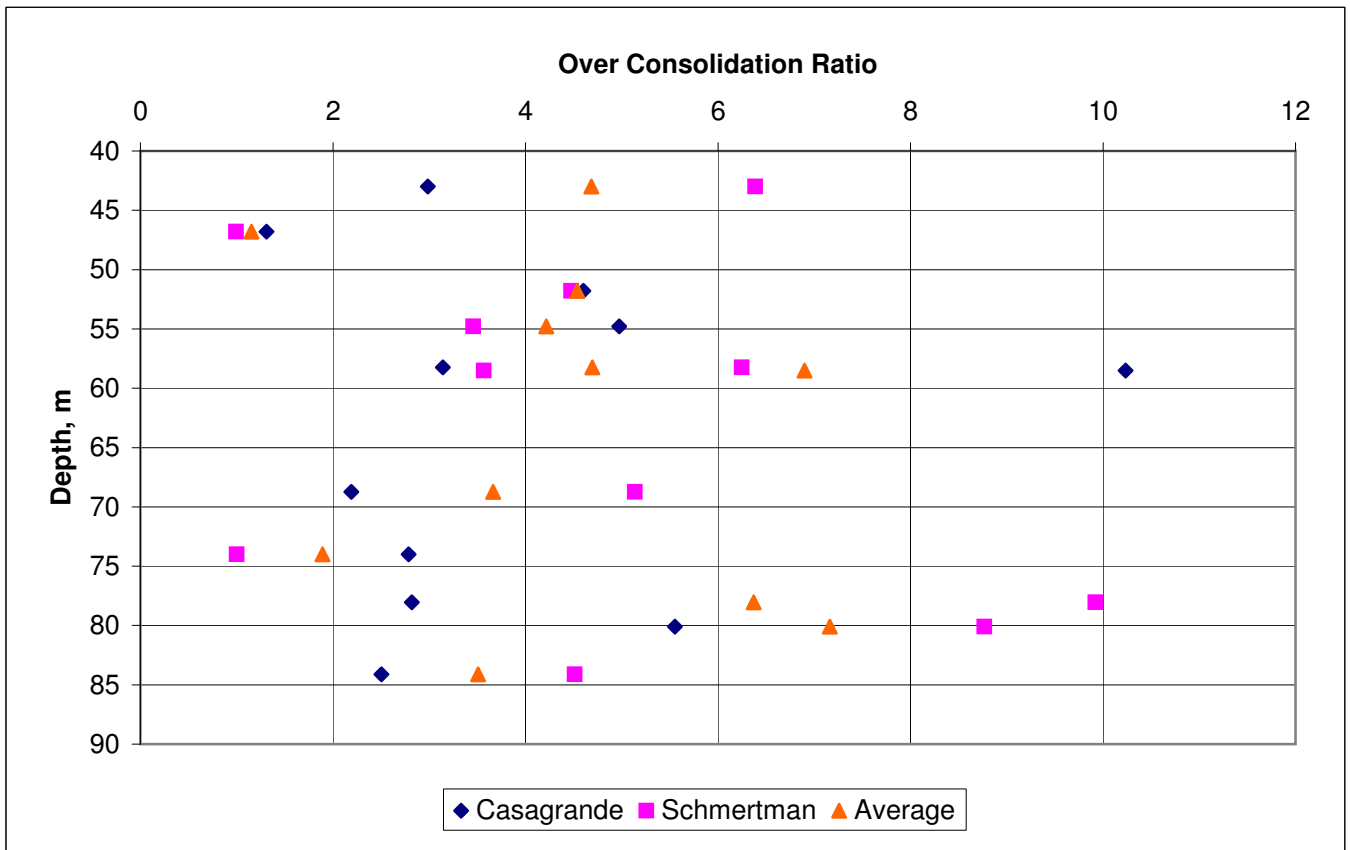
Notes:

Project: ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No.: A0012-10
 Carried out for: NNB Generation Company Limited

Figure

15

Oedometer Interpretation - London Clay and Lower London Tertiaries



Notes:

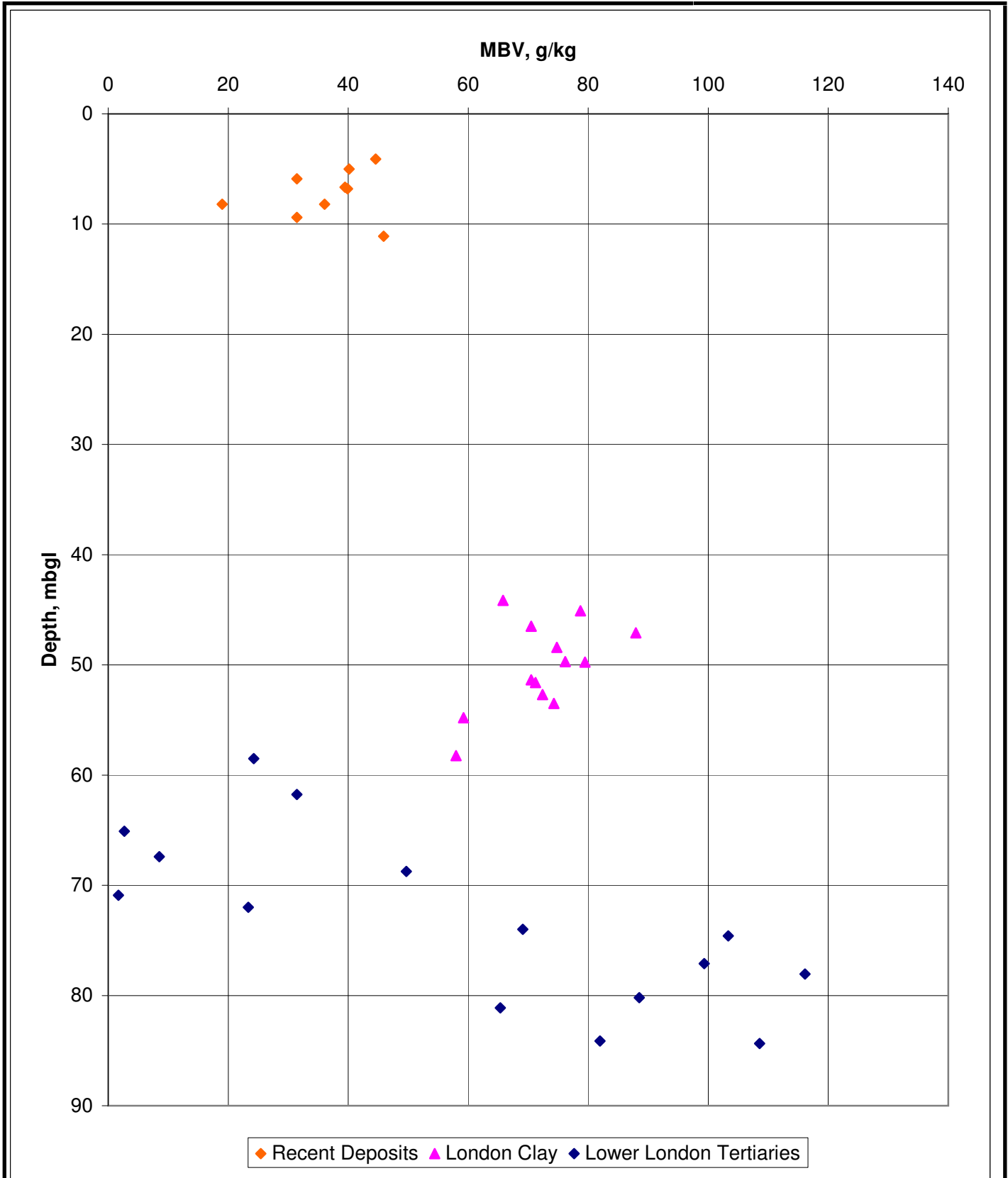
Project: ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No.: A0012-10
 Carried out for: NNB Generation Company Limited

Figure

Methylene Blue Value



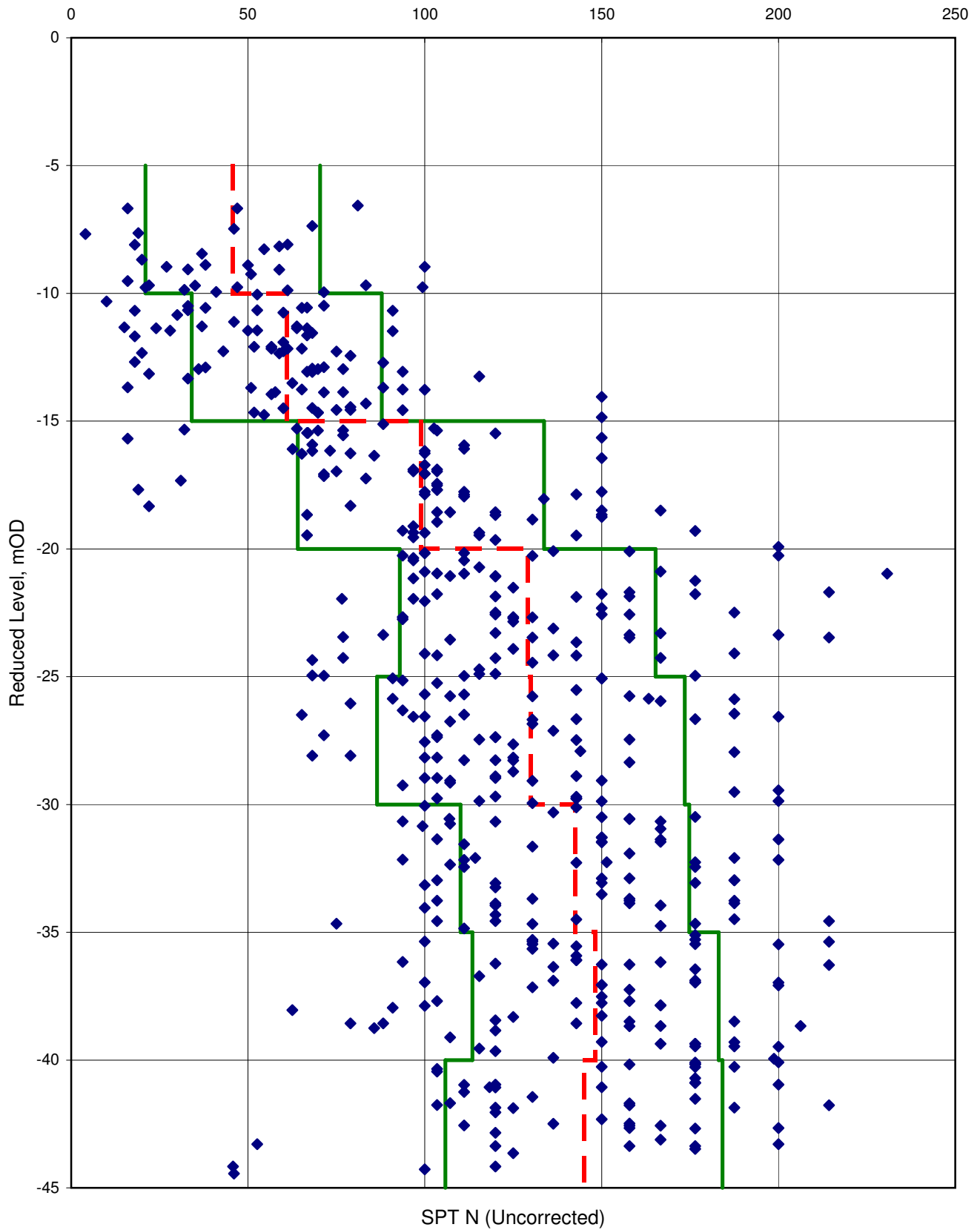
Soil Mechanics



SPT N Depth Profile - Crag Deposits



Soil Mechanics



— mean-1stdev — mean+1stdev - - mean

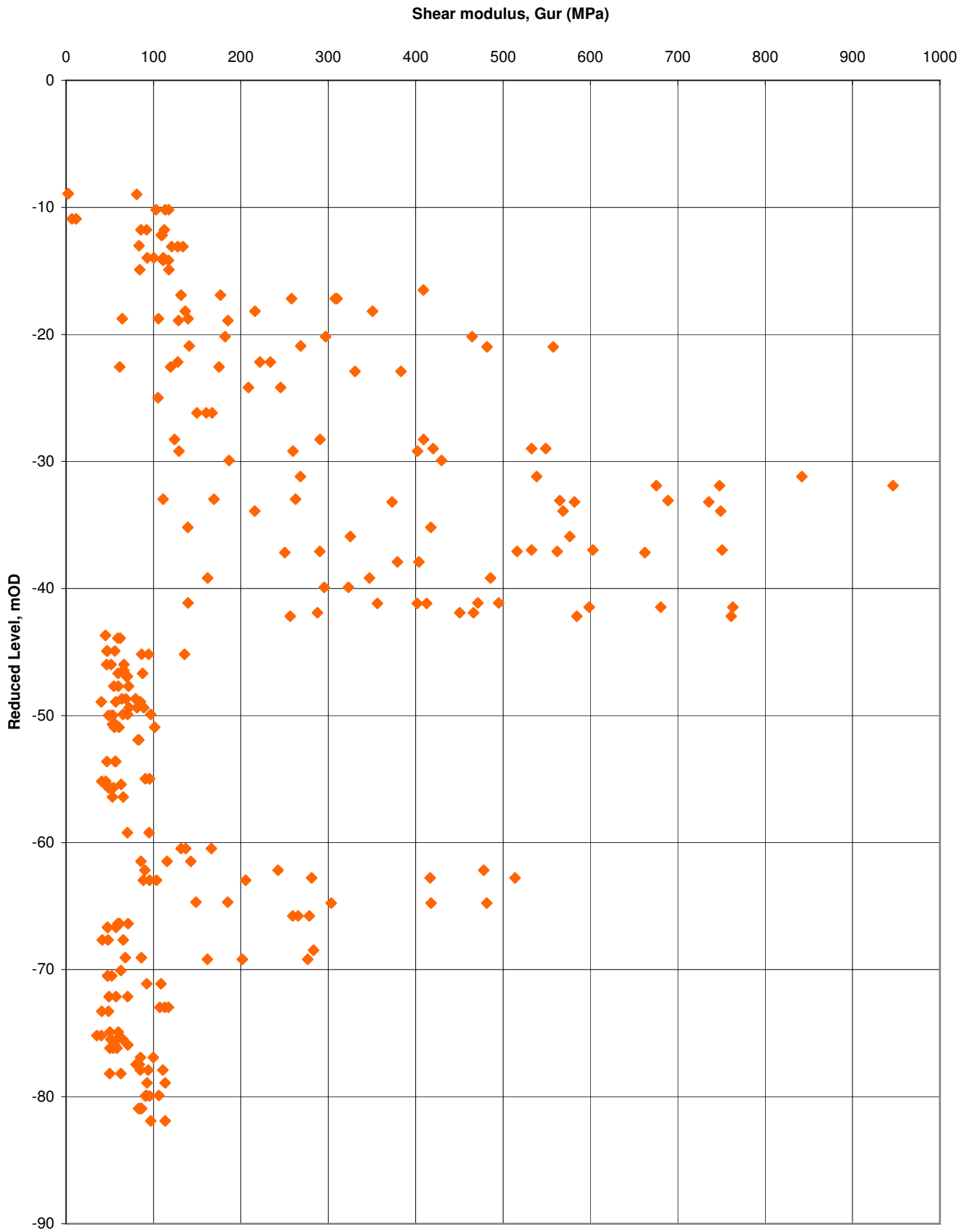
Prepared: 23/12/2010 14:35

Notes:	Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE Project No. A0012-10 Carried out for NNB Generation Company Limited	Figure 18
--------	--	---------------------

Shear Modulus (SBP) - All Strata



Soil Mechanics



Notes: Gur for all loops shown

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

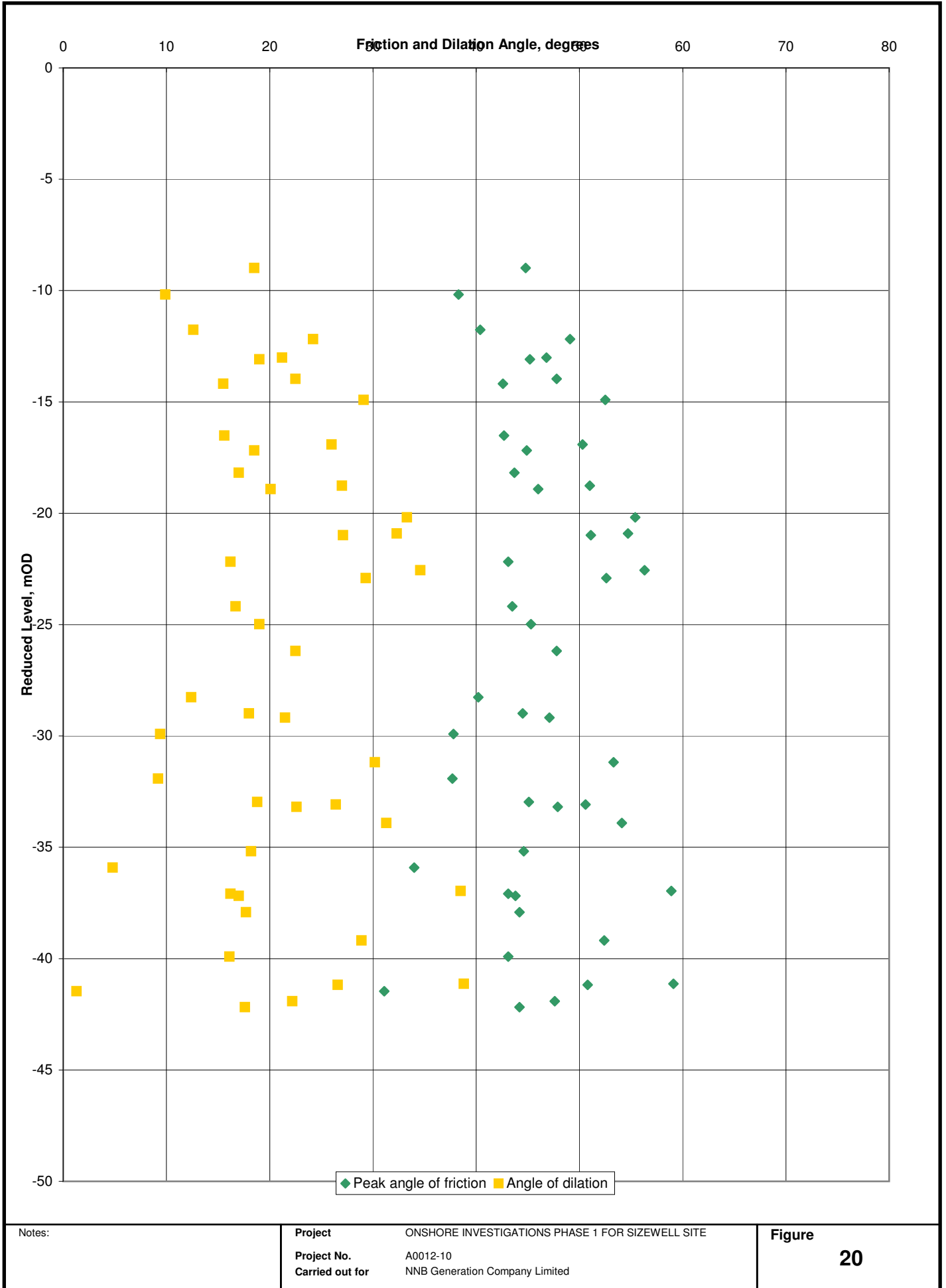
Figure

19

Drained Strength Parameters (SBP) - Crag Deposits



Soil Mechanics



Notes:

Project: ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No.: A0012-10
 Carried out for: NNB Generation Company Limited

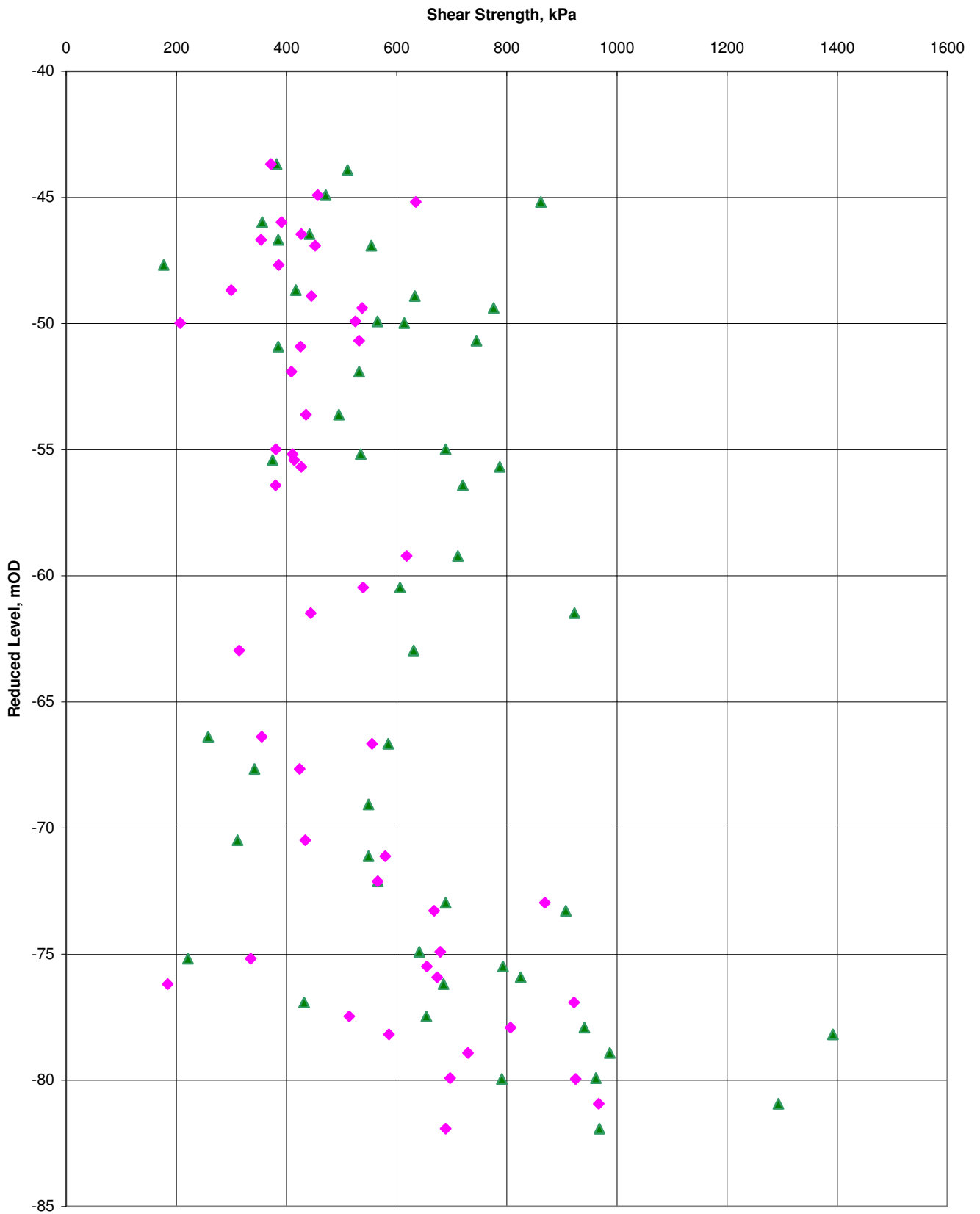
Figure

20

Undrained Shear Strength (SBP) - London Clay and Lower London Tertiaries



Soil Mechanics



▲ Shear strength (loading) ◆ Shear strength (unloading)

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No. A0012-10
 Carried out for NNB Generation Company Limited

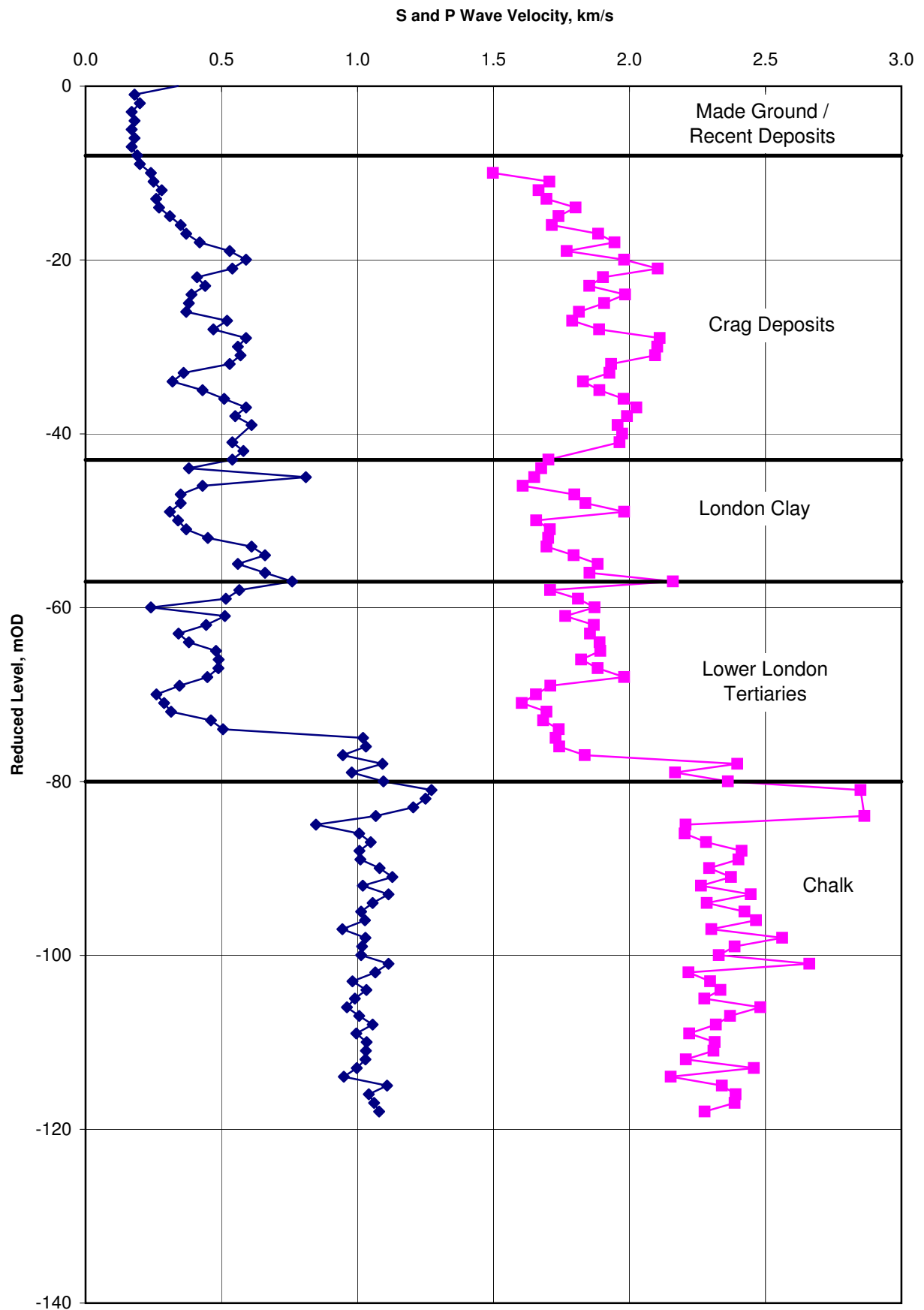
Figure

21

Crosshole Seismic Test Results - All Strata



Soil Mechanics



Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No. A0012-10
 Carried out for NNB Generation Company Limited

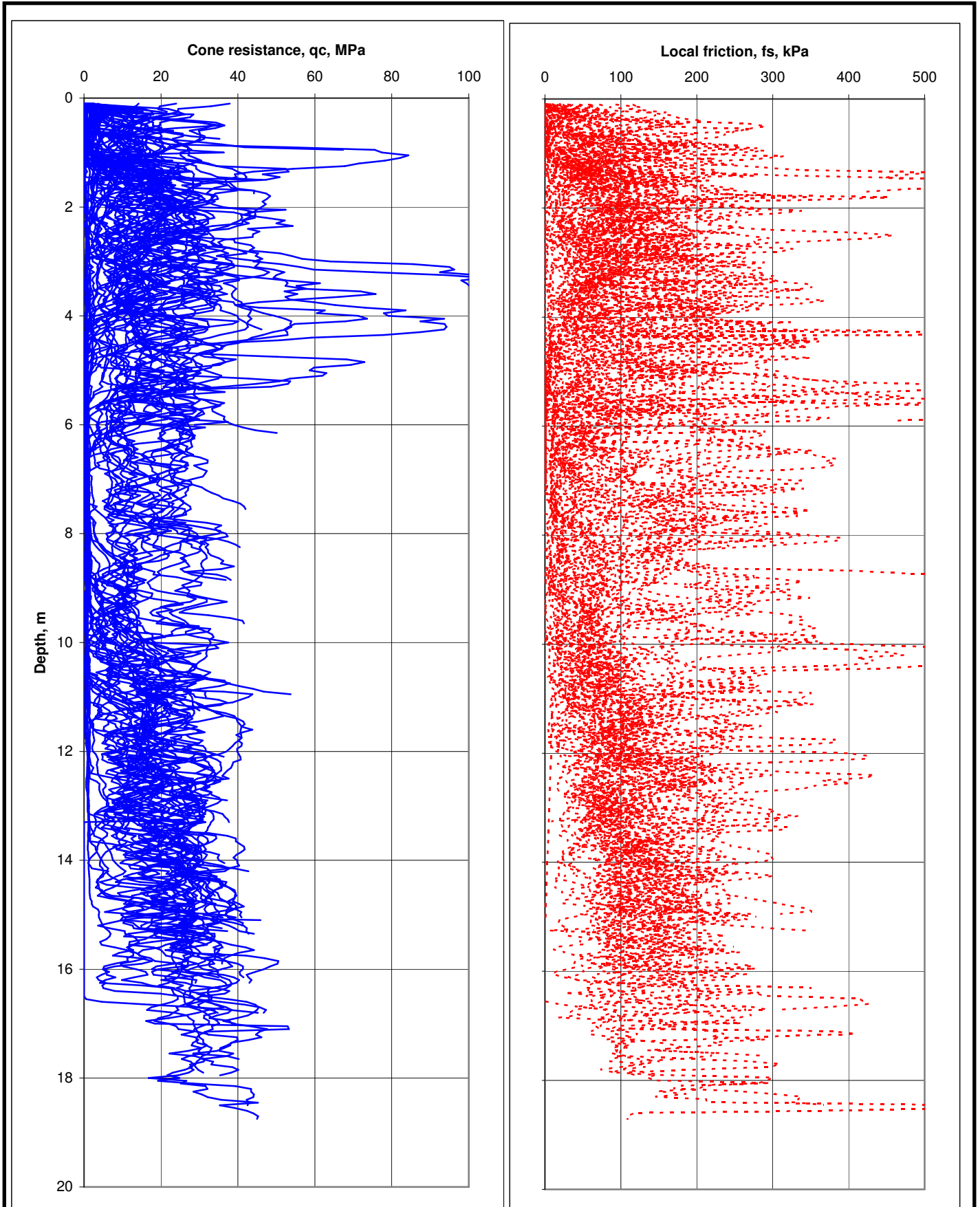
Figure

22

CPT Data Summary



Soil Mechanics



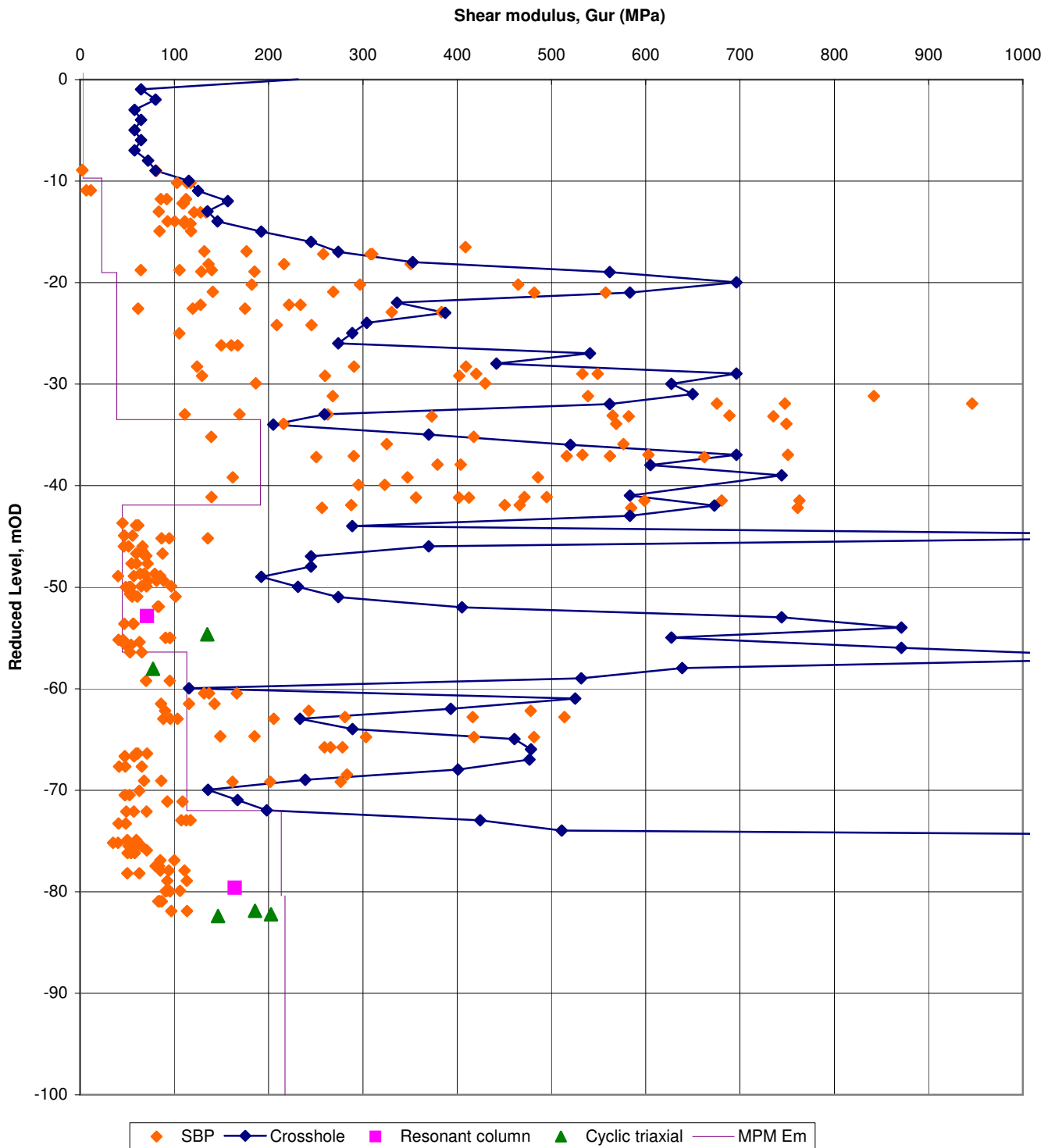
Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

Figure

23

Shear Modulus Summary



Notes:

- 1 SBP values from all unload-reload loops per test
- 2 Crosshole values from shear wave velocity profile and constant soil bulk density of 2 Mg/m³
- 3 Laboratory test values derived from measured Young's modulus $E = 2G(1+\nu)$ and assuming $\nu = 0.5$
- 4 MPM Em profile derived from statistical interpretation carried out by Fondasol on pressuremeter modulus values for all tests. Values are not shear modulus and are shown for comparative purposes only.

Notes: Gur for all loops shown

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

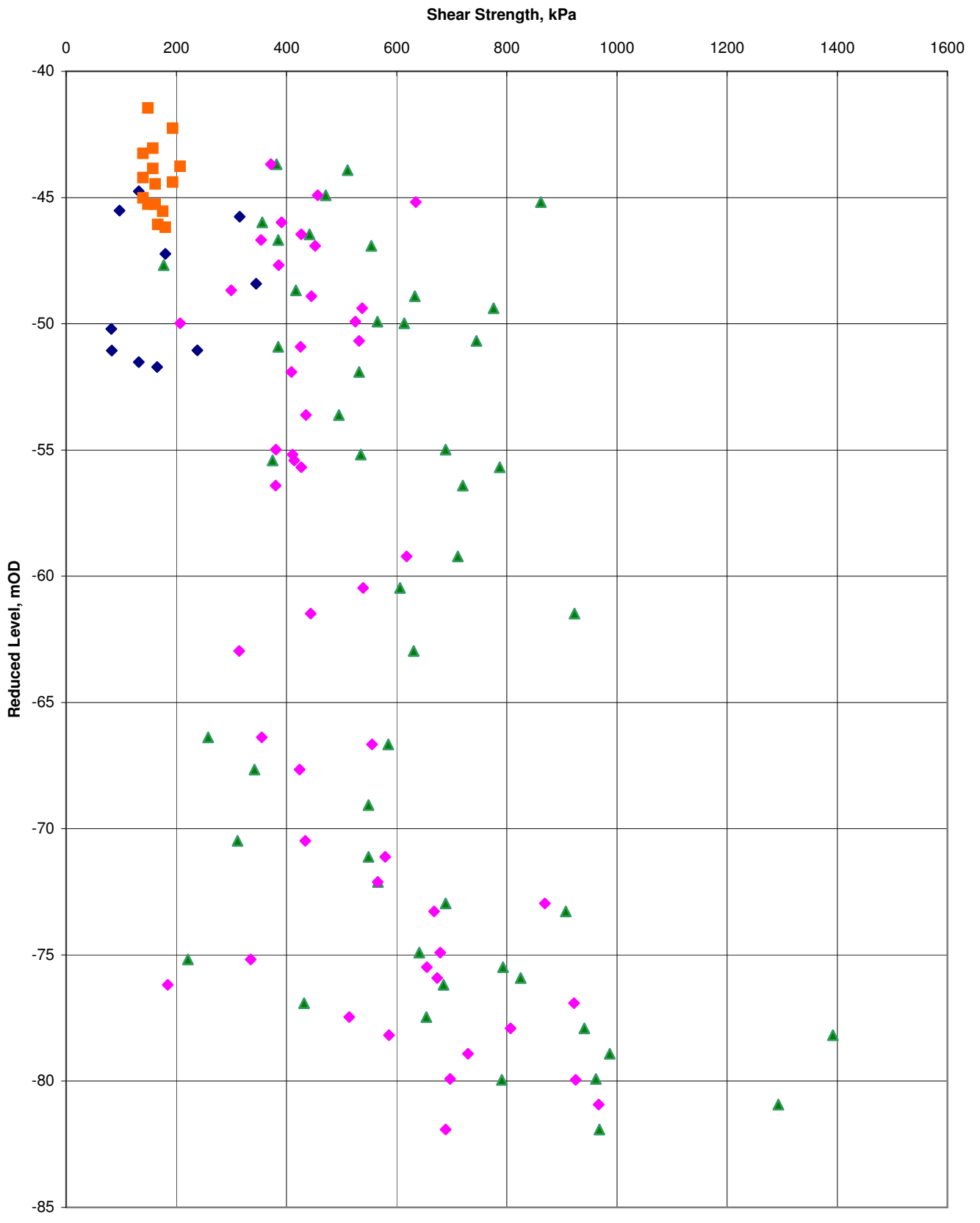
Figure

24

Undrained Shear Strength Summary - London Clay and Lower London Tertiaries



Soil Mechanics



▲ SBP (loading) ◆ SBP (unloading) ◆ UU triaxial test ■ Su derived from SPT N Value (Nx4.5)

Notes:

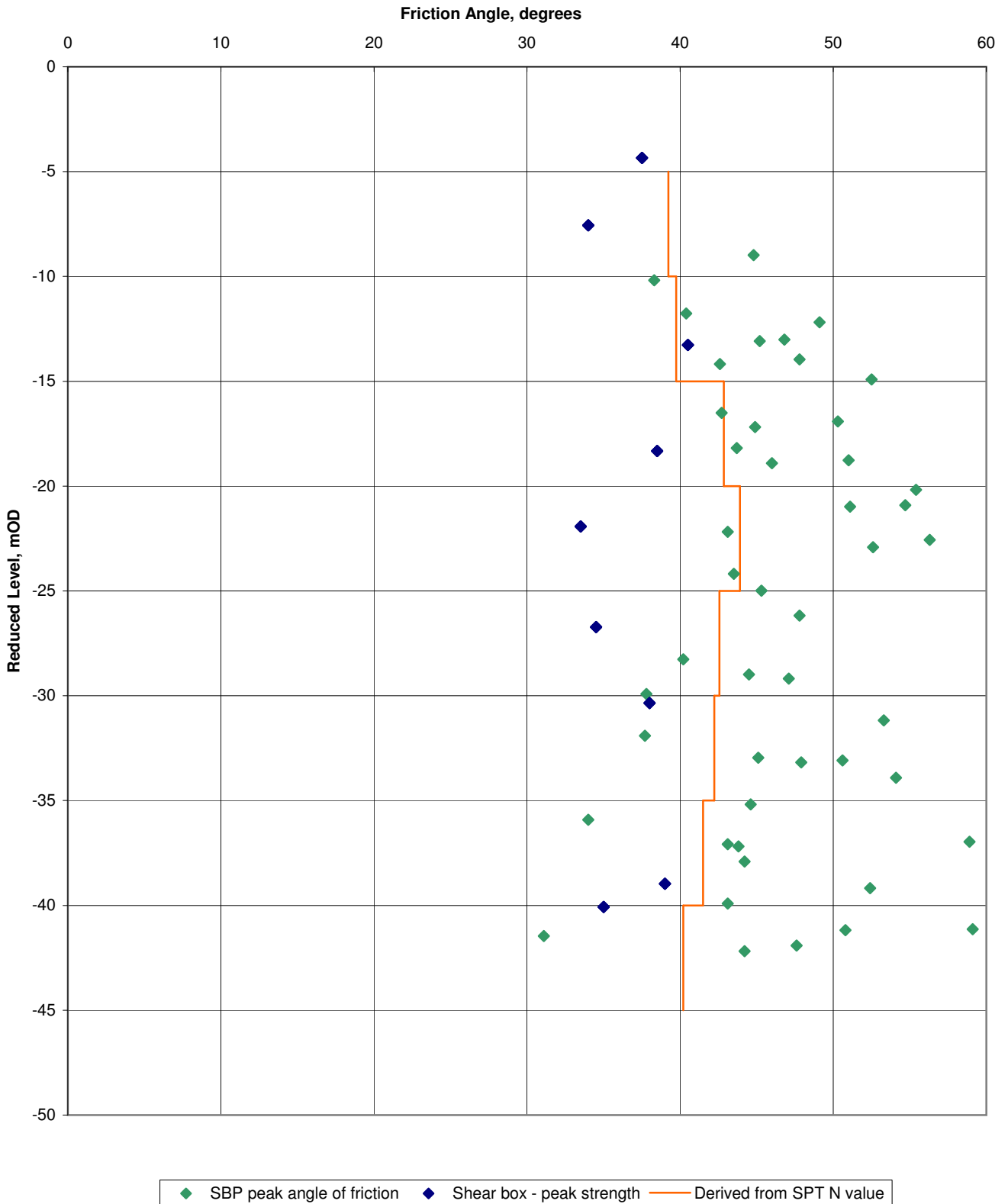
Project: ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No.: A0012-10
 Carried out for: NNB Generation Company Limited

Figure
25

Drained Shear Strength Summary - Crag Deposits



Soil Mechanics



Notes:

SPT N values corrected for overburden pressure using BS EN ISO 22476-3:2005 A.4 (overconsolidated)
SPT N value - ϕ relationship based on Peck, Hanson and Thorburn:1953 assuming OCR=3

Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

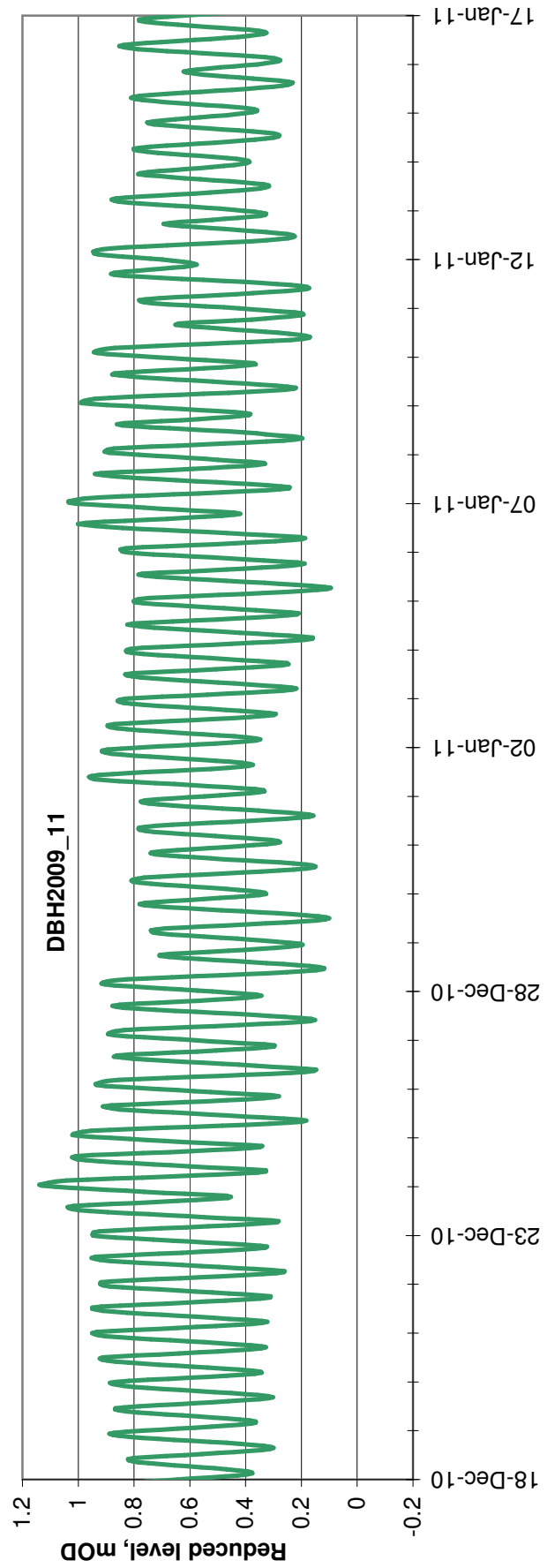
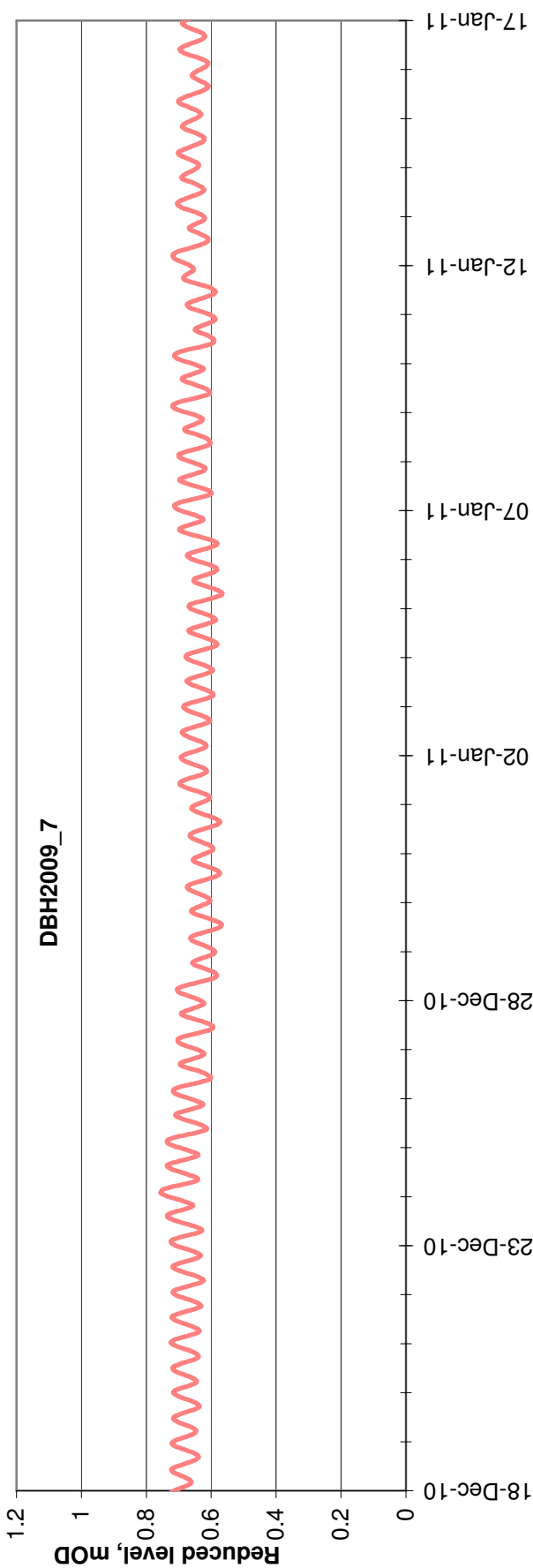
Figure

26

Groundwater Elevation Variation Examples



Soil Mechanics



Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
 Project No. A0012-10
 Carried out for NNB Generation Company Limited

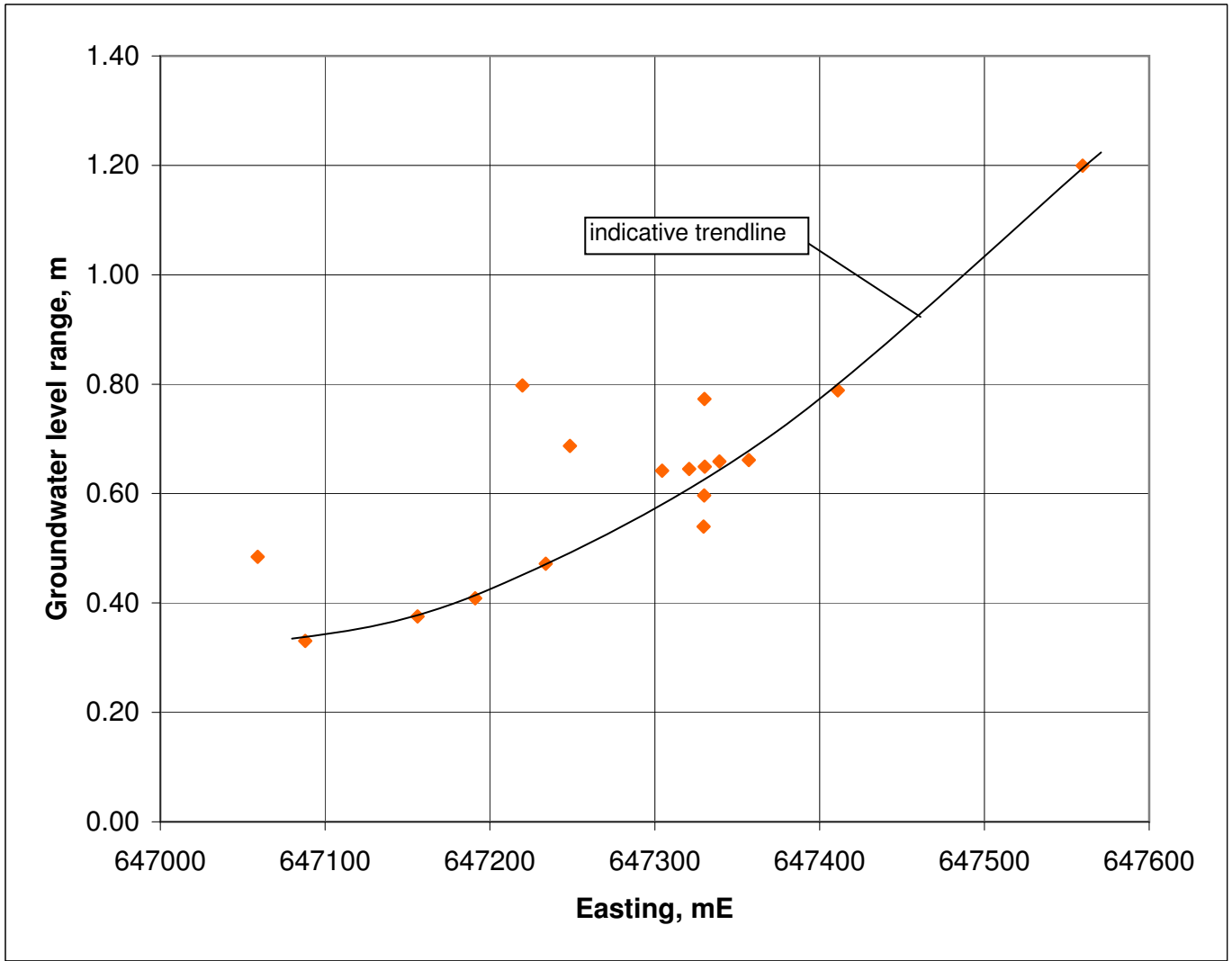
Figure

27

Groundwater Level Tidal Response



Soil Mechanics



Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

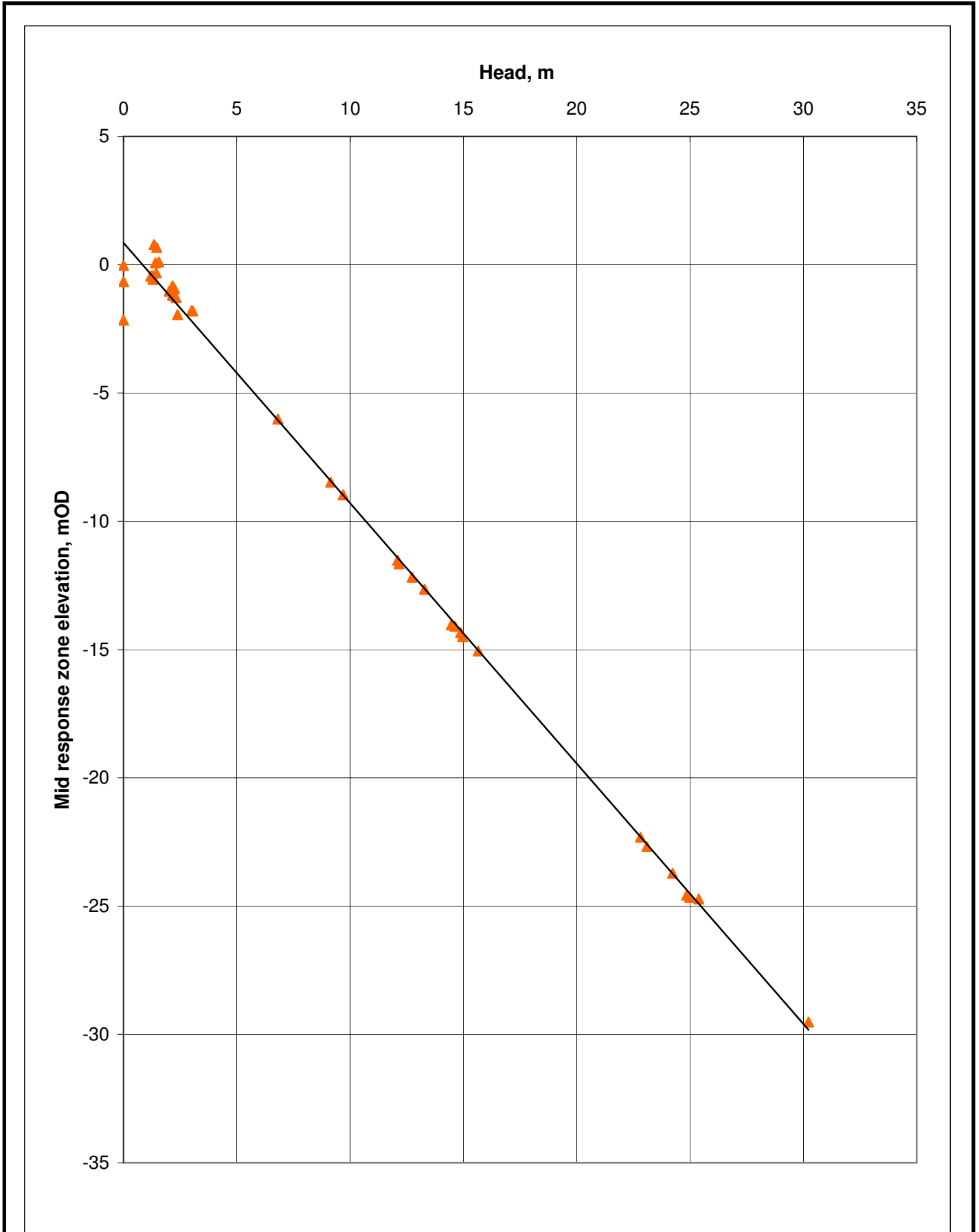
Figure

28

Piezometric Profile - Crag Deposits



Soil Mechanics



Notes:

Project ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE
Project No. A0012-10
Carried out for NNB Generation Company Limited

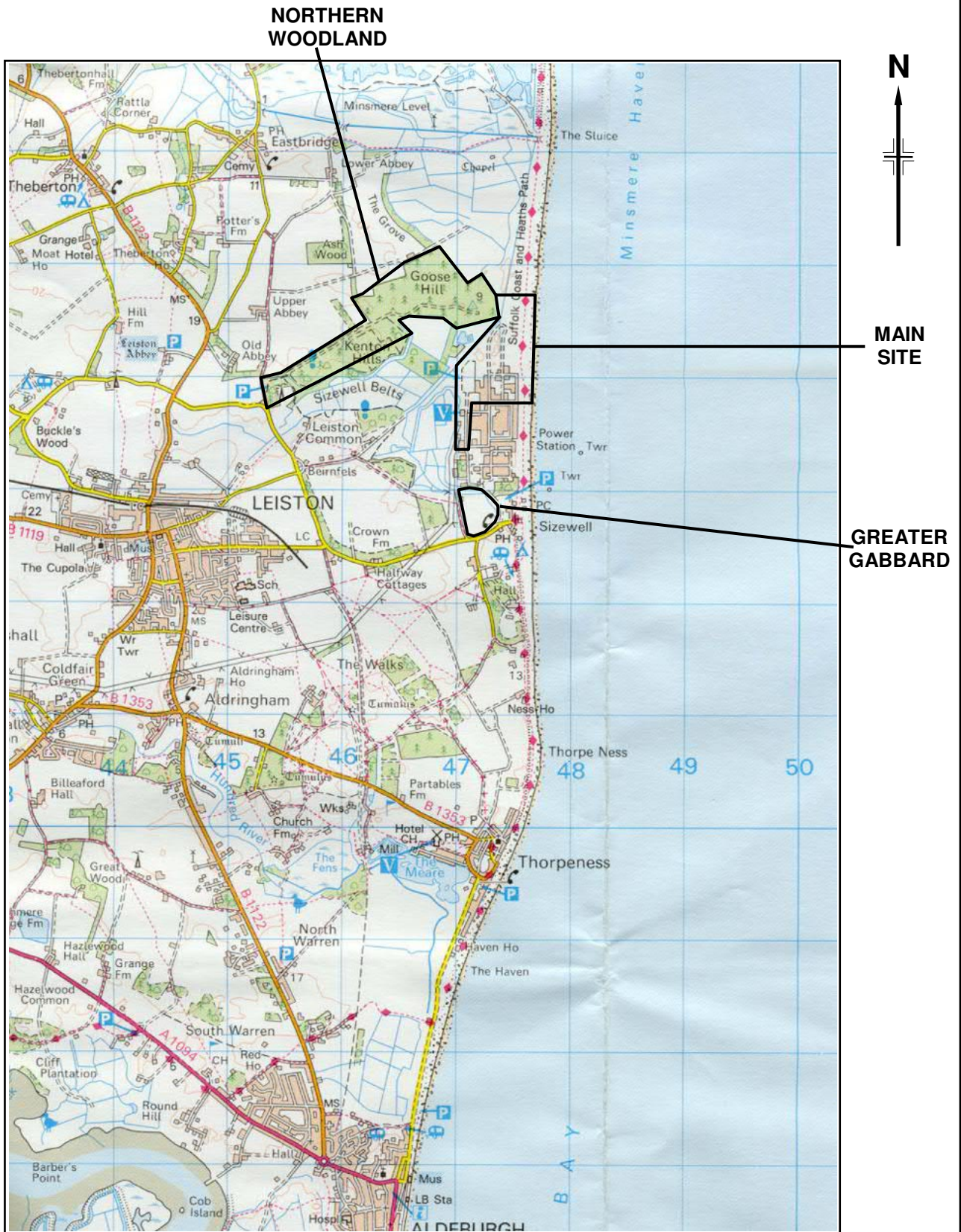
Figure

29

Site Location Plan



Soil Mechanics



Reproduced from the 2002 Ordnance Survey 1:50 000 scale Landranger map No 156 by permission of Ordnance Survey on behalf of The Controller of Her Majesty's Stationery Office, © Crown copyright, Environmental Services Group Limited. All rights reserved. Licence Number 100006060

Notes:
Scale 1:50 000

Project **ONSHORE INVESTIGATIONS PHASE 1 FOR SIZEWELL SITE**
 Project No. **A0012-10**
 Carried out for **NNB Generation Company Limited**

Figure

30

ANNEXE

Pumping Test Interpretive Report WJ Groundwater Limited Report No. 424/1638.
Dated 7 April 2011

**Onshore Investigations Phase 1
for Sizewell Site**

**PUMPING TEST
INTERPRETIVE REPORT**

Client: Soil Mechanics



WJ GROUNDWATER LIMITED

Onshore Investigations Phase 1 for Sizewell Site

PUMPING TEST INTERPRETIVE REPORT

Client: Soil Mechanics

Report No.	Revision No.	Date of Issue:	Issued to:	Prepared by:	Checked by:
424/1638	0	7 April 2011	Soil Mechanics	GH	TR

Southern office
Bournehall House
Bushey
Hertfordshire
WD23 3HP
[e info@wjgl.com](mailto:info@wjgl.com)
[w www.wjgl.com](http://www.wjgl.com)
t +44 (0)20 8950 7256
f +44 (0)20 8950 7959

Contents

1	Introduction	3
2	Methods of Analysis of Distance-Drawdown-Time Data	3
2.1	Step Test	4
2.2	Constant Rate Test (Initial Drawdown)	4
2.3	Constant Rate Test (Steady State).....	5
2.4	Constant Rate Test (Recovery)	5
3	Observations	6
3.1	Transmissivity and Hydraulic Conductivity	6
3.2	Storage Coefficient	8
3.3	Radius of Influence	8
3.4	Groundwater Levels and Drawdown	9
3.5	Electrical Conductivity and Temperature	9
4	Concluding Remarks	9
	Tables.....	11
	Figures	14

1 Introduction

The purpose of this report is to provide an interpretation of the data obtained from a program of pumping tests that have been carried out, within the underlying Crag Deposits, at the location of the proposed Sizewell C Power Station. The program of works comprised an intermittent step test, constant discharge test and recovery test. During each phase the abstraction flow and piezometric heads, in the abstraction well and a number of piezometers, were recorded against time. Full details are given in the factual report on the pumping test WJGL (2011).

The location of the site is shown in Figure 1, and a site plan indicating the location of the well and piezometers is given in Figure 2 of this report. The site is located immediately adjacent to the North Sea coast, though separated from the shore line by coastal sand dunes. Adjacent to the site are the existing Sizewell A (currently being decommissioned) and Sizewell B power stations. Generally existing ground level was approximately between +1 to +2 mOD.

Typical ground conditions are as follows:

Stratum	Top of Stratum (mAOD)
SAND	1.5
Peaty CLAY	-9.4
Crag Deposits	-10.4
London CLAY	-40.4

Plots of the drawdown-time data obtained from the step test and constant rate test are shown in Figures 3 and 4.

2 Methods of Analysis of Distance-Drawdown-Time Data

Four elements of the test have been analysed with the software package AquiferWin³² Version 3.28 using the following analyses. The different methods of analyses are detailed in Kruseman and de Ridder (2000).

Test phase	Type of Analysis
Step test	Birsoy and Summers
Initial drawdown, unsteady state (constant rate test)	Theis
Steady state (constant rate test)	Theim
Recovery phase, unsteady state (constant rate test)	Theis

It has been assumed that the Clay above the Crag Deposits acts as a confining layer, this is confirmed by the pumping test results that show no discernable drawdown in the shallow aquifer above the Clay layer during the pumping phase.

2.1 Step Test

The step test yield/drawdown data has been plotted manually in Figure 5, and has also been analysed using Birsoy and Summers (1980), this assumes the following;

- The aquifer is confined.
- The aquifer has an infinite areal extent.
- The aquifer is homogeneous, isotropic and of uniform thickness over the area influenced by the test.
- Prior to pumping the piezometric surface is horizontal over the area that will be influenced by the test.
- The aquifer is pumped step wise or intermittently at a variable discharge rate or is intermittently pumped at a constant discharge rate.
- The well penetrates the entire thickness of the aquifer and therefore receives flow by horizontal flow.
- The flow to the well is in an unsteady state.

The results from the analysis for each of the four steps are presented in Figures 6 to 9.

2.2 Constant Rate Test (Initial Drawdown)

The initial stages of drawdown when the flow to the well is in an unsteady state have been analysed using Theis' method. This assumes the following:

- The aquifer is confined.
- The aquifer has an infinite areal extent.
- The aquifer is homogeneous, isotropic and of uniform thickness over the area influenced by the test.
- Prior to pumping the piezometric surface is horizontal over the area that will be influenced by the test.
- The aquifer is pumped at a constant discharge rate.
- The well penetrates the entire thickness of the aquifer and thus receives water by horizontal flow.
- The water removed from storage is discharged instantaneously with decline of head.
- The diameter of the well is small, i.e. the storage in the well can be neglected.
- The flow to the well is in an unsteady state.

The results from the analysis for all of the piezometers with response zones in the Crag Deposits are presented in Figures 10 to 25.

2.3 Constant Rate Test (Steady State)

The latter stages of drawdown when the flow to the well is in a steady state have been analysed using Theim's method. This assumes the following:

- Well discharge is at a constant rate.
- Well is of infinitesimally small diameter.
- Well fully penetrates the aquifer.
- Aquifer is fully confined.
- Aquifer has infinite areal extent.
- Aquifer is homogeneous, isotropic and of uniform thickness.
- Groundwater flow is horizontal and at steady state.
- Discharge from the well is derived exclusively from storage in the aquifer.

The results from the analysis are presented in Figure 26.

2.4 Constant Rate Test (Recovery)

The recovery phase of the test has been analysed using Theis' recovery method. This assumes the following:

- The well discharge is at a constant rate.
- The well is of infinitesimally small diameter.
- The well fully penetrates the aquifer.
- The aquifer is fully confined.
- The aquifer has an infinite areal extent.
- The aquifer is homogeneous, isotropic and of uniform thickness over the area influenced by the test.
- Groundwater flow is horizontal and unsteady.
- Discharge from the well is derived exclusively from storage in the aquifer.

The results from the analysis are presented in Figures 27 to 42.

3 Observations

3.1 *Transmissivity and Hydraulic Conductivity*

The transmissivity values obtained from the various analyses are presented in Tables 1 and 2. A range of transmissivities have been calculated based on the initial drawdown phase, the steady state phase and the recovery phase, with values varying from 692 m²/d to 5606 m²/d. It should be noted that the tidal affects considerably influence the values obtained for the Theis unsteady state analyses (initial drawdown and recovery phases), particularly those at distance from the well where the drawdown created by the pumping is of a similar magnitude to the tidal range. More reliance should be put on the results from the piezometers within 30 m of the pumped well where the measured drawdowns are in excess of 1.5 m, and the tidal affects are a much smaller portion of the measured drawdown. Even so, the tidal movement are still likely influence the values obtained to some extent.

Theim's steady state analysis method uses the water level data from the high tide peak just prior to commencing pumping, and the pumped water level data from the high tide peak just prior to switching off the pump. Although some variation in the tidal level between these two points is possible this analysis is likely to be the least affected by tidal variation. More confidence should therefore be placed on this value, rather than the Theis unsteady state analyses which are certainly influenced by the tidal movements.

A good correlation can be seen between the values obtained from the Theim steady state analysis and those obtained from analysing the well during the step test (Birsoy and Summers). The tidal influence on the step test data is minimal because the drawdown in the well is large compared to the tidal range, and each step is only 2 hours duration, during which time tidal movements are limited to a maximum of 10 - 15 cm.

The most valid transmissivity values, from the near piezometer, the steady state analysis and from the step test, are presented in the following table. These suggest that the transmissivity is between 687 and 1168 m²/d. Averaging these gives a transmissivity value of 914 m²/d.

Well/ Piezometer	Distance from DBH2009_20 (m)	Theis, 1935 T (m ² /day)	Theis, 1946 (Recovery) T (m ² /day)	Thiem, T (m ² /day)	Birsoy & Summers T (m ² /day)
DBH2009_20 (Step 1)	0	-	-	-	687
DBH2009_20 (Step 2)	0	-	-	-	780
DBH2009_20 (Step 3)	0	-	-	-	766
DBH2009_20 (Step 4)	0	-	-	-	784
DBH2009_3	5.24	941	977	692	
DBH2009_4	9.04	838	906		
DBH2009_8	9.23	902	939		
MPM2009_7	23.50	992	1168		
DBH2009_12	25.02	1013	1118		
DBH2009_5	25.48	885	939		
DBH2009_9	27.04	979	1058		

Estimates of hydraulic conductivity have been obtained by dividing the transmissivities by the aquifer depth, which has been assumed to be 32.1 m. This is an average thickness of the Crag Deposits from four boreholes that completely penetrate the aquifer (MPM2009_4A, MPM2009_7A, DBH2009_20 and CPT2009_41). The hydraulic conductivity values are presented in Tables 3 and 4. The most valid values are presented below, it can be seen that these are in the range from 2.55×10^{-4} m/s to 4.33×10^{-4} m/s.

Well/ Piezometer	Distance from DBH2009_20 (m)	Theis, 1935 k (m/s)	Theis, 1946 (Recovery) k (m/s)	Thiem k (m/s)	Birsoy & Summers k (m/s)
DBH2009_20 (Step 1)	0	-	-	-	2.55E-04
DBH2009_20 (Step 2)	0	-	-	-	2.89E-04
DBH2009_20 (Step 3)	0	-	-	-	2.84E-04
DBH2009_20 (Step 4)	0	-	-	-	2.91E-04
DBH2009_3	5.24	3.49E-04	3.62E-04	2.57E- 04	
DBH2009_4	9.04	3.11E-04	3.36E-04		
DBH2009_8	9.23	3.35E-04	3.48E-04		
MPM2009_7	23.50	3.68E-04	4.33E-04		
DBH2009_12	25.02	3.76E-04	4.15E-04		
DBH2009_5	25.48	3.28E-04	3.48E-04		
DBH2009_9	27.04	3.63E-04	3.92E-04		

Averaging the hydraulic conductivity values in the table above gives a value of 3.4×10^{-4} m/s.

3.2 Storage Coefficient

The storage coefficient values obtained from the Theis unsteady state analysis of the initial drawdown are given in Table 2, these vary from 4.4×10^{-5} to 1.4×10^{-3} . For reasons given in Section 3.1, the most reliable values are likely to be those obtained from the near piezometers, within 30 m of the well. Averaging the values from these piezometers gives a Storage Coefficient of 4.2×10^{-4} .

3.3 Radius of Influence

The radius of influence can be estimated from the distance drawdown plot, Figure 43, of the water levels recorded during the latter stages of the constant rate discharge test. Using all data points a radius of influence of approximately 450 m is calculated. However, to the east, on the seaward side, the sea is likely to act as a fixed head boundary. Using the data points from the four piezometers (DBH2009_8, DBH2009_9, DBH2009_10 and DBH2009_11), to the seaward side of the well gives a radius of influence of approximately 380 m (Figure 43). This corresponds closely to the estimated distance from the well to the mean tide level of approximately 370 m.

3.4 Groundwater Levels and Drawdown

The groundwater levels, at high tide, prior to pumping, during pumping, and after pumping are shown in Figures 44 to 46 in the form of contour plots. A larger scale contour plan around the well is given in Figure 47, and a drawdown contour plot is provided in Figure 48 for the pumped water levels only. When no pumping is occurring the contour plots for high tide levels show that the groundwater gradient is towards the land. In Figure 49 the groundwater level contours have been plotted for a low tide, this shows that during the low tide the groundwater gradient is towards the sea.

3.5 Electrical Conductivity and Temperature

The temperature and electrical conductivity of the groundwater within the boreholes were monitored throughout the test period, these are presented in Figures 50 and 51 respectively. Recorded temperatures in the Crag Deposits are very consistent throughout the test period with no discernable influence detected during the pumping. Temperatures within the shallow aquifer (GW6S and GW24S) show a falling trend over the testing period, probably due to the seasonal variation in shallow groundwater temperatures; again no pumping influence is detectable.

From Figure 51 it can be seen that the electrical conductivity is influenced by pumping. It is also apparent that there are step changes in the readings when the dataloggers are removed, downloaded and replaced, this is likely to be due to disturbance of the water column. This implies that the electrical conductivity within the boreholes varies with depth. In order to investigate this relationship the background conductivity readings have been plotted for all piezometers against the mid point of the response zone in Figure 52. Where there are tidal variations of the conductivity value, an approximate average has been used. This approximate evaluation of the data would suggest that the electrical conductivity values vary from approximately 1 mS/cm at an elevation of -10 mOD, up to a conductivity of approximately 35 mS/cm at an elevation of -26 mOD.

4 Concluding Remarks

The pumping tests have been analysed using a number of different methods, these give a range of values for transmissivity, T , hydraulic conductivity, k , and storage coefficient, S . Due to the tidal affects the most valid data is likely to be from the piezometers located closest to the abstraction well and from the well itself. These data give the following range of results.

Parameter	Minimum	Maximum	Average
Transmissivity, T	687 m ² /d	1168 m ² /d	914 m ² /d
Hydraulic conductivity, k	2.55 x 10 ⁻⁴ m/s	4.33 x 10 ⁻⁴ m/s	3.4 x 10 ⁻⁴ m/s
Storage coefficient, S	4.4 x 10 ⁻⁵	1.4 x 10 ⁻³	4.2 x 10 ⁻⁴

It should also be noted that the sea will act as a fixed head boundary.

Dr Gary Holmes
For and on behalf of
WJ GROUNDWATER LIMITED

Dr Toby Roberts
For and on behalf of
WJ GROUNDWATER LIMITED

References

WJGL (2011) *Onshore Investigations Phase 1 for Sizewell Site. Pumping Test Factual Report No. 423/1638*. WJ Groundwater Limited, March 2011.

Kruseman, G. P. & de Ridder, N. A. (2000) *Analysis and Evaluation of Pumping Test Data*. ILRI publication 47.

Tables

Well	Birsoy and Summers 1980			
	Transmissivity, T (m ² /day)			
	Step 1	Step 2	Step 3	Step 4
DBH2009_20	687	780	766	784

Table 1: Transmissivity Values from Step Test Analysis

Well/ Piezometer	Distance from DBH2009_20 (m)	Theis, 1935 (Confined)		Theis, 1946 (Recovery)	Thiem
		S	T (m ² /day)	T (m ² /day)	T (m ² /day)
DBH2009_20	-				692
DBH2009_3	5.24	4.40E-05	941	977	
DBH2009_4	9.04	1.40E-03	838	906	
DBH2009_8	9.23	9.60E-05	902	939	
MPM2009_7	23.50	4.60E-04	992	1168	
DBH2009_12	25.02	1.70E-04	1013	1118	
DBH2009_5	25.48	6.20E-04	885	939	
DBH2009_9	27.04	1.60E-04	979	1058	
DBH2009_10	81.15	8.50E-04	1142	1586	
DBH2009_6	81.37	5.80E-04	1083	1402	
MPM2009_4	122.73	8.70E-04	1556	1979	
DBH2009_13	125.39	6.30E-04	1275	1727	
DBH2009_11	229.61	8.70E-04	1690	2546	
GW24D	235.32	9.80E-04	2165	4238	
DBH2009_7	242.10	8.70E-04	2202	3788	
DBH2009_14	248.33	1.20E-03	4407	5606	
GW6 D	305.43	1.50E-03	2554	5494	

Table 2: Results of Storage Coefficient and Transmissivity from Constant Discharge Test Analysis

Well	Birsoy and Summers 1980			
	Hydraulic Conductivity, k (m/s)			
	Step 1	Step 2	Step 3	Step 4
DBH2009_20	2.55E-04	2.89E-04	2.84E-04	2.91E-04

Table 3: Hydraulic Conductivity Values from Step Test Analysis

Well/ Piezometer	Distance from DBH2009_20 (m)	Theis, 1935 (Confined)	Theis, 1946 (Recovery)	Thiem
		k (m/s)	k (m/s)	k (m/s)
DBH2009_20	-			2.57E-04
DBH2009_3	5.24	3.49E-04	3.62E-04	
DBH2009_4	9.04	3.11E-04	3.36E-04	
DBH2009_8	9.23	3.35E-04	3.48E-04	
MPM2009_7	23.50	3.68E-04	4.33E-04	
DBH2009_12	25.02	3.76E-04	4.15E-04	
DBH2009_5	25.48	3.28E-04	3.48E-04	
DBH2009_9	27.04	3.63E-04	3.92E-04	
DBH2009_10	81.15	4.24E-04	5.88E-04	
DBH2009_6	81.37	4.02E-04	5.20E-04	
MPM2009_4	122.73	5.77E-04	7.34E-04	
DBH2009_13	125.39	4.73E-04	6.41E-04	
DBH2009_11	229.61	6.27E-04	9.44E-04	
GW24D	235.32	8.03E-04	1.57E-03	
DBH2009_7	242.10	8.17E-04	1.41E-03	
DBH2009_14	248.33	1.63E-03	2.08E-03	
GW6D	305.43	9.47E-04	2.04E-03	

Table 4: Results of Hydraulic Conductivity from Constant Discharge Test Analysis

Figures

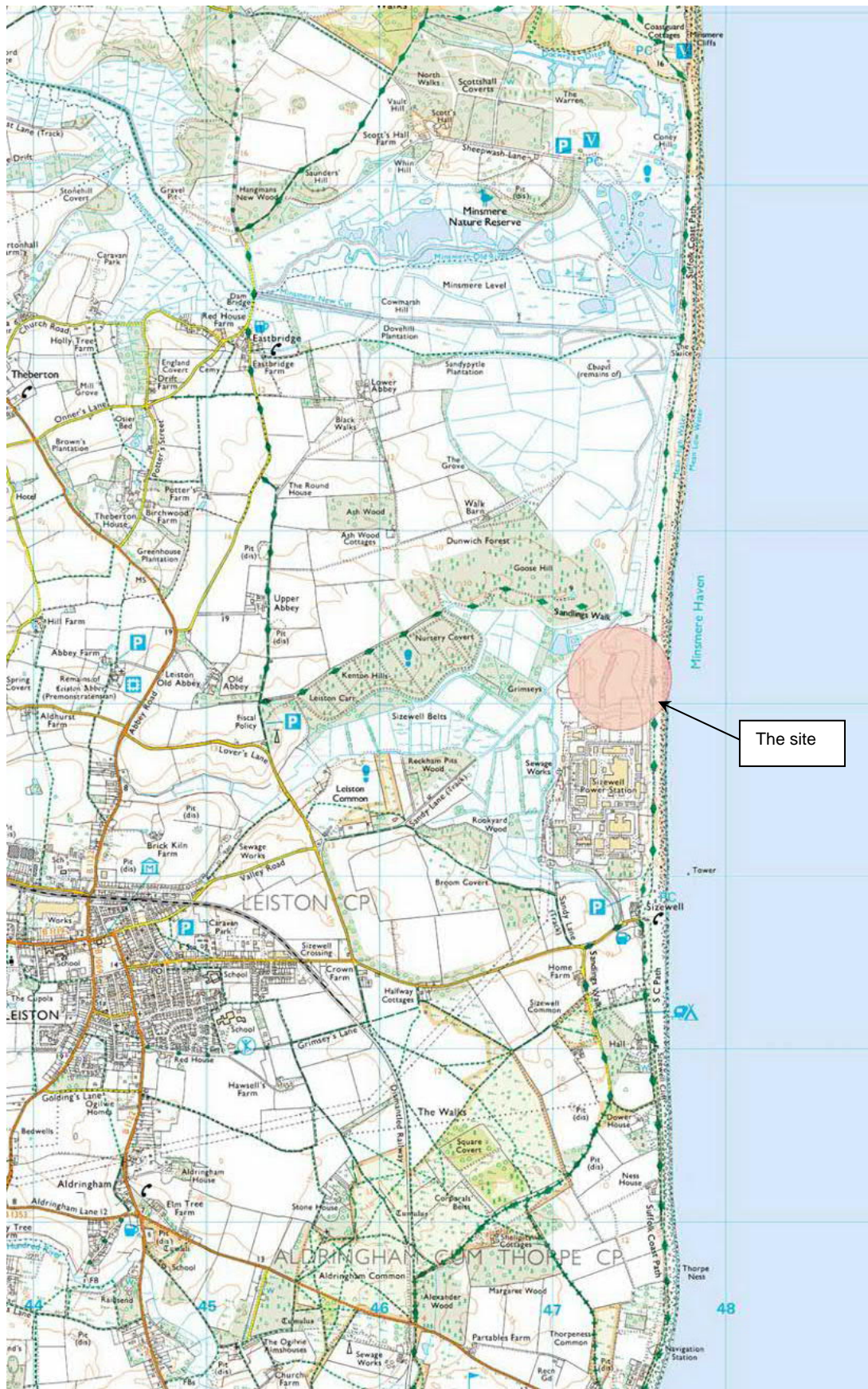
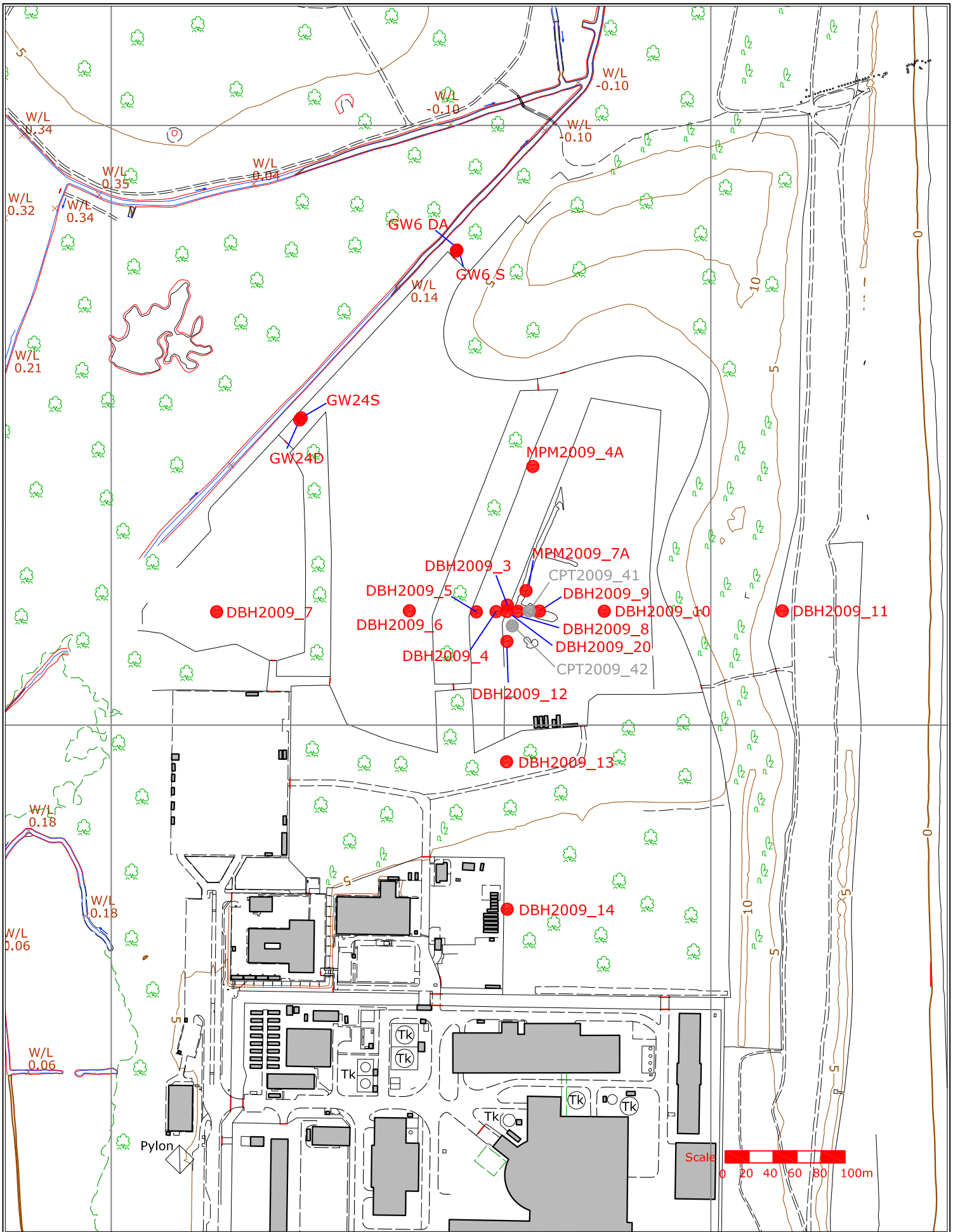


Figure 1: Pumping Test :Location



Notes:

Project: Sizewell Pumping Test

Title: As Built Well Layout

Drawing No: Figure 2

Rev: 1

By: QR

Scale: 1:4000@A4

Date: 16/03/11

Chk: GH



WJ GROUNDWATER LIMITED

Figure 3: Step Test

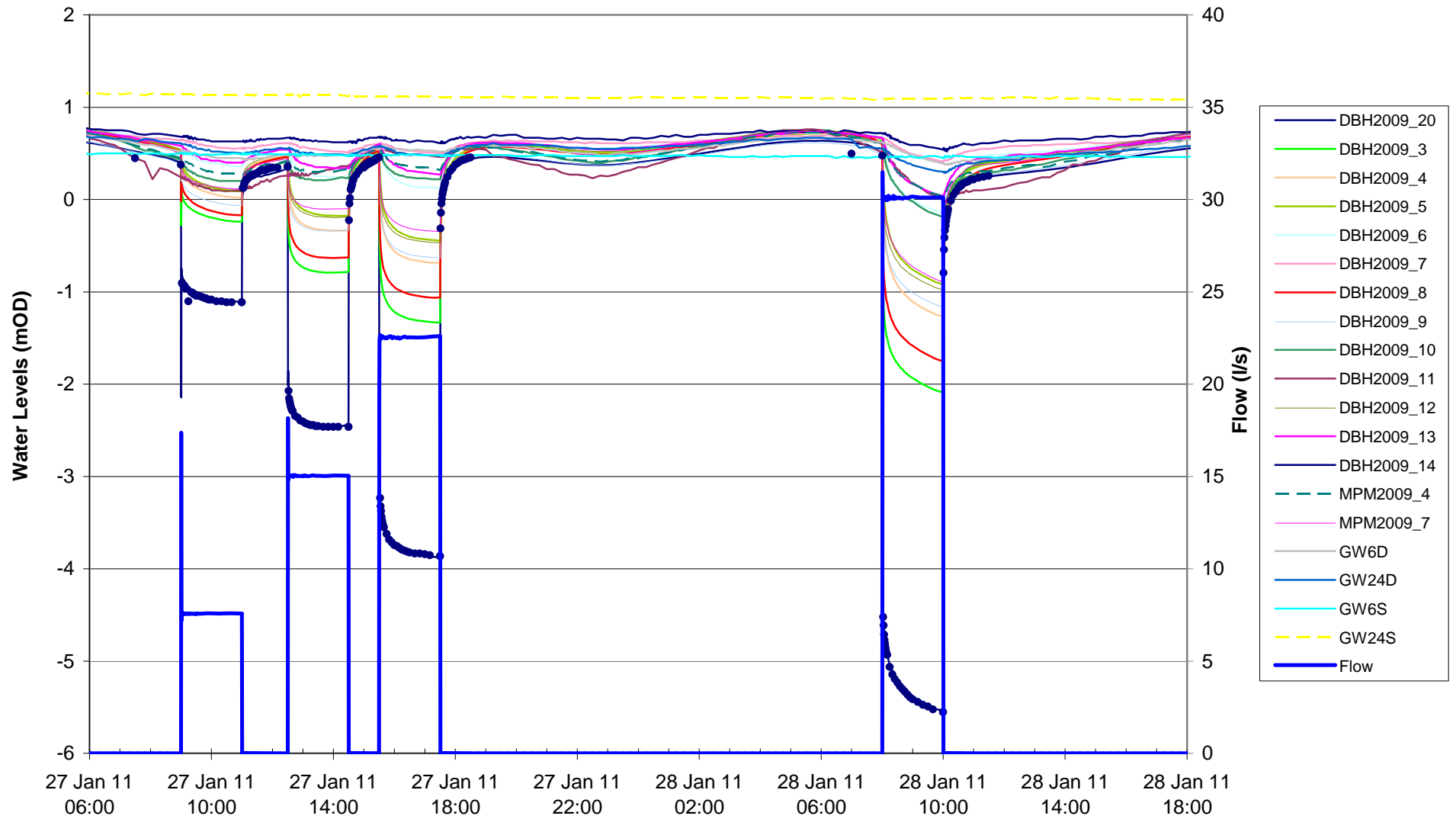


Figure 4: Constant Rate Test

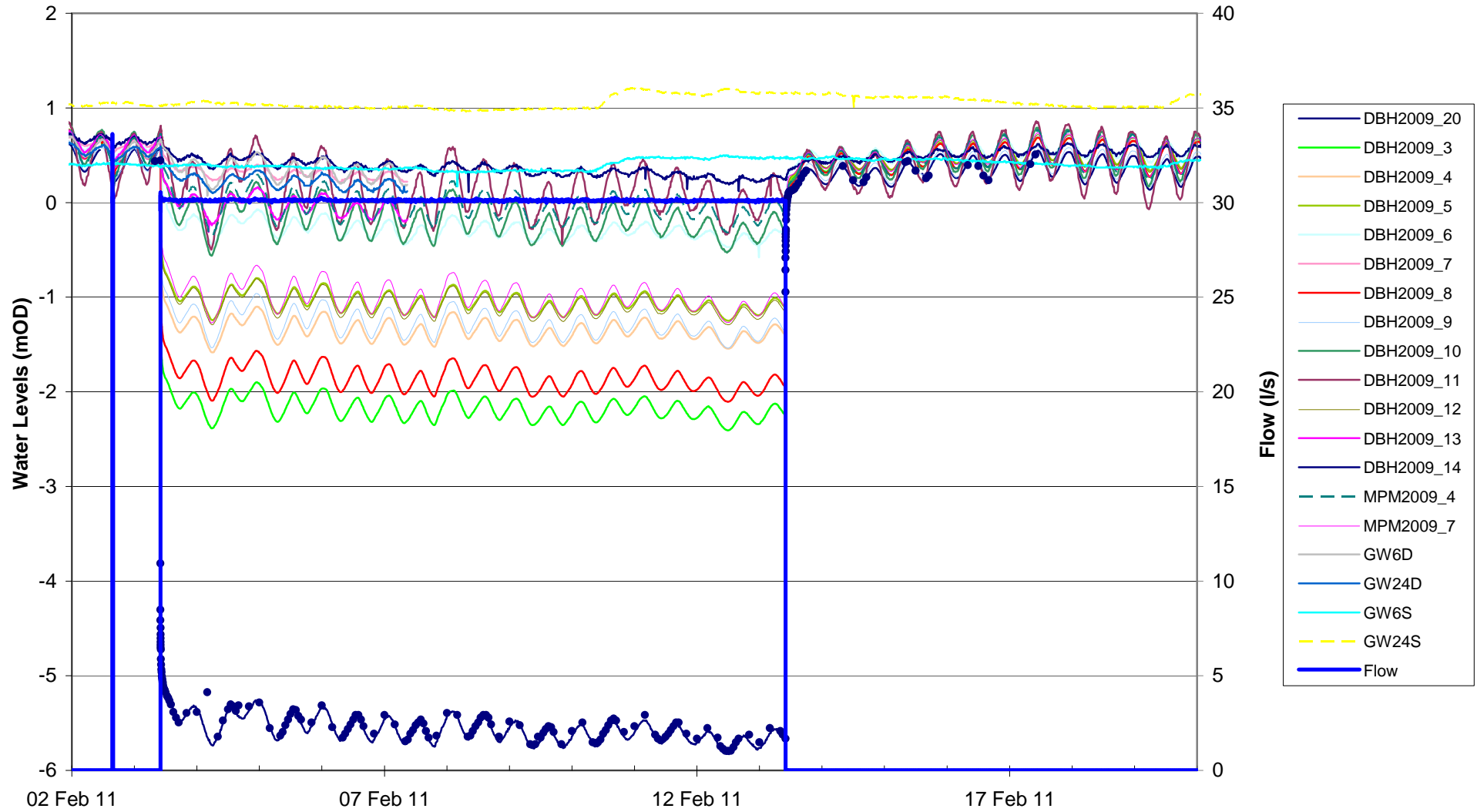
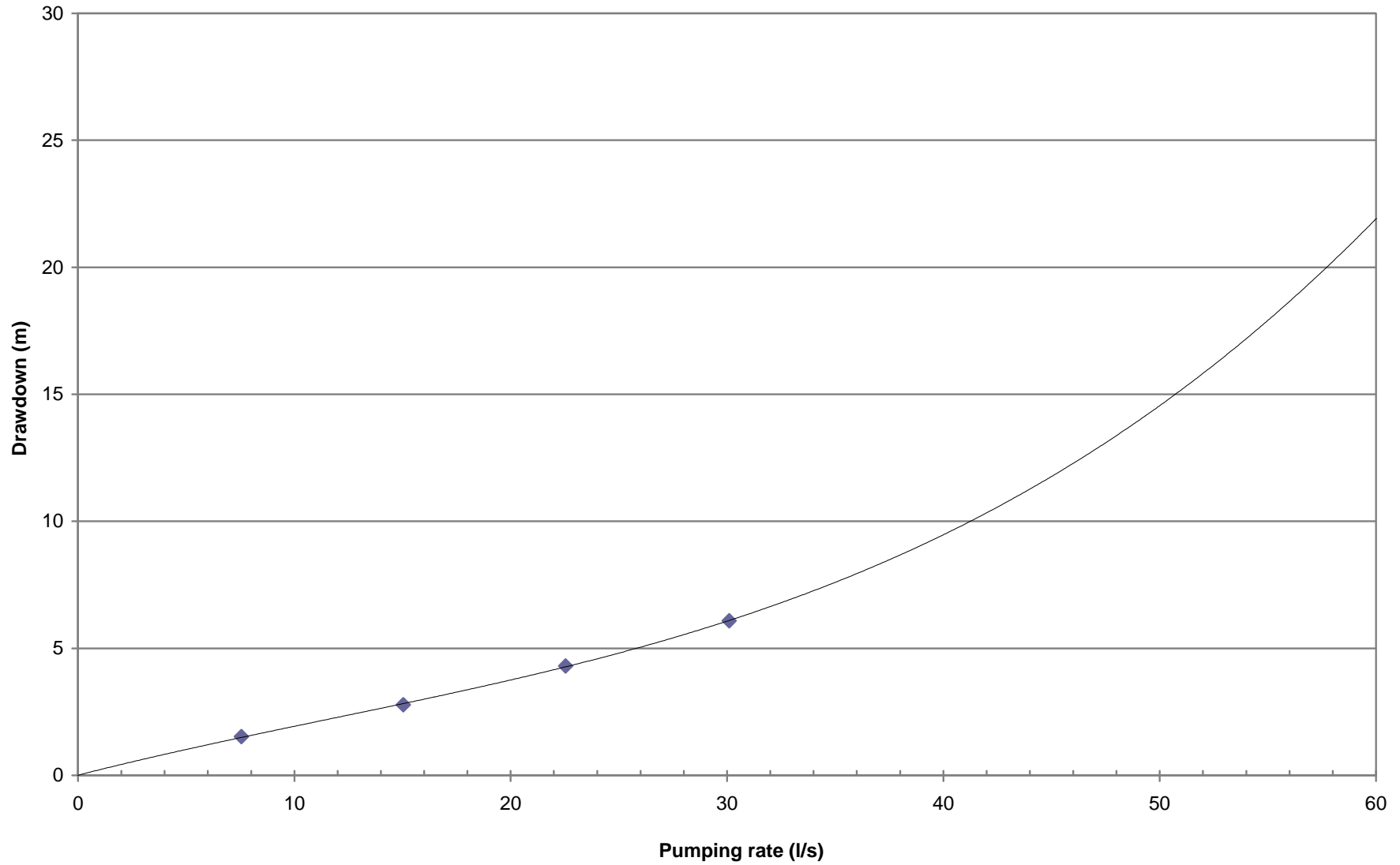


Figure 5: Step Test - Yield/Drawdown Plot



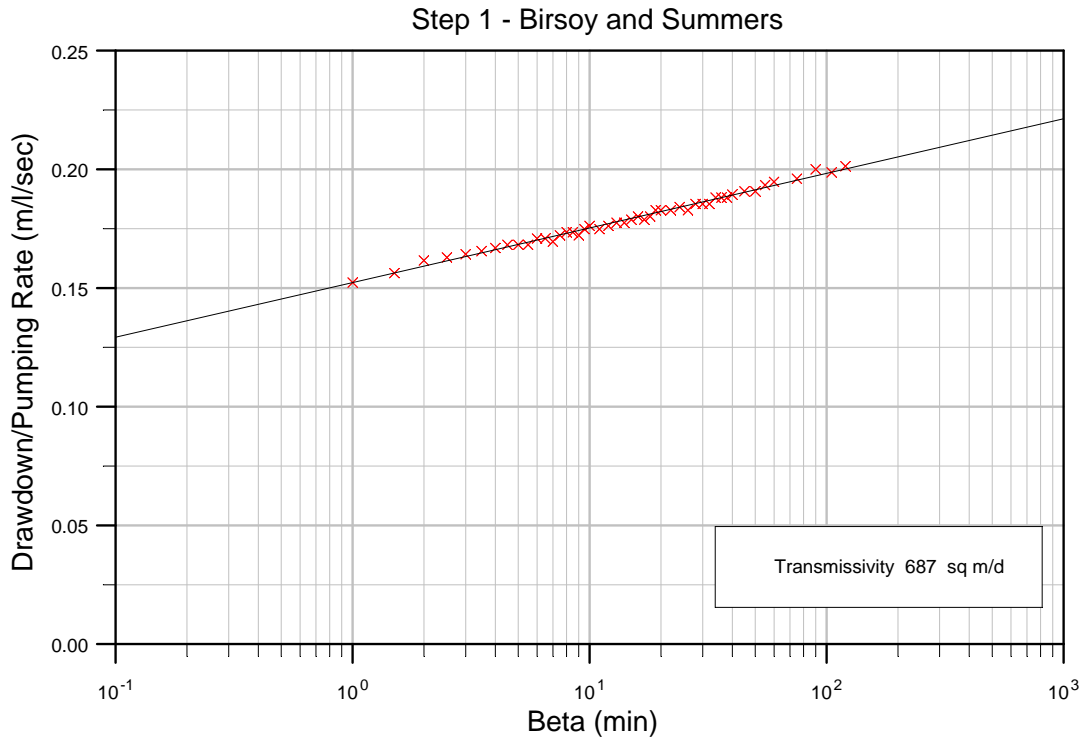


Figure 6: Step Test – Step 1

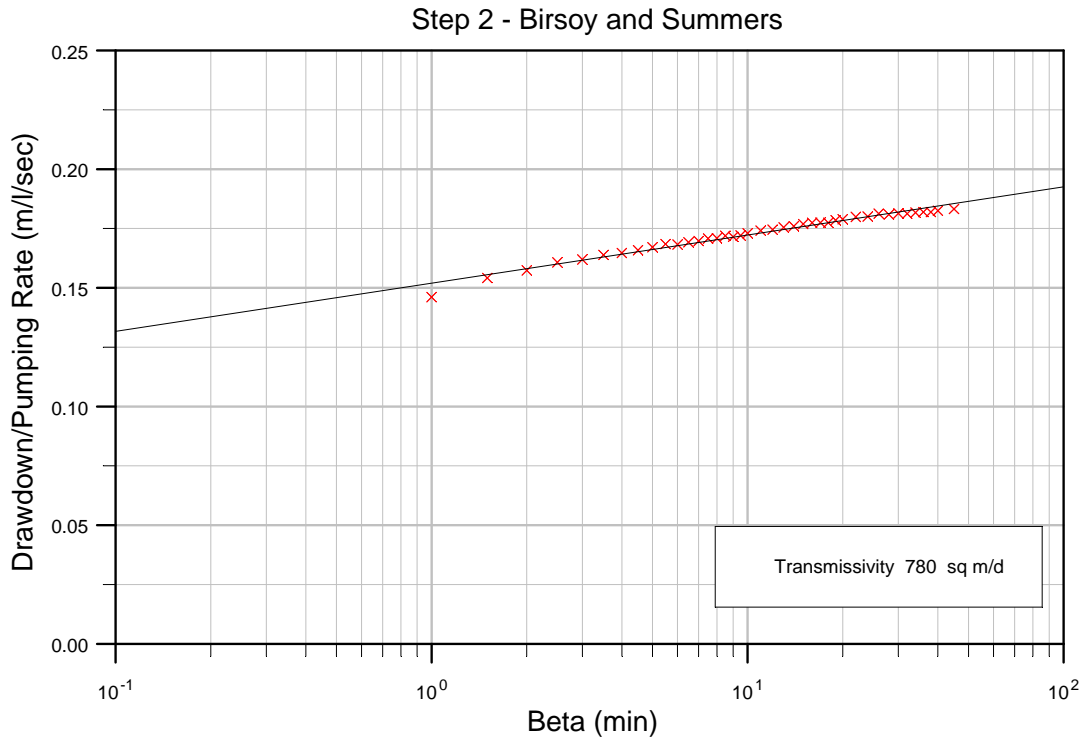


Figure 7: Step Test – Step 2

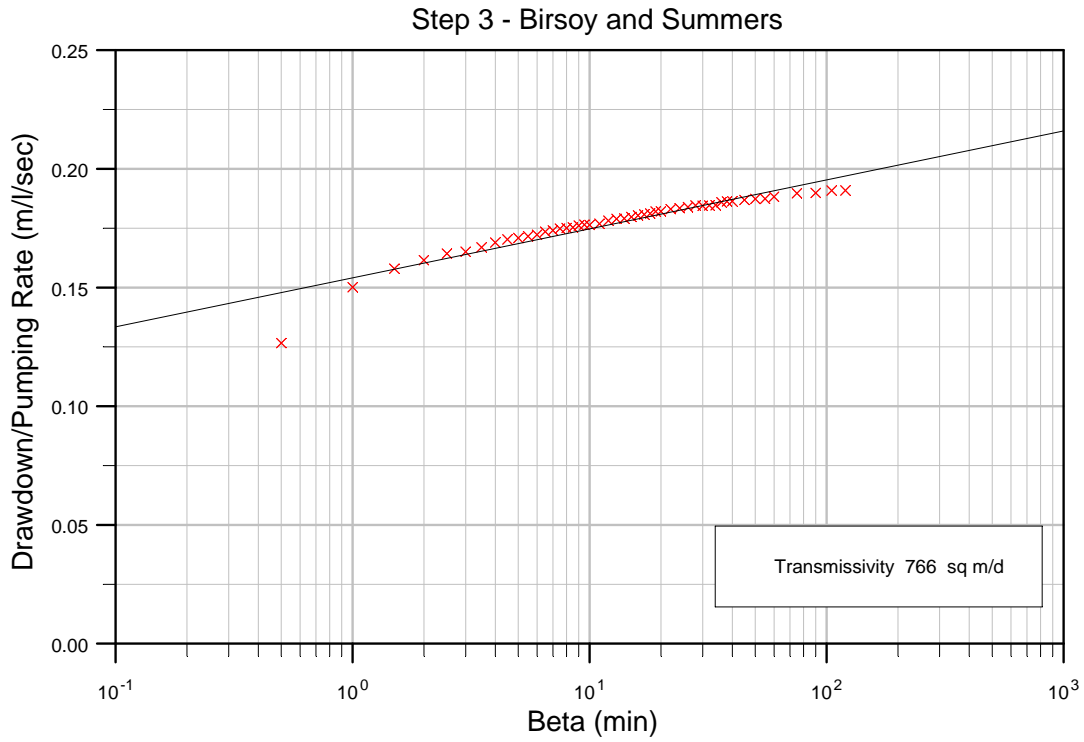


Figure 8: Step Test – Step 3

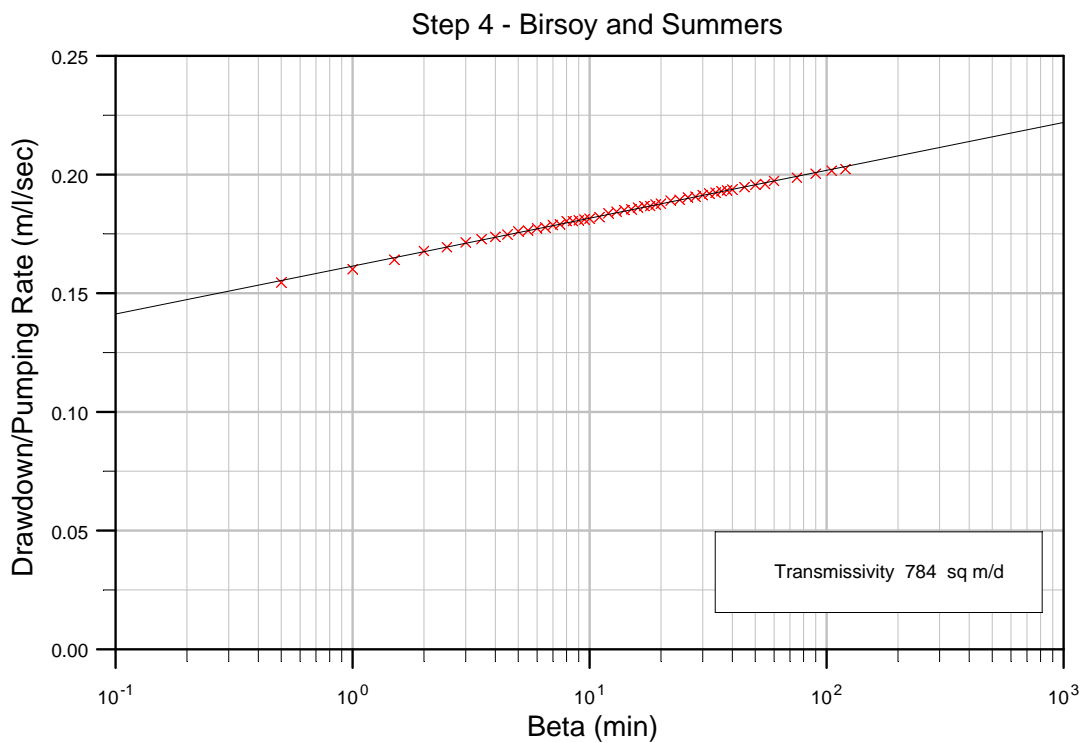


Figure 9: Step Test – Step 4

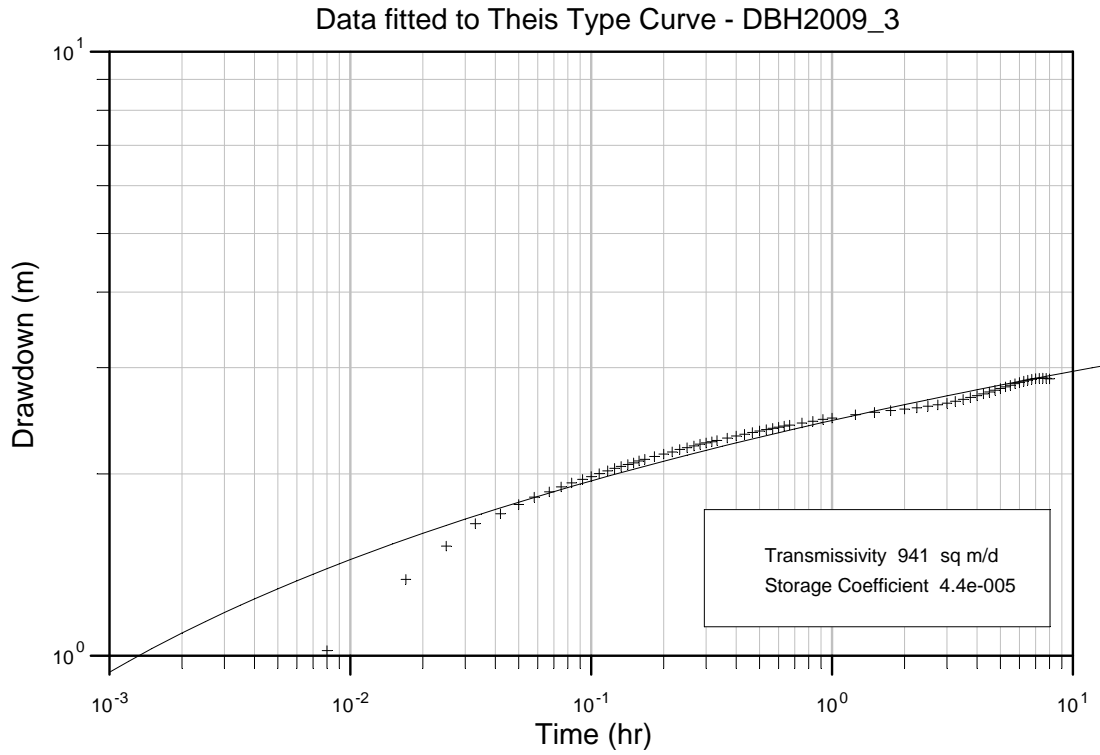


Figure 10: Theis Analysis – DBH2009_3

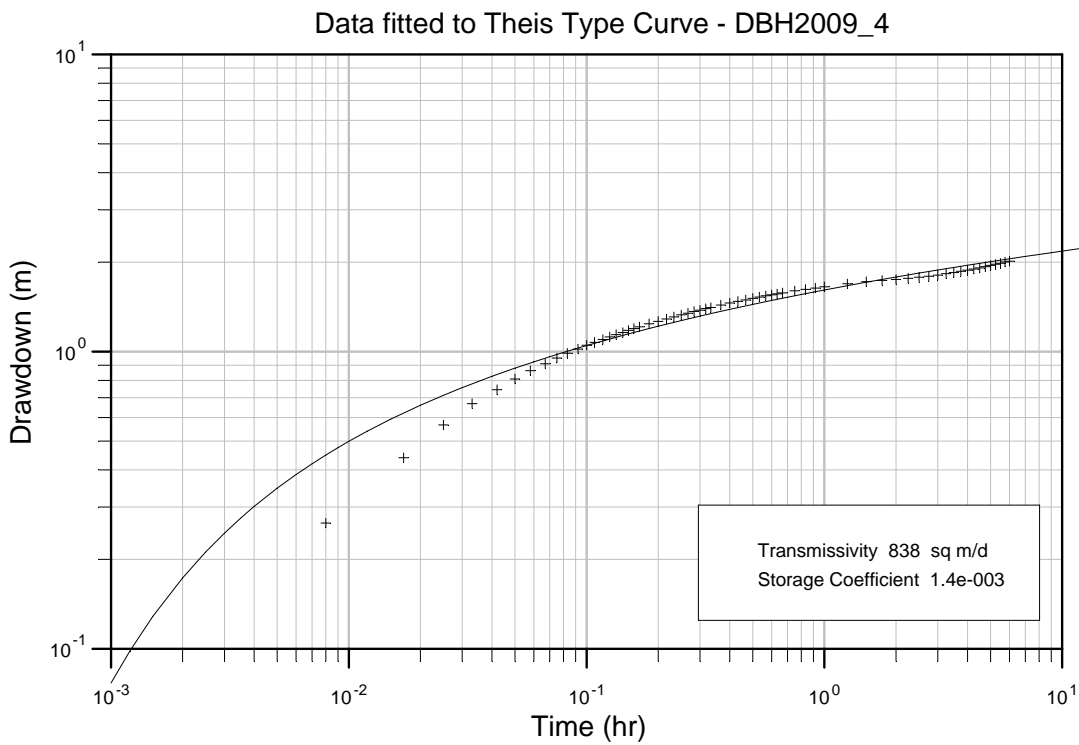


Figure 11: Theis Analysis – DBH2009_4

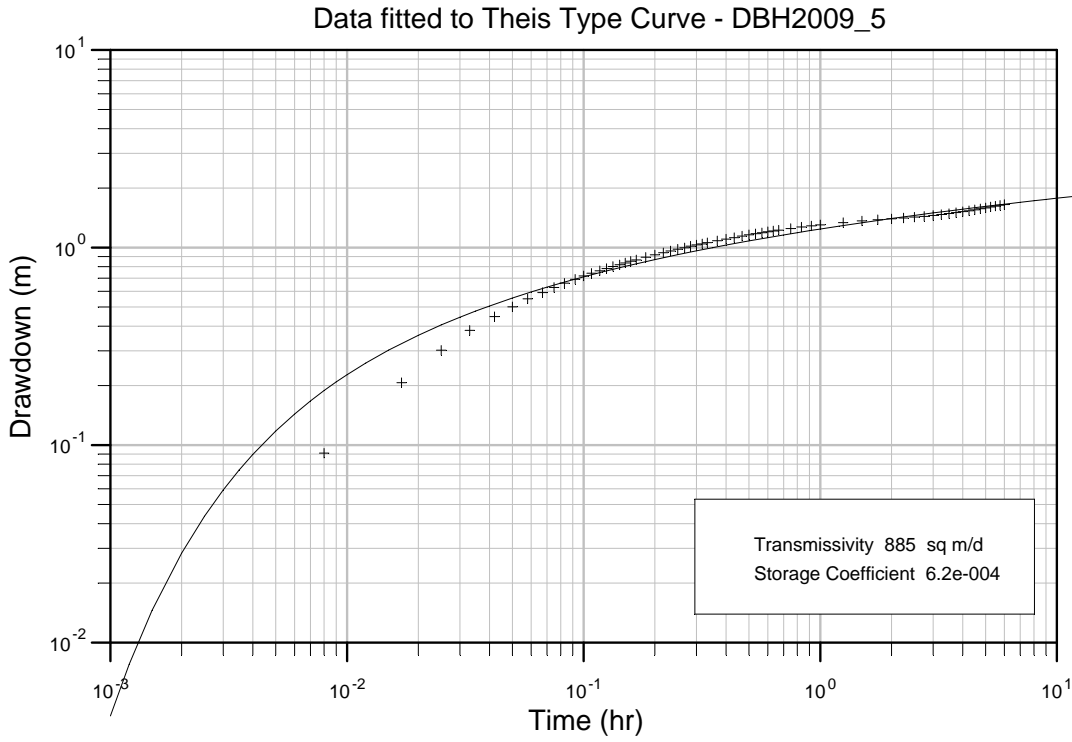


Figure 12: Theis Analysis – DBH2009_5

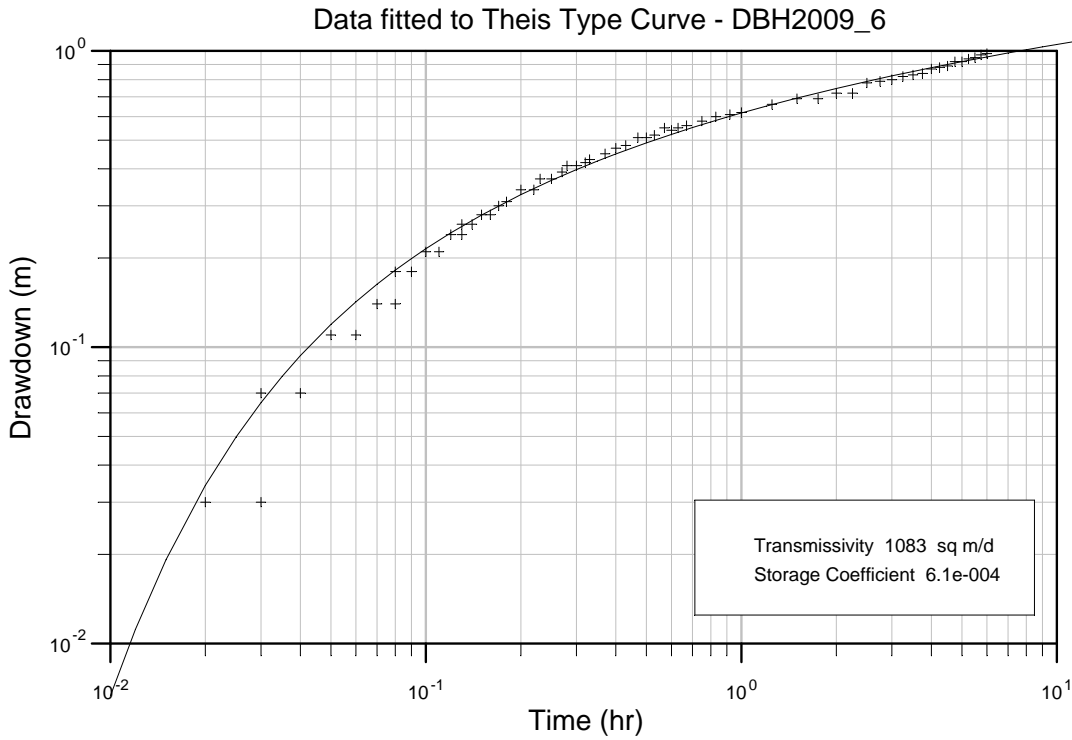


Figure 13: Theis Analysis – DBH2009_6

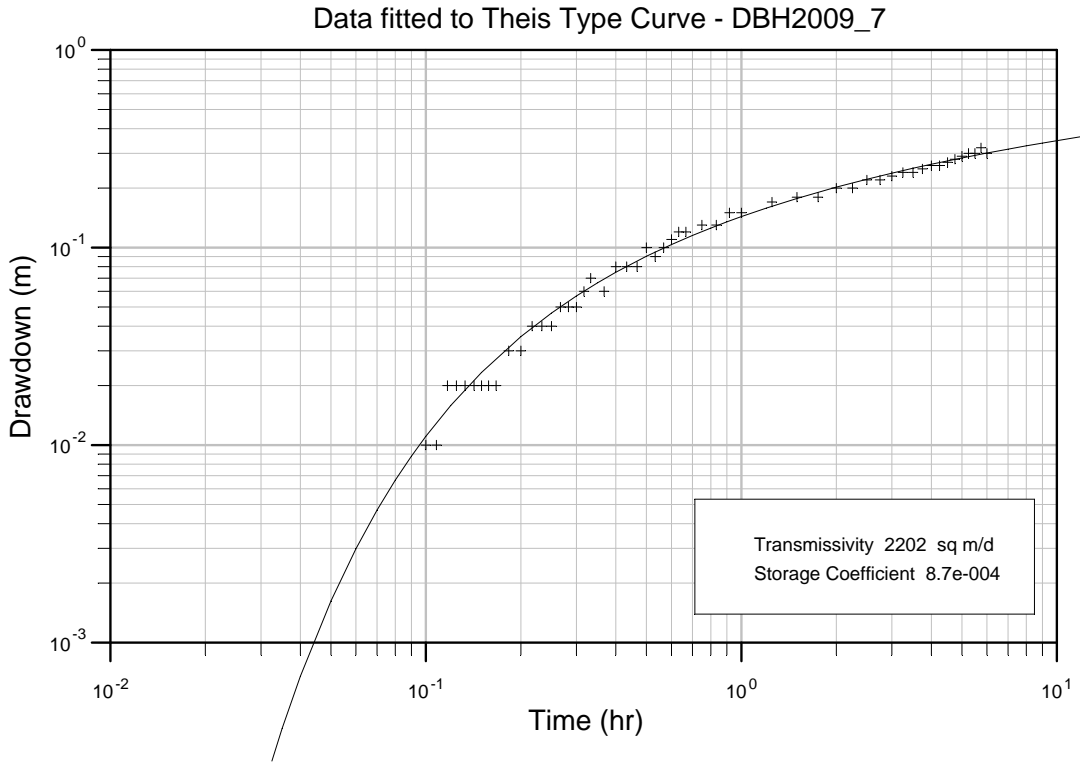


Figure 14: Theis Analysis – DBH2009_7

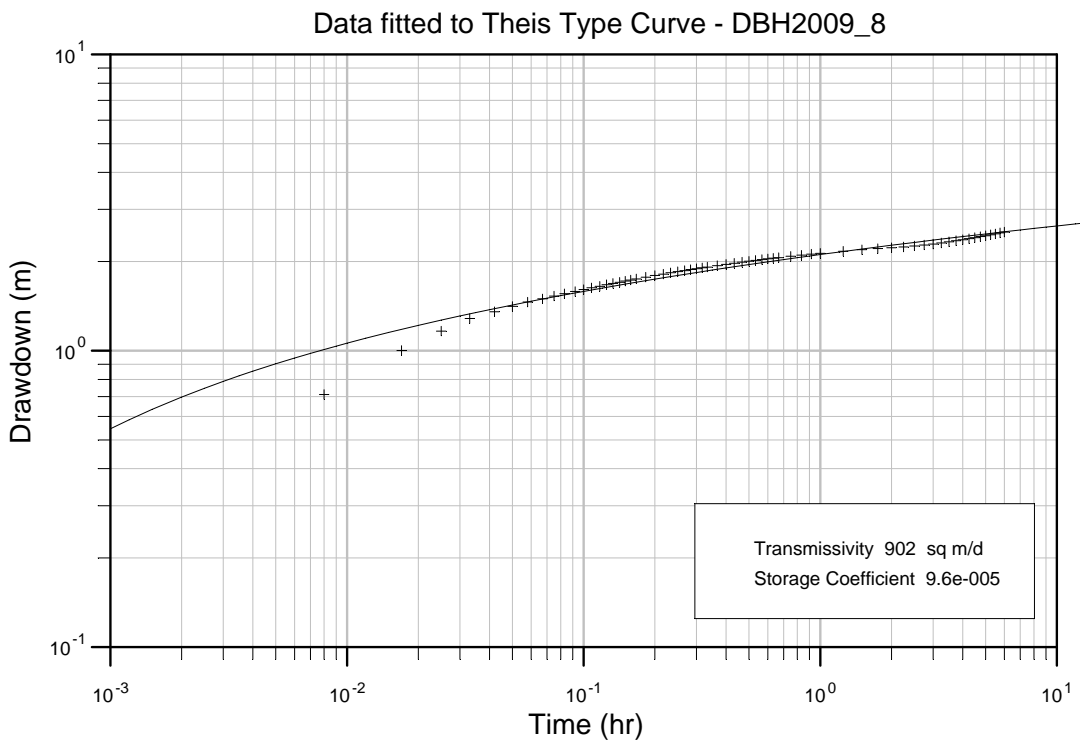


Figure 15: Theis Analysis – DBH2009_8

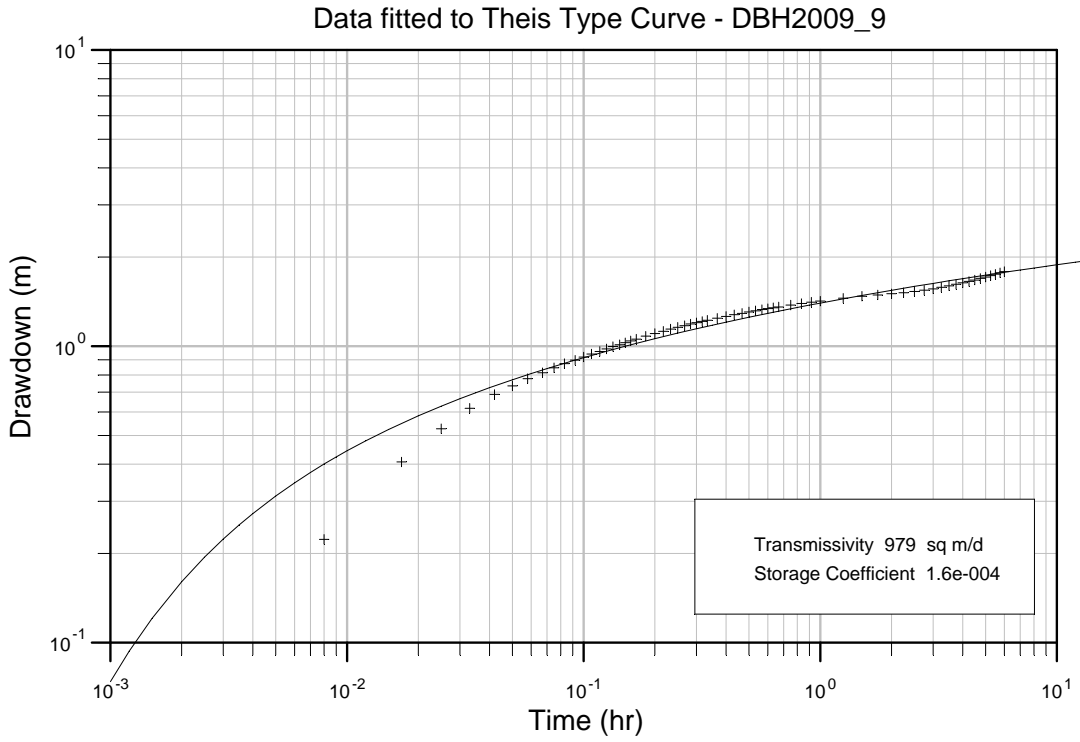


Figure 16: Theis Analysis – DBH2009_9

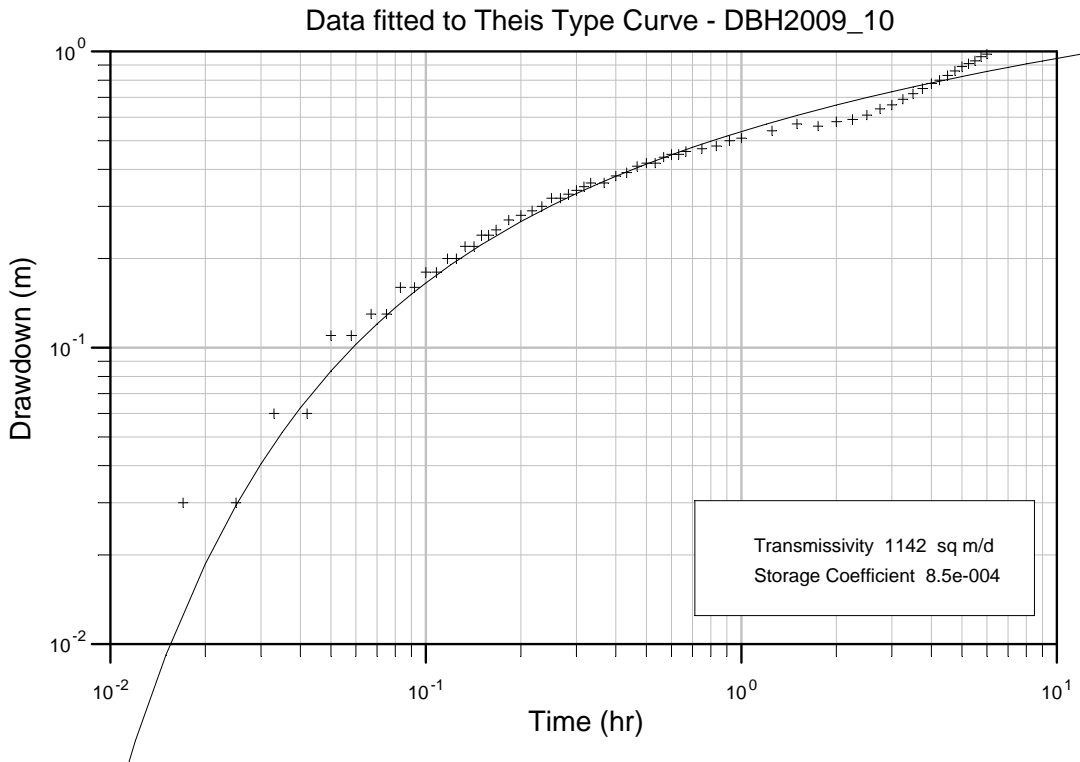


Figure 17: Theis Analysis – DBH2009_10

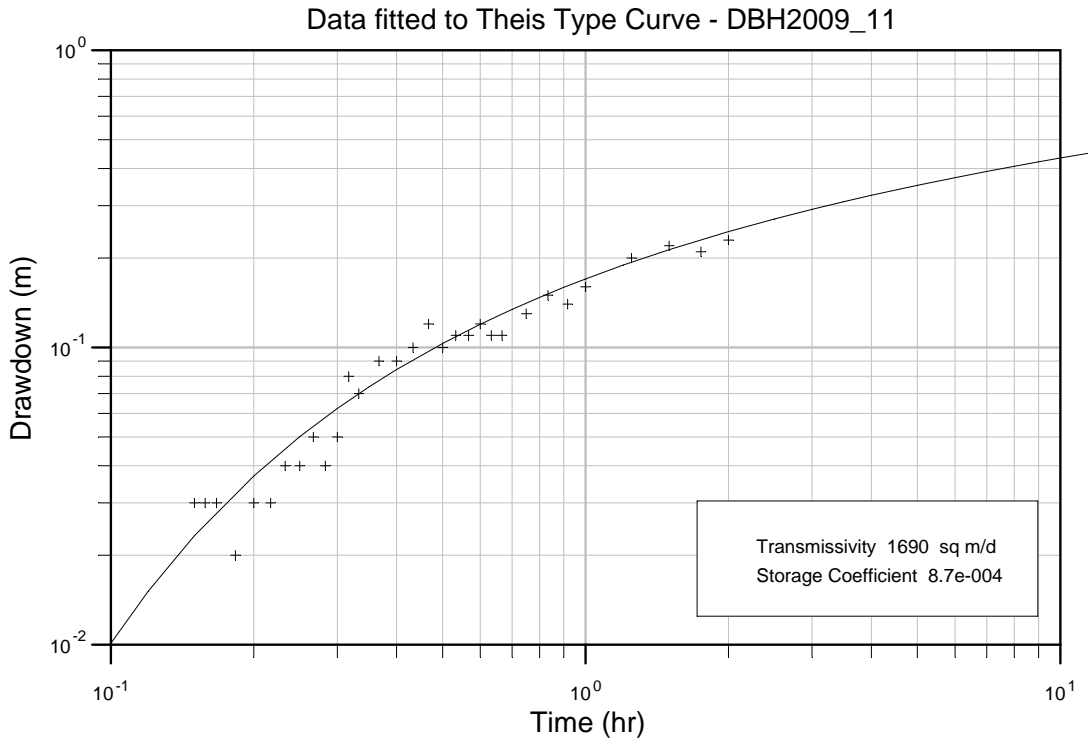


Figure 18: Theis Analysis – DBH2009_11

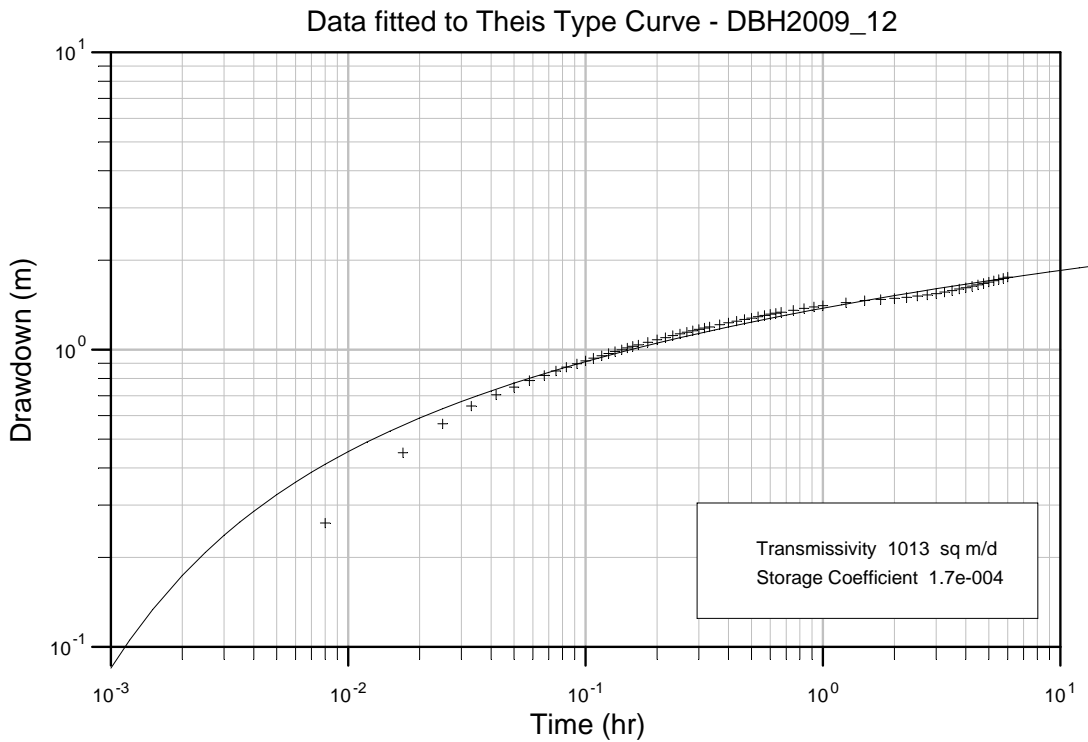


Figure 19: Theis Analysis – DBH2009_12

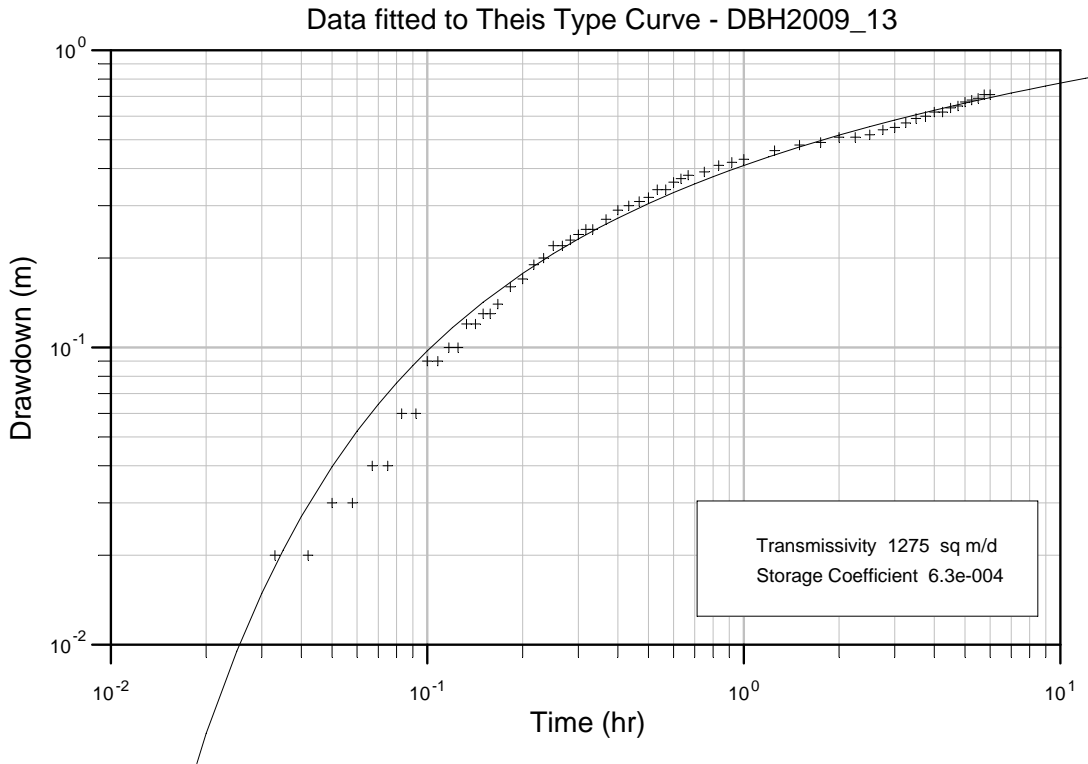


Figure 20: Theis Analysis – DBH2009_13

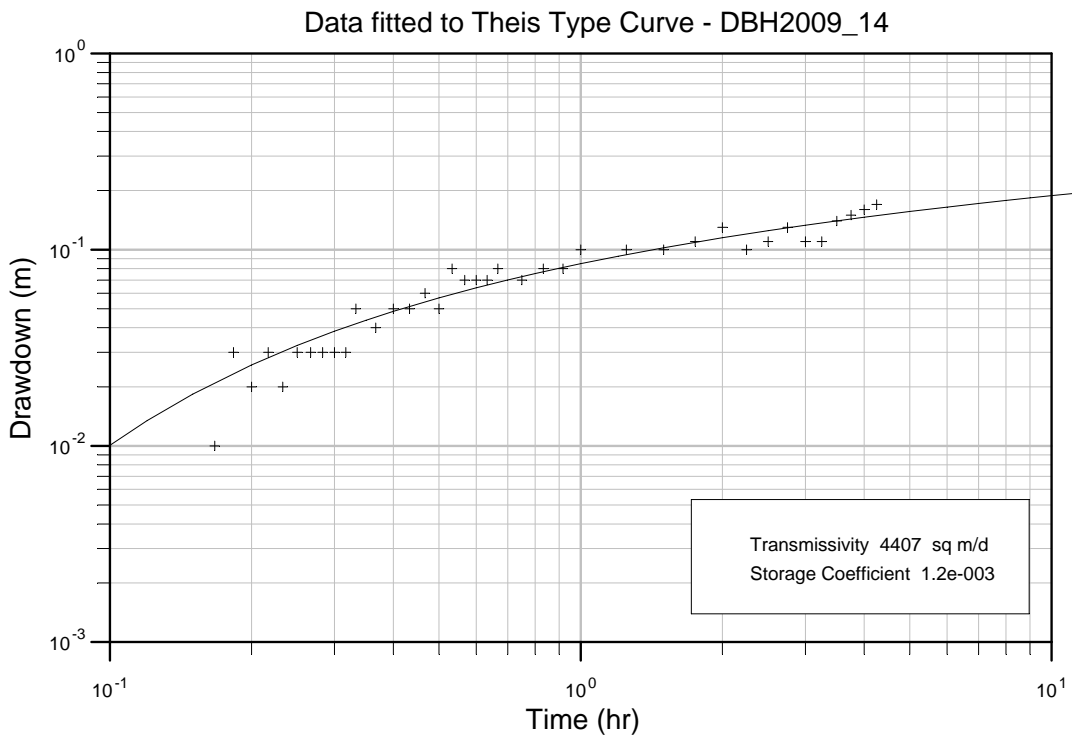


Figure 21: Theis Analysis – DBH2009_4

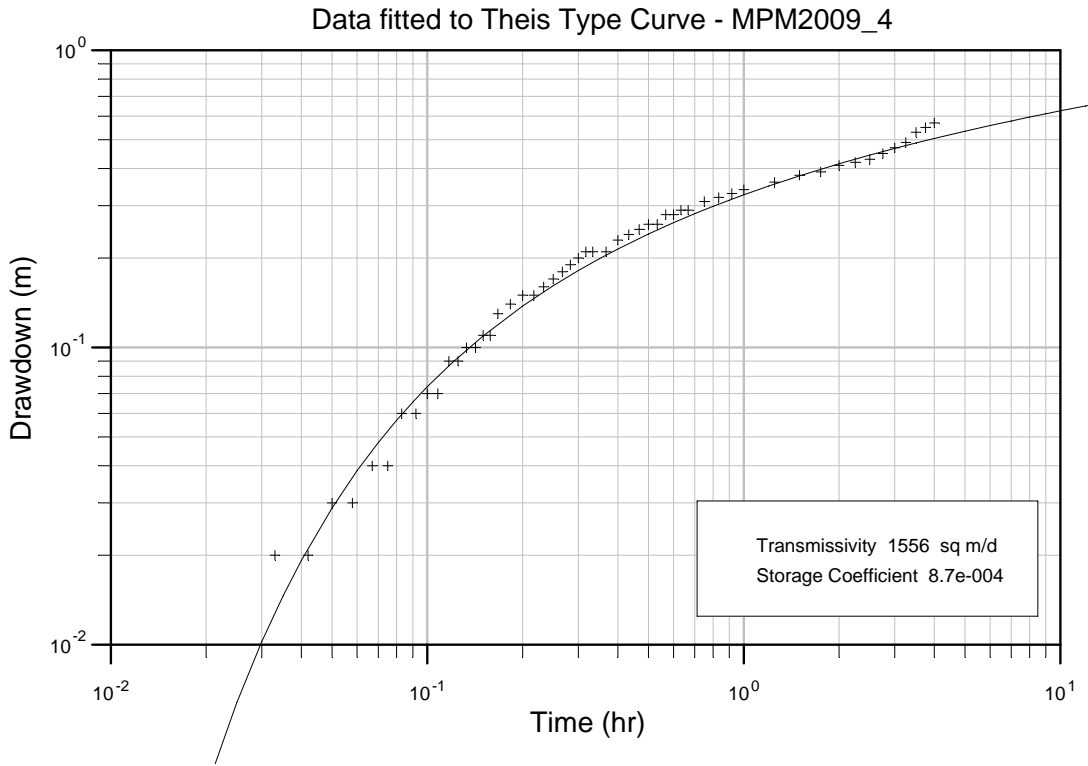


Figure 22: Theis Analysis – MPM2009_4

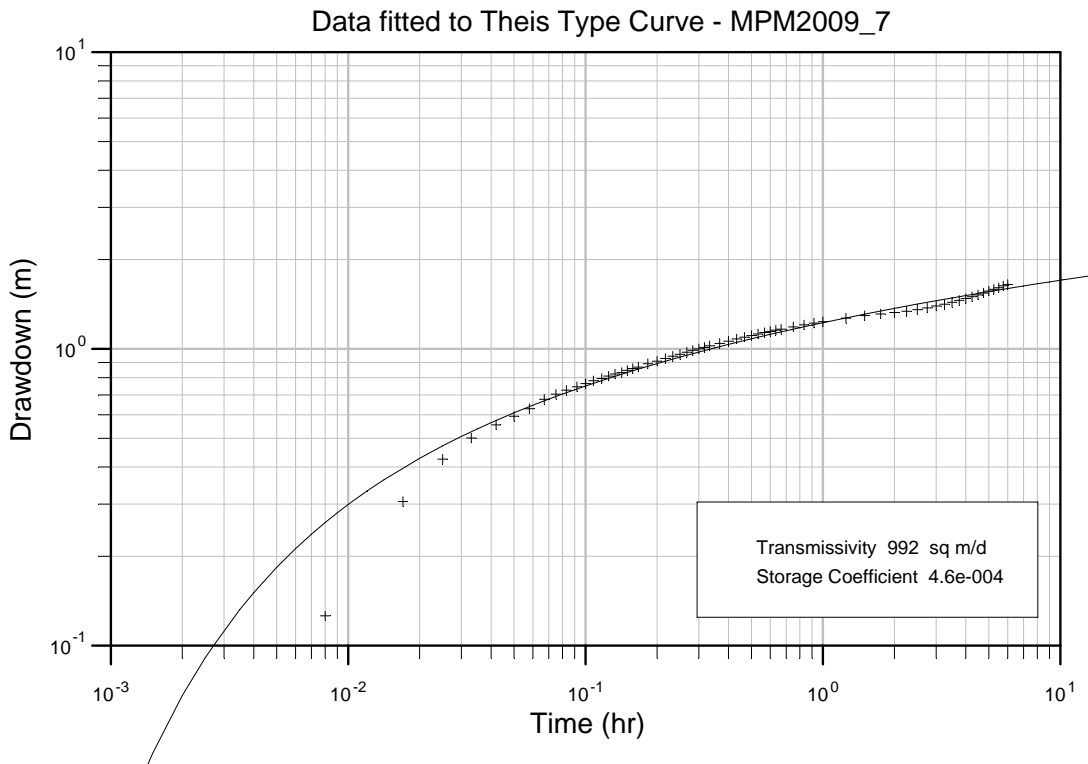


Figure 23: Theis Analysis – MPM2009_7

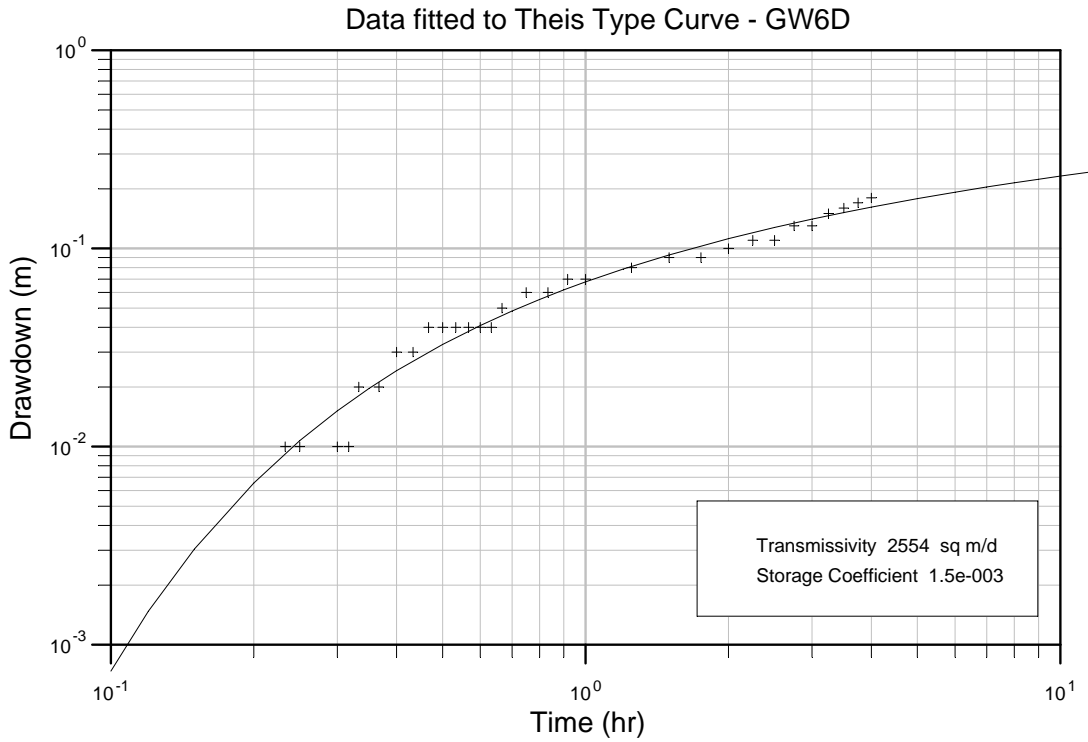


Figure 24: Theis Analysis – GW6D

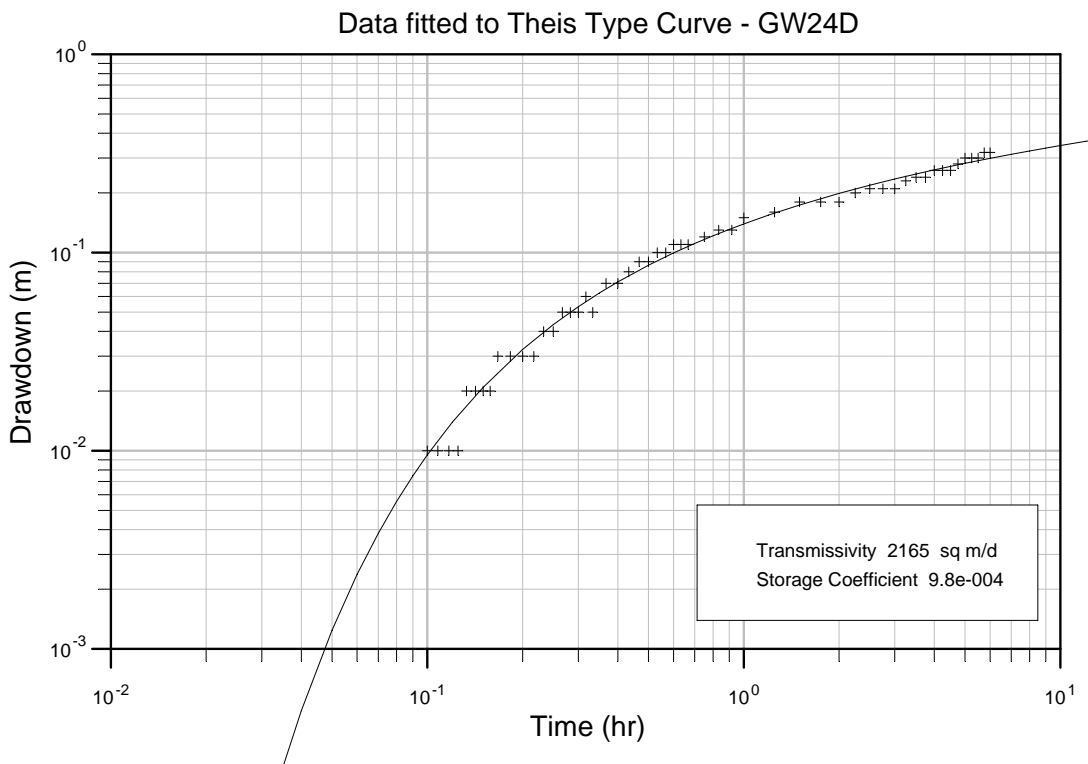
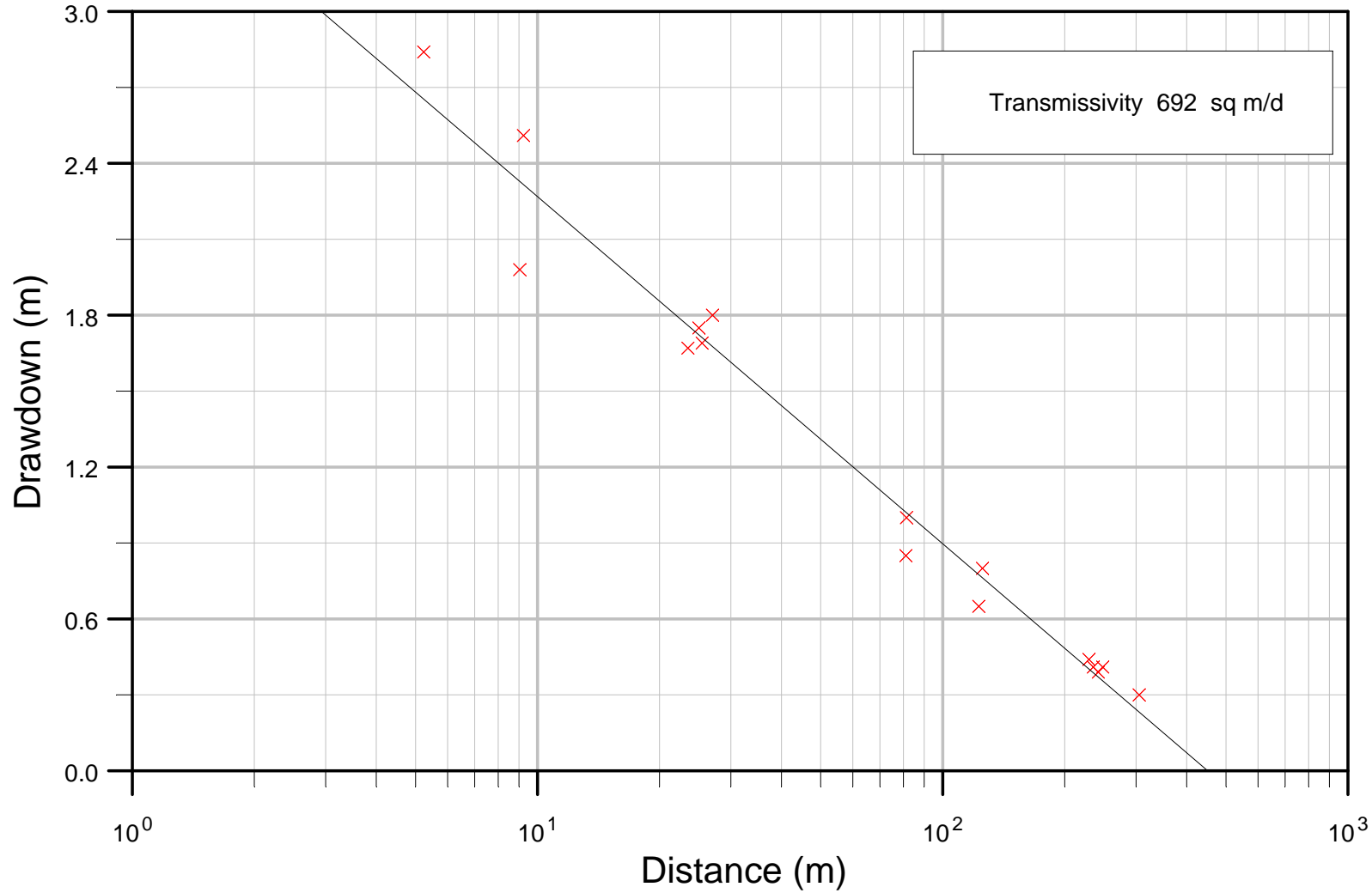


Figure 25: Theis Analysis – GW24D

Figure 26: Thiem's Analysis - Steady State



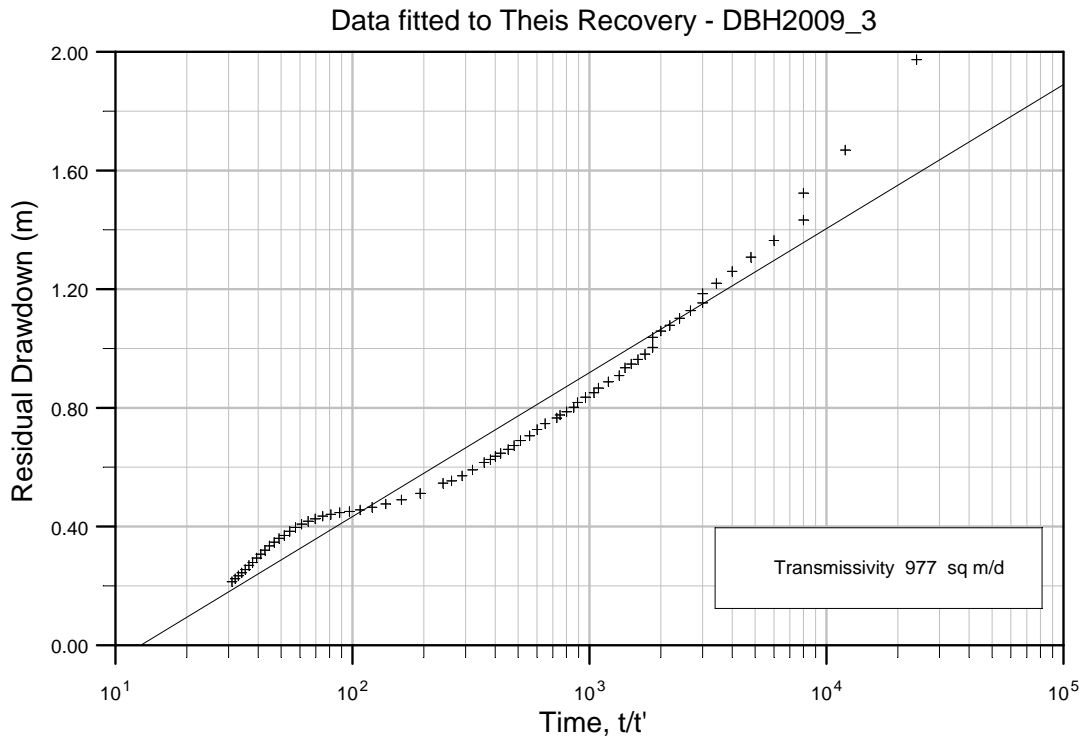


Figure 27: Theis Recovery Analysis – DBH2009_3

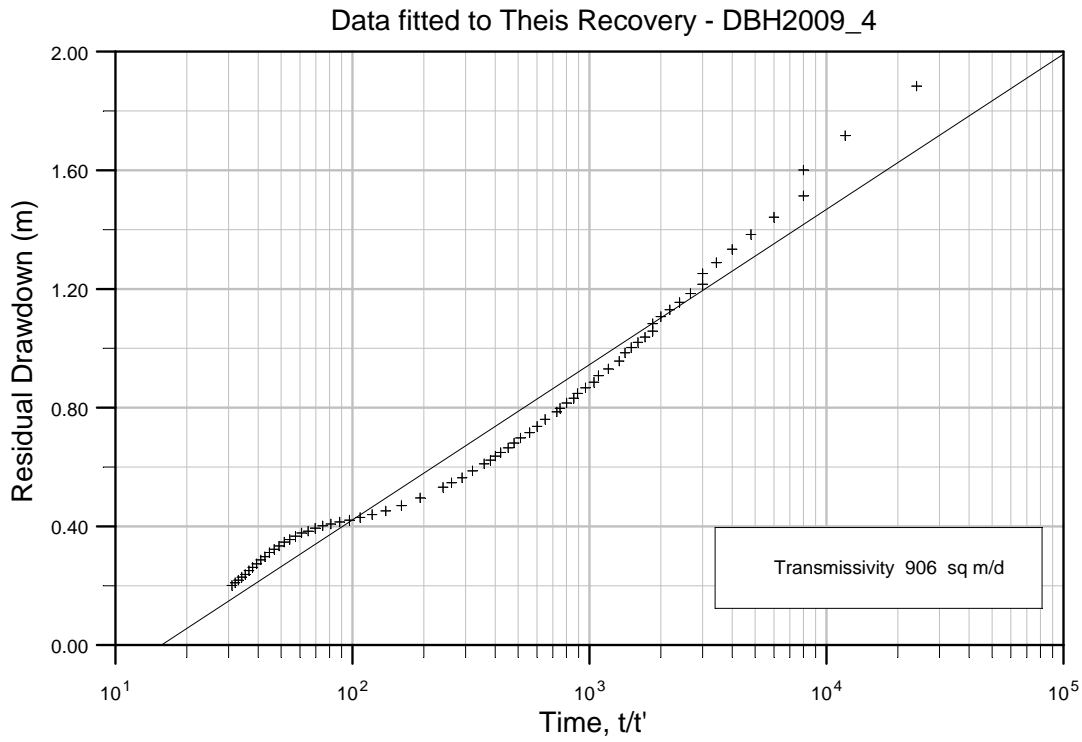


Figure 28: Theis Recovery Analysis – DBH2009_4

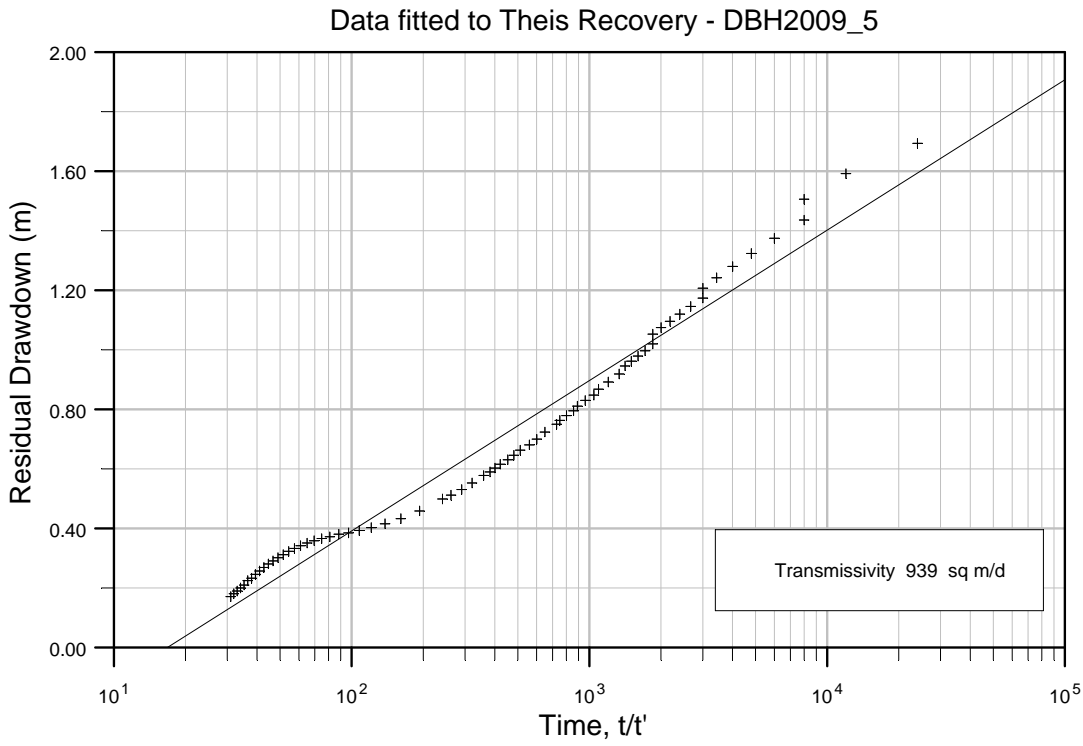


Figure 29: Theis Recovery Analysis – DBH2009_5

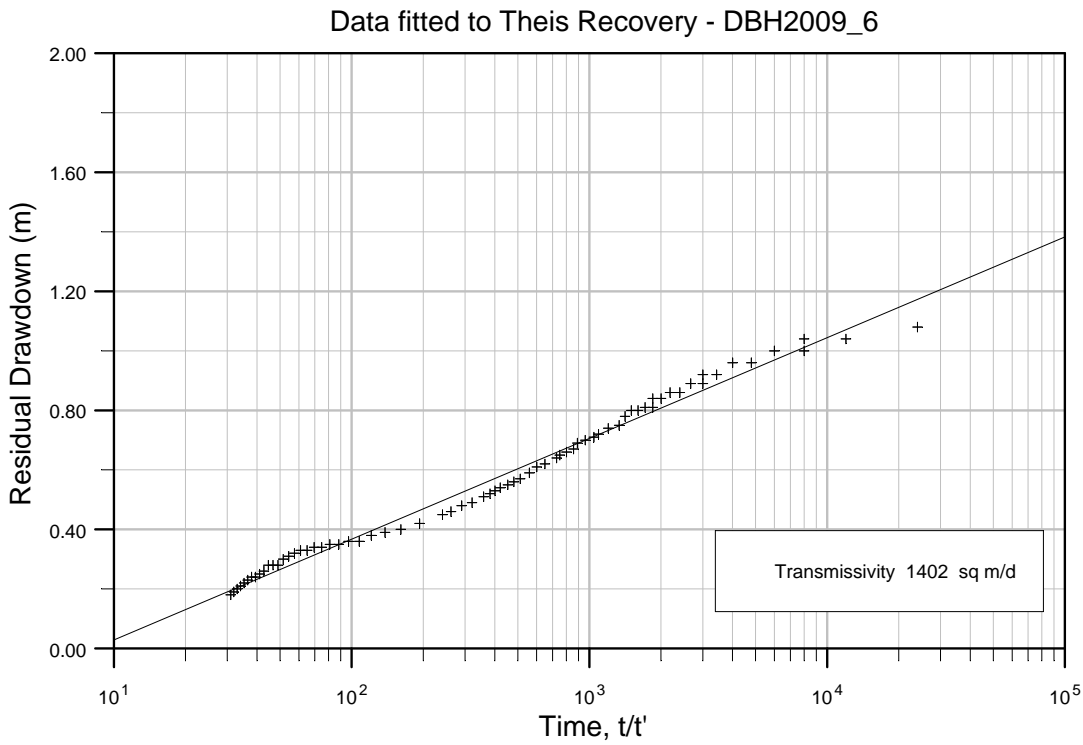


Figure 30: Theis Recovery Analysis – DBH2009_6

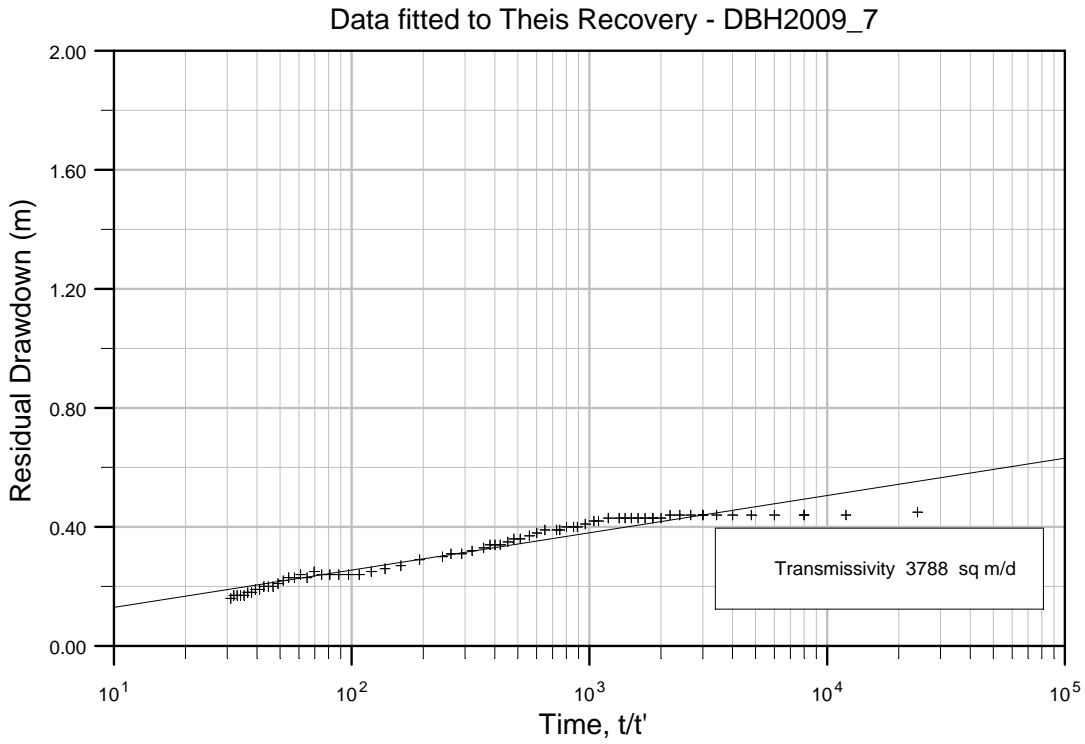


Figure 31: Theis Recovery Analysis – DBH2009_7

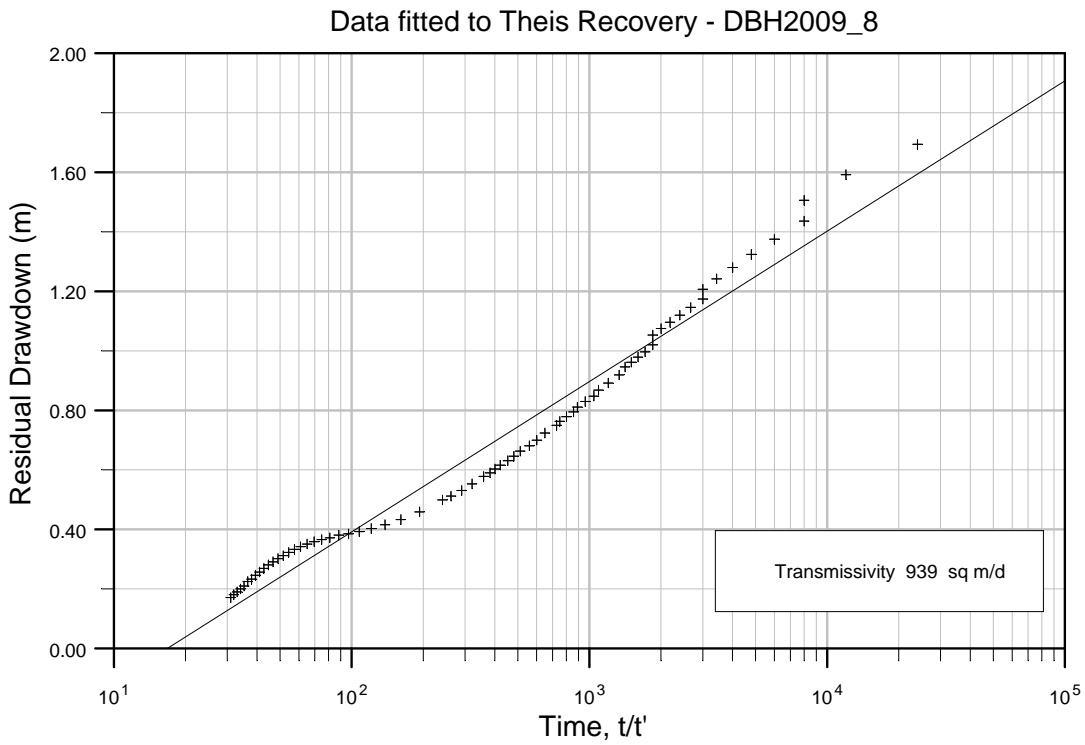


Figure 32: Theis Recovery Analysis – DBH2009_8

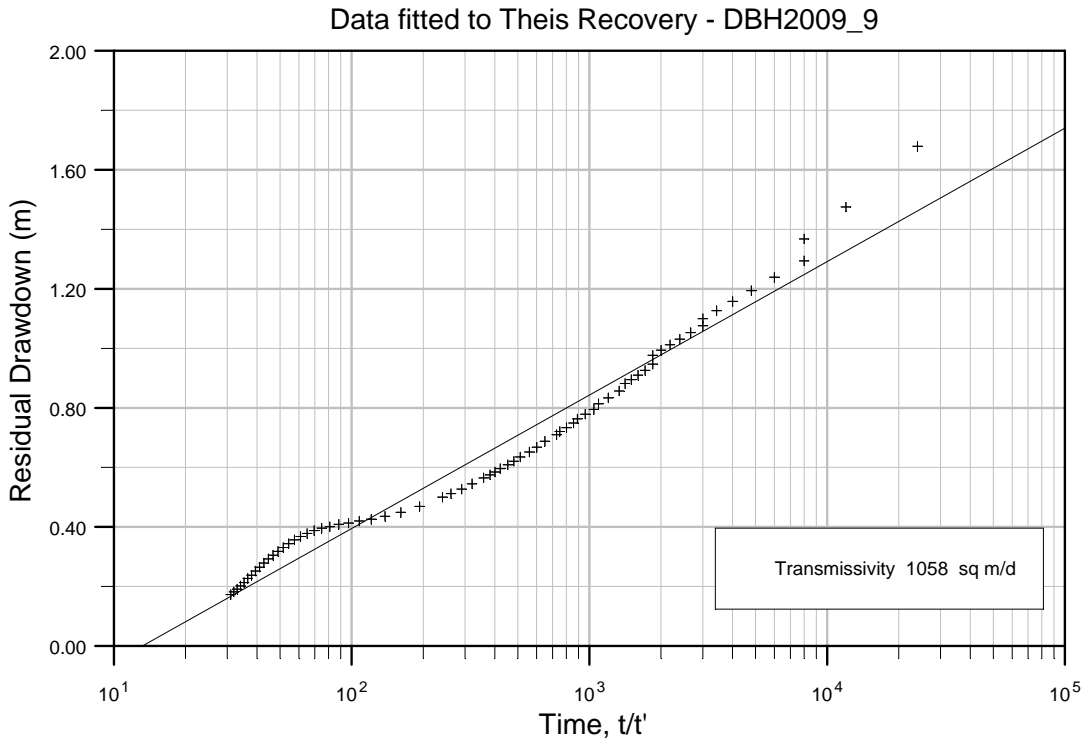


Figure 33: Theis Recovery Analysis – DBH2009_9

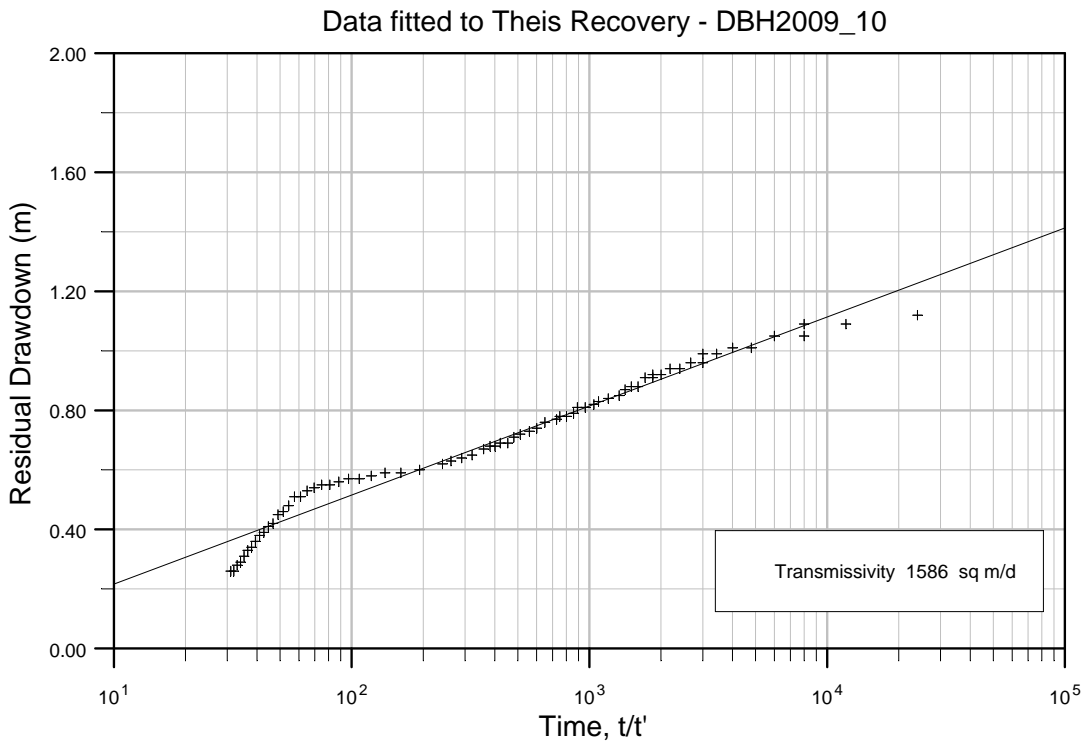


Figure 34: Theis Recovery Analysis – DBH2009_10

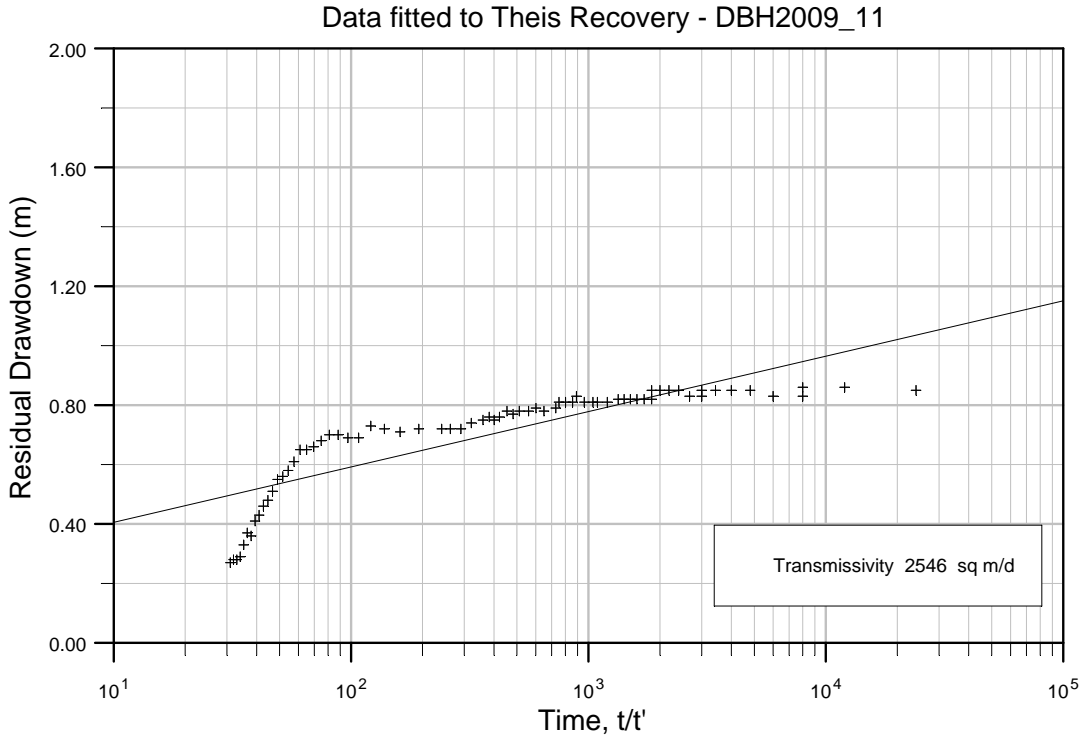


Figure 35: Theis Recovery Analysis – DBH2009_11

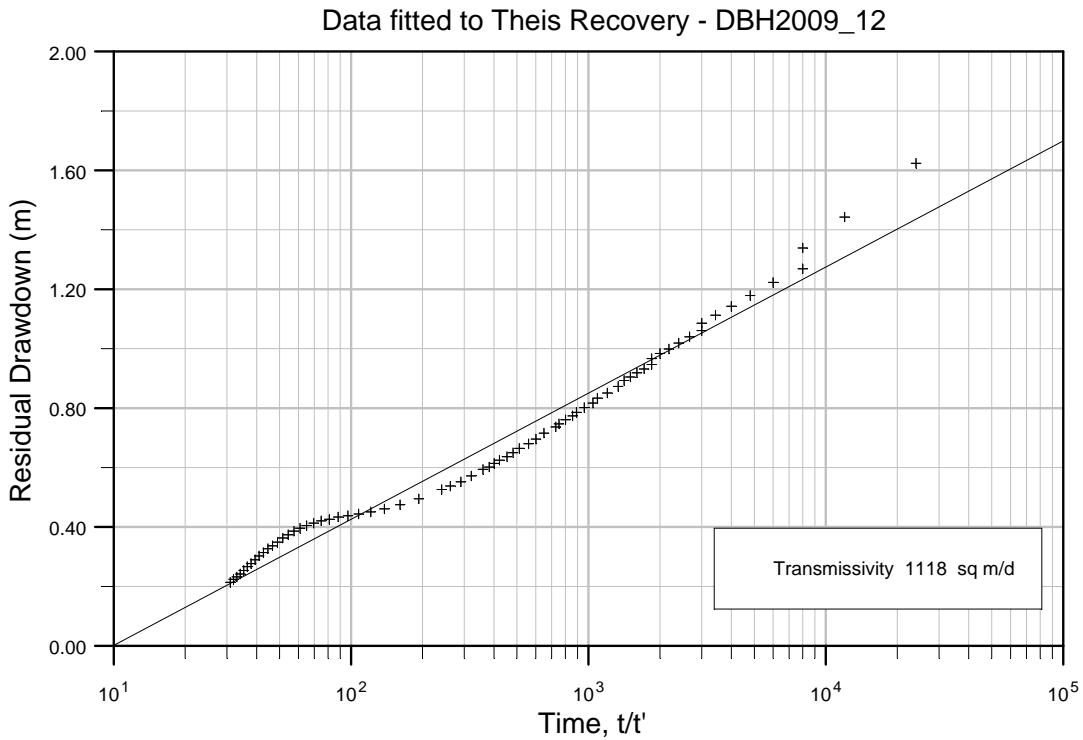


Figure 36: Theis Recovery Analysis – DBH2009_12

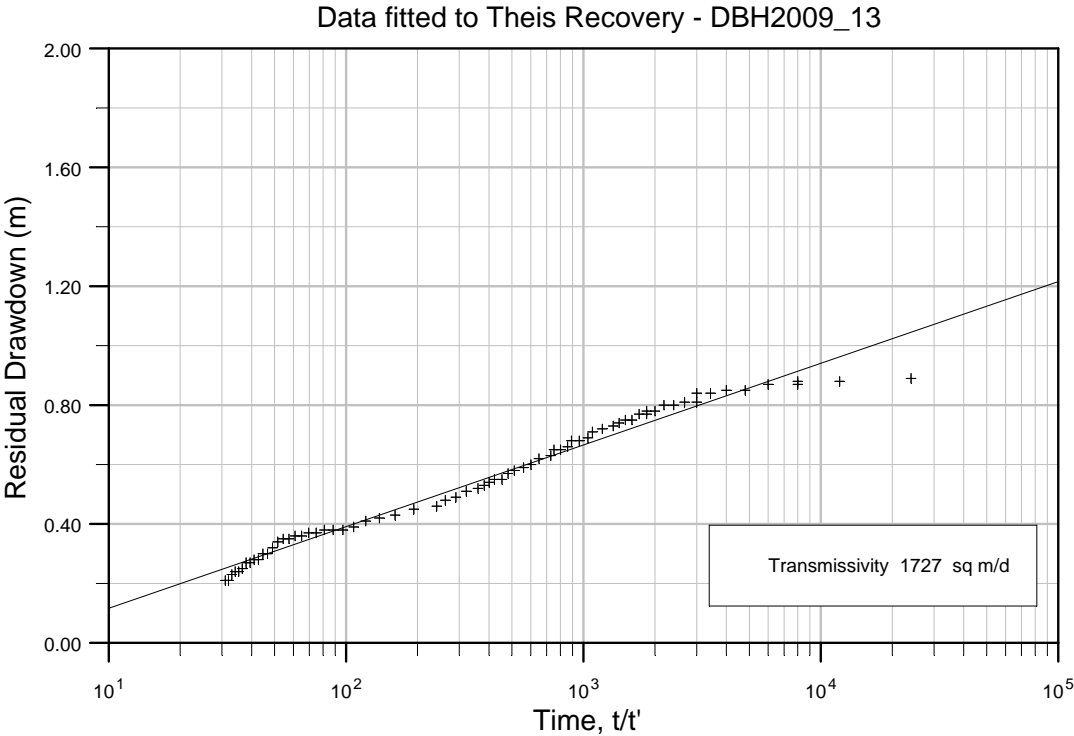


Figure 37: Theis Recovery Analysis – DBH2009_13

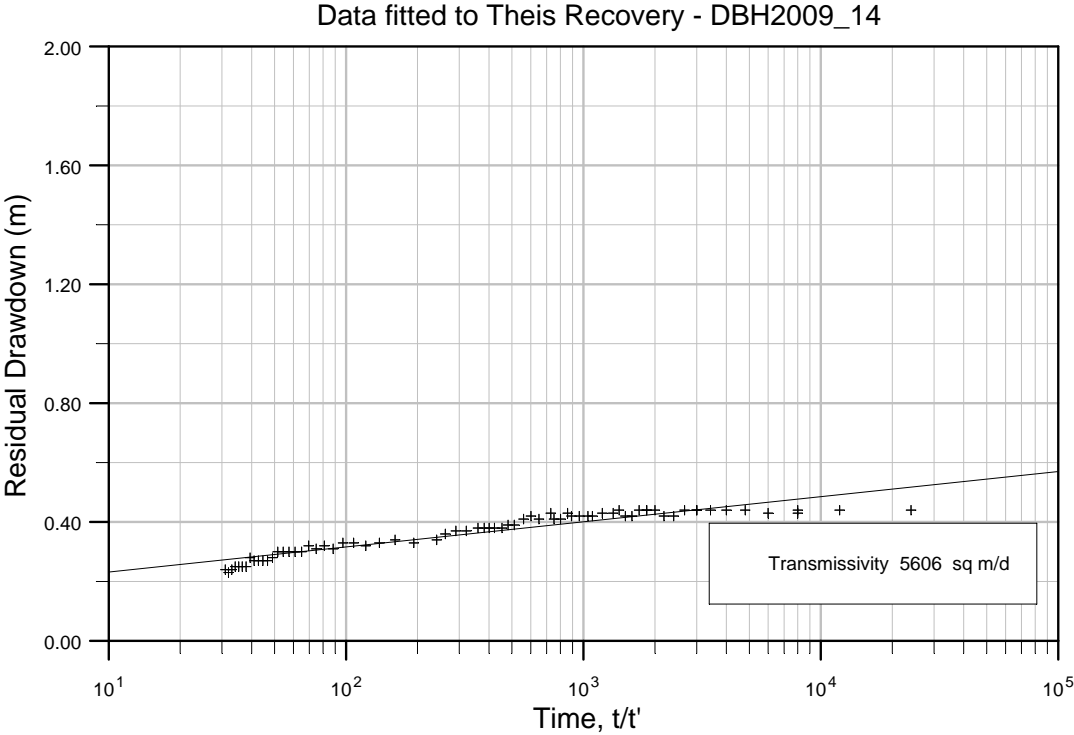


Figure 38: Theis Recovery Analysis – DBH2009_14

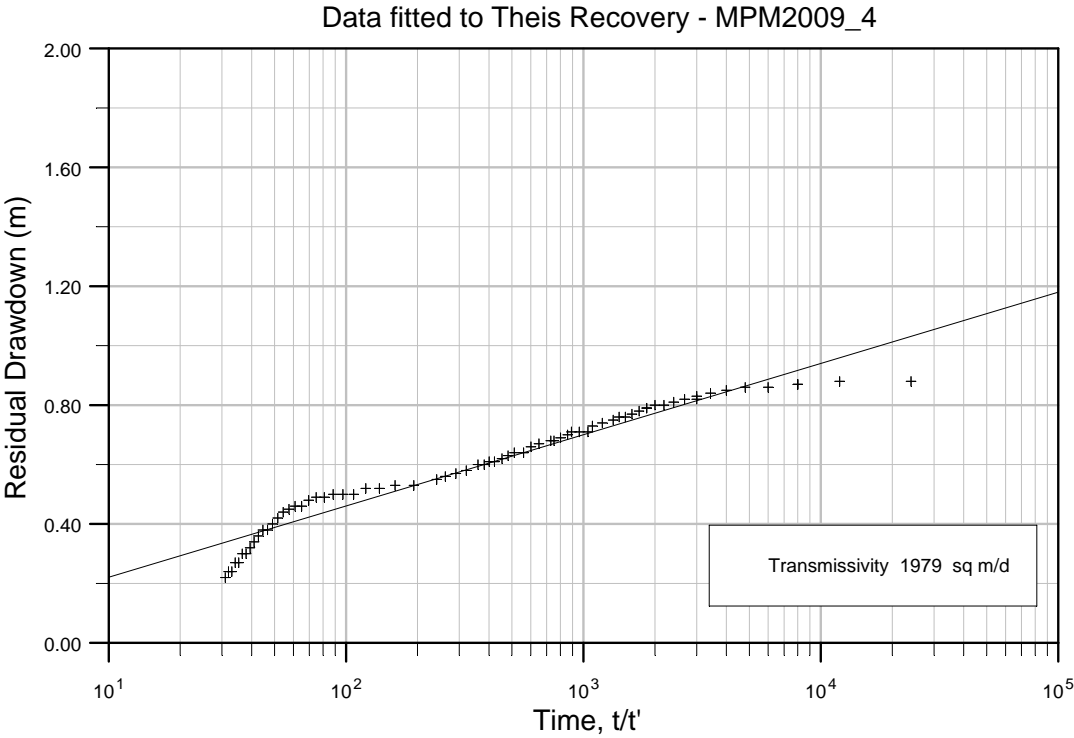


Figure 39: Theis Recovery Analysis – MPM2009_4

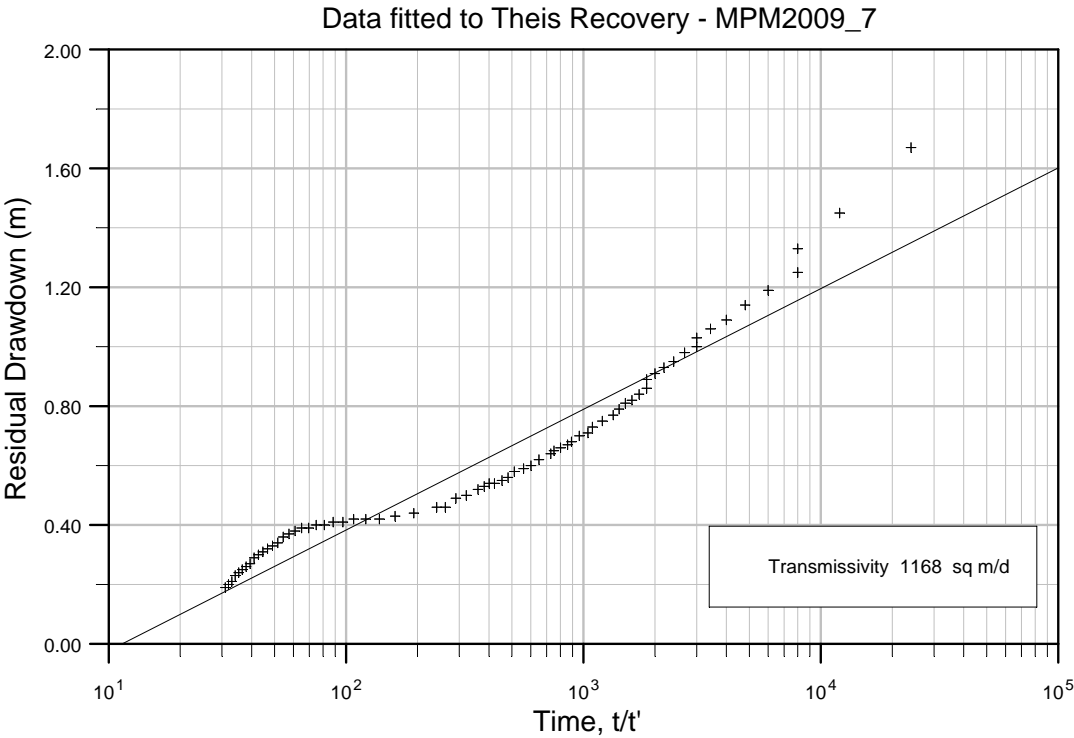


Figure 40: Theis Recovery Analysis – MPM2009_7

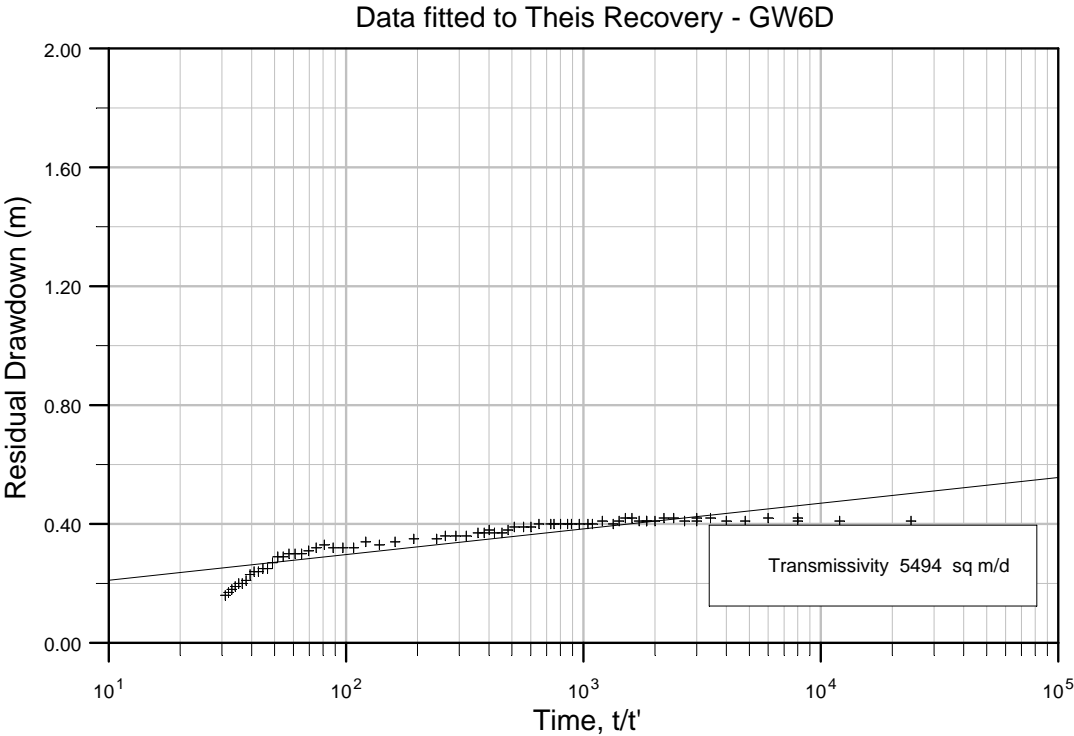


Figure 41: Theis Recovery Analysis – GW6D

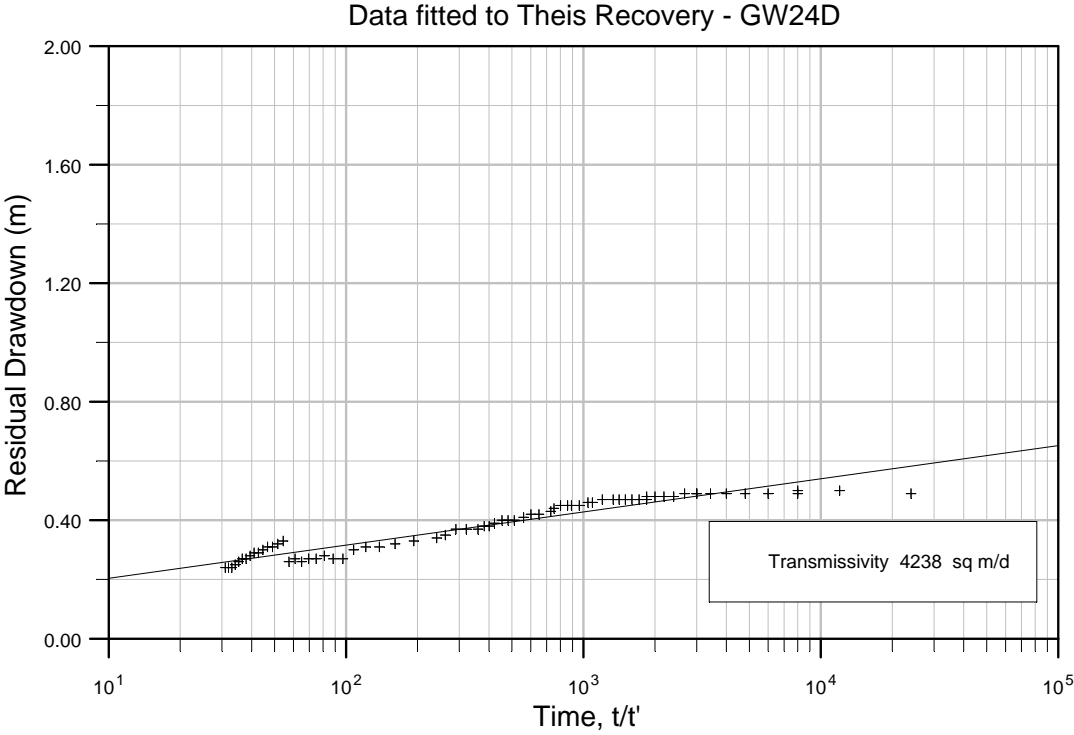
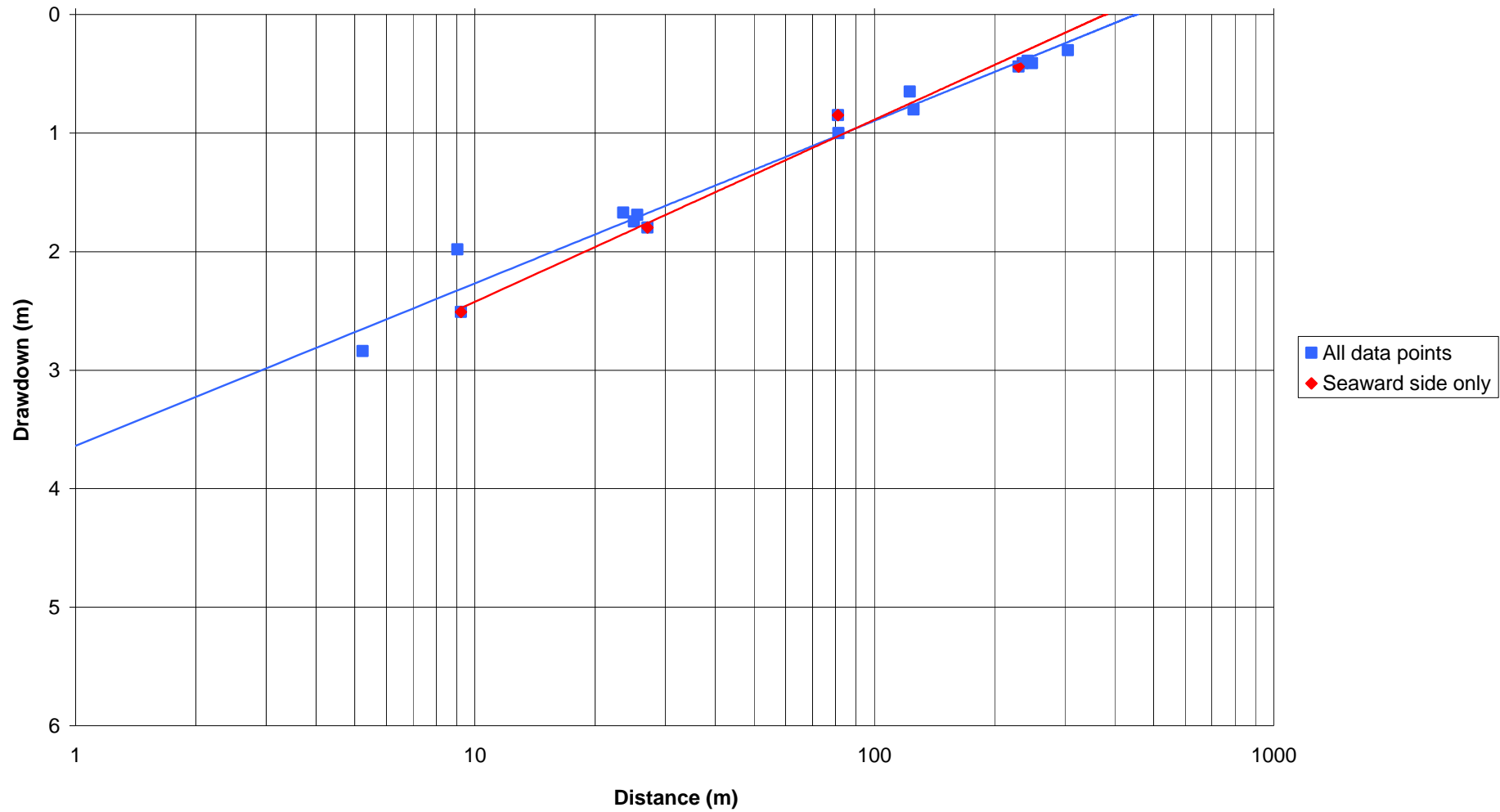
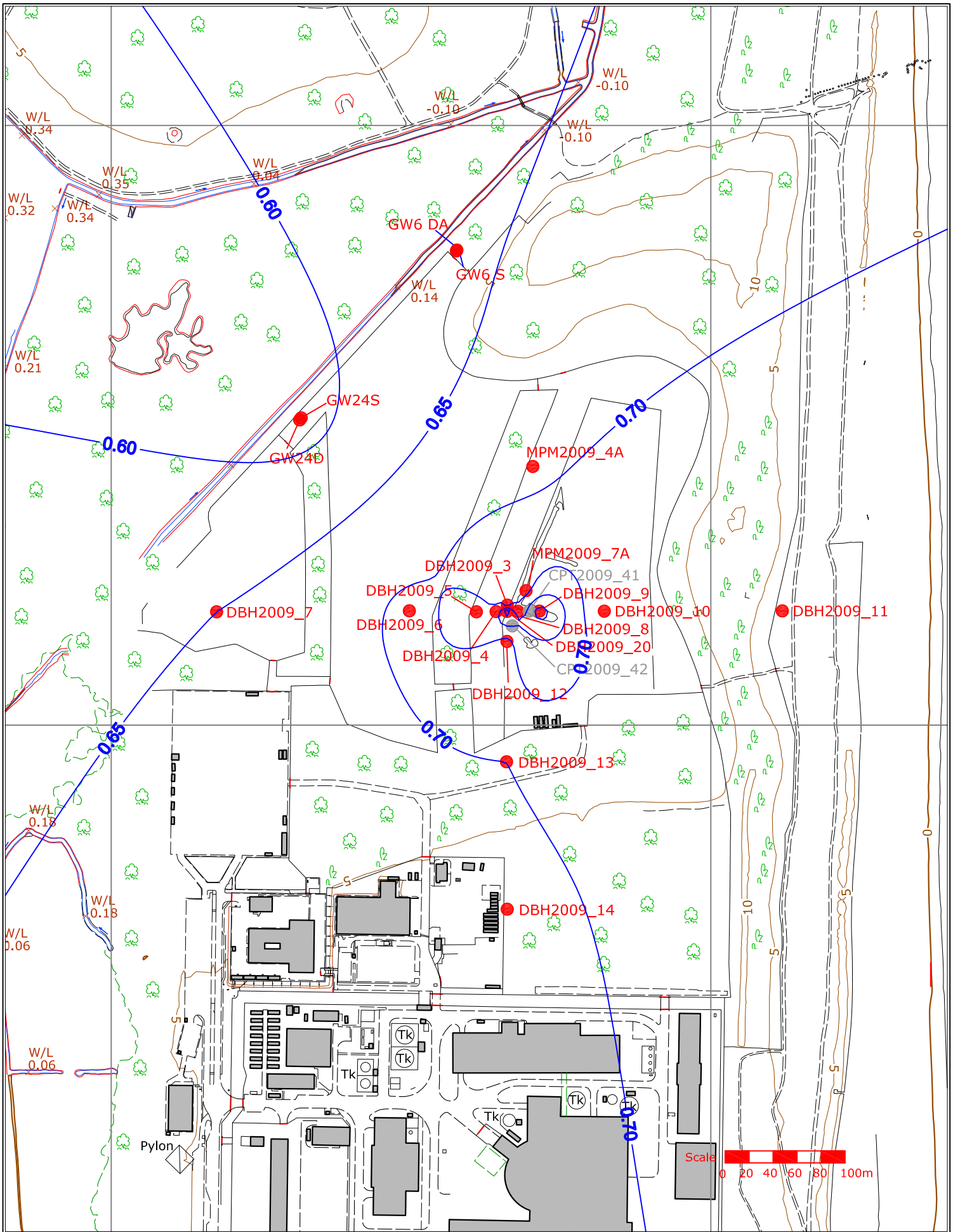


Figure 42: Theis Recovery Analysis – GW24D

Figure 43: Distance Drawdown Plot





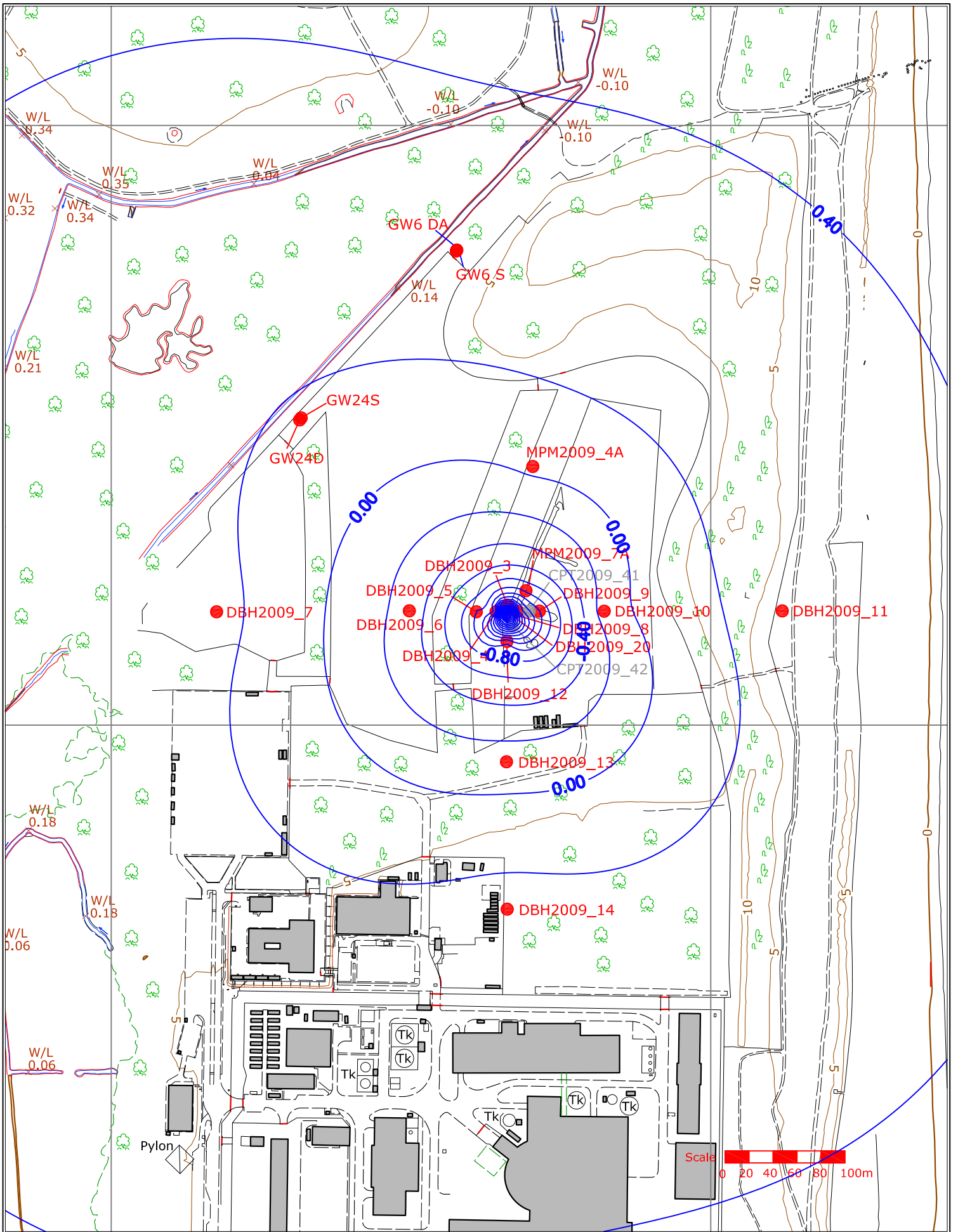
- Notes:
1. Water level contours shown in mOD
 2. Based on readings taken at 00:02 03/02/2011

Project: Sizewell Pumping Test

Title: Water Level Contours - Prior to Test

Drawing No: Figure 44 | Rev: 0 | By: QR

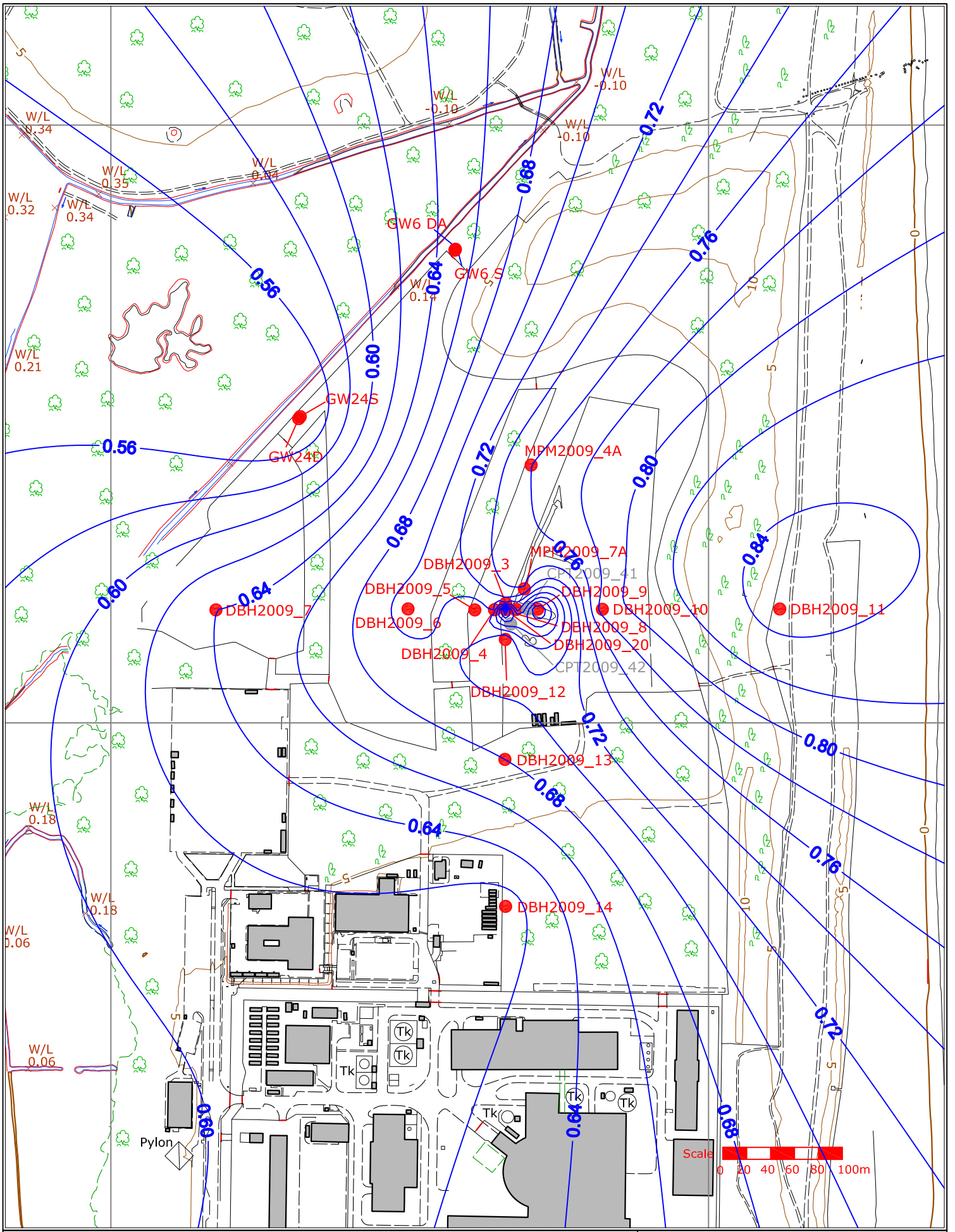
Scale: 1:4000@A4 | Date: 05/04/11 | Chk: GH



- Notes:
1. Water level contours shown in mOD
 2. Based on readings taken at 05:45 13/02/2011

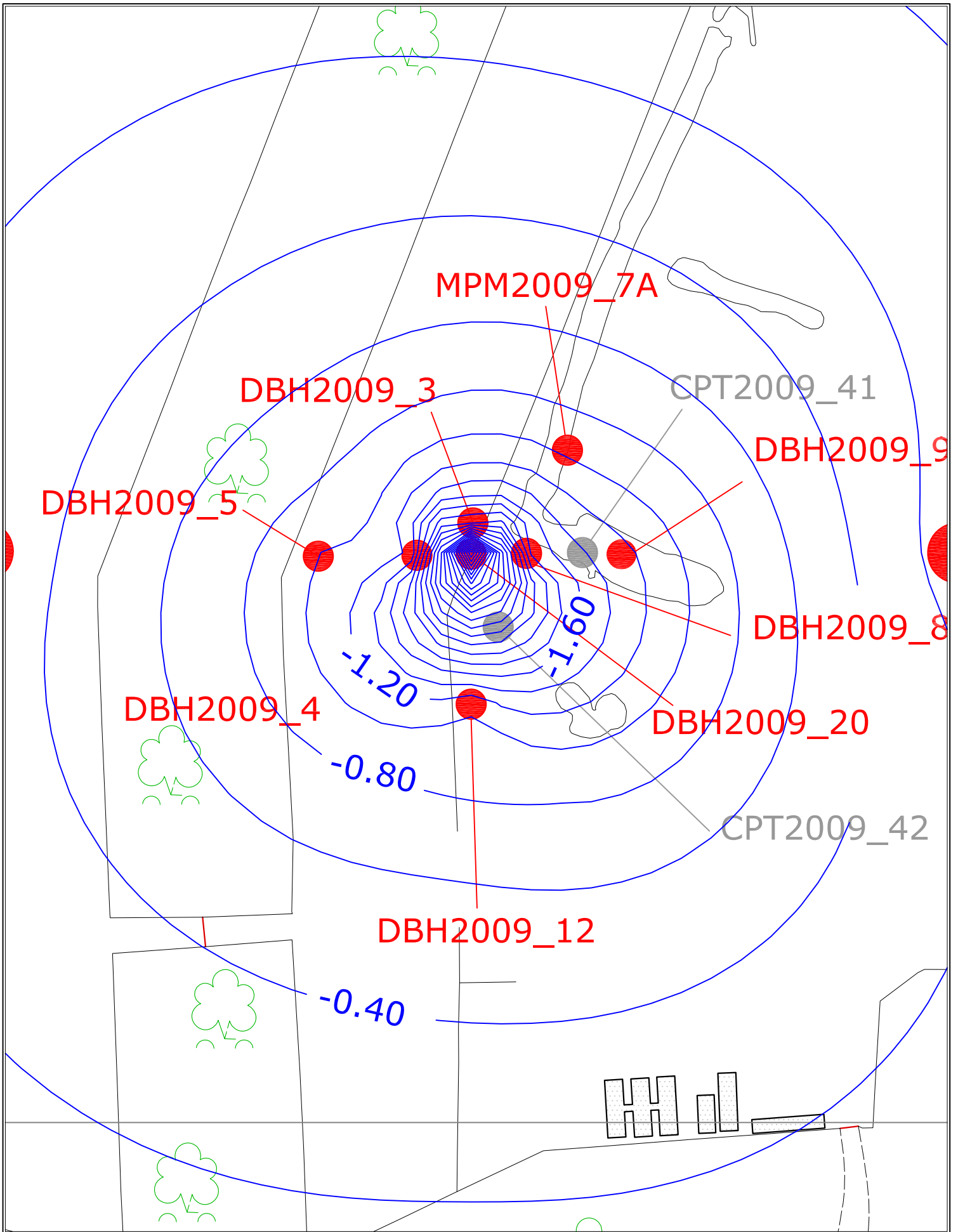
Project: Sizewell Pumping Test		
Title: Water Level Contours - During Test		
Drawing No: Figure 45	Rev: 0	By: QR
Scale: 1:4000@A4	Date: 04/04/11	Chk: GH





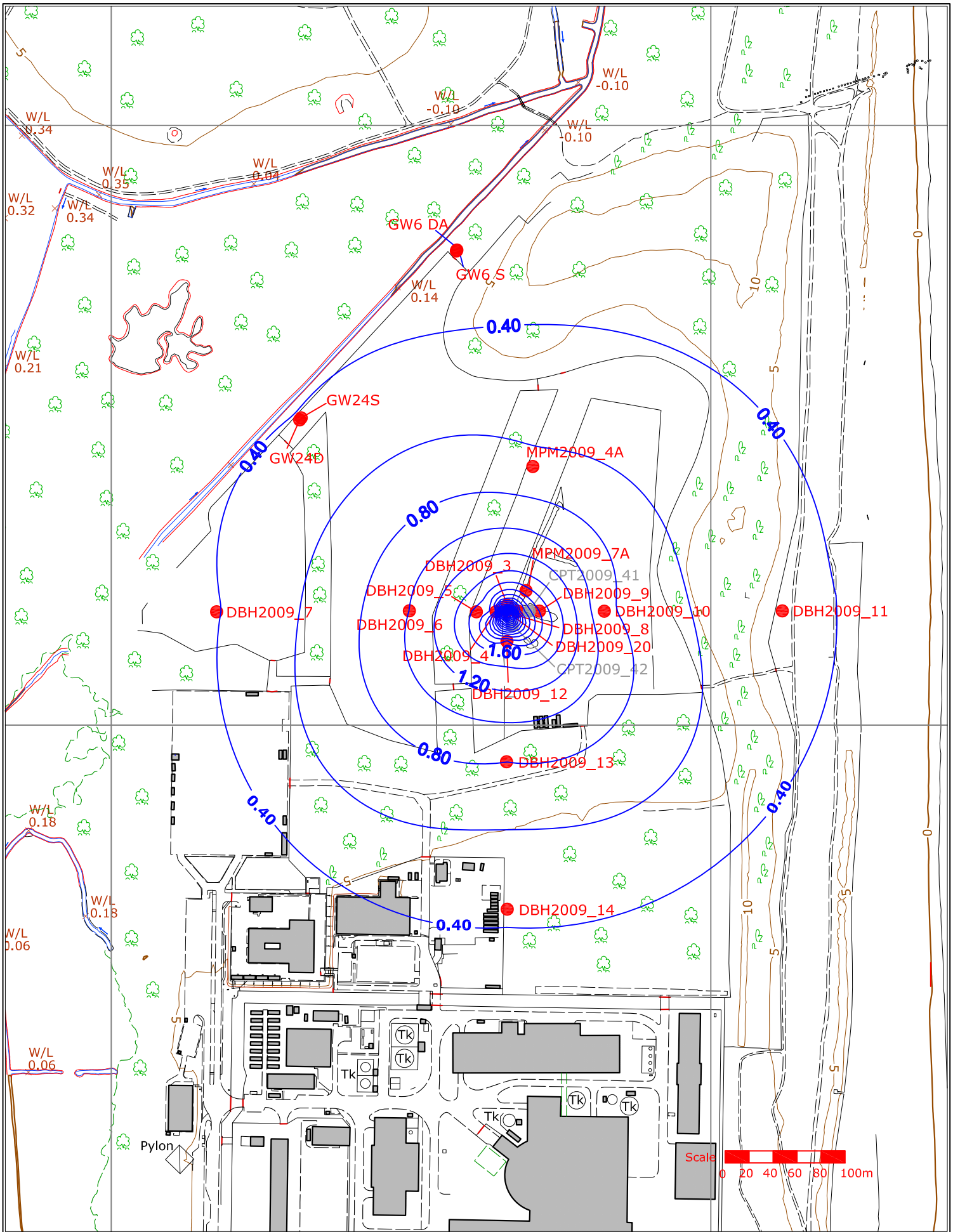
- Notes:
1. Water level contours shown in mOD
 2. Based on readings taken at 11:00 17/02/2011

Project: Sizewell Pumping Test		
Title: Water Level Contours - After Test		
Drawing No: Figure 46	Rev: 0	By: QR
Scale: 1:4000@A4	Date: 04/04/11	Chk: GH



- Notes:
1. Water level contours shown in mOD
 2. Based on readings taken at 05:45 13/02/2011

Project: Sizewell Pumping Test		
Title: Water Level Contours - During Test		
Drawing No: Figure 47	Rev: 0	By: QR
Scale: 1:800@A4	Date: 04/04/11	Chk: GH



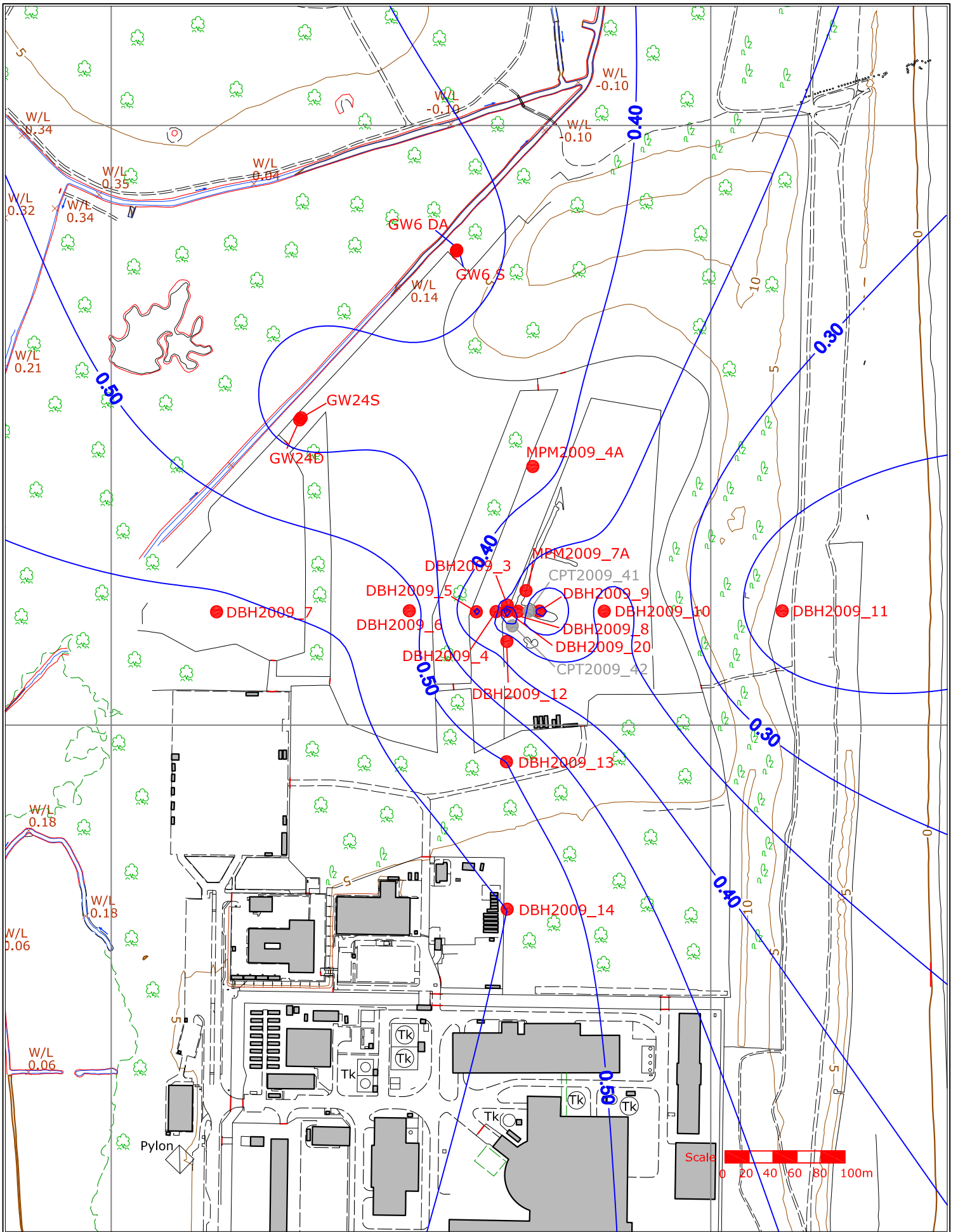
- Notes:
1. Water level contours shown in mOD
 2. Water level drawdown calculated based on readings taken at 00:02 03/02/2011 and at 05:45 13/02/2011

Project: Sizewell Pumping Test

Title: Drawdown Contours - During Test

Drawing No: Figure 48 Rev: 0 By: QR

Scale: 1:4000@A4 Date: 04/04/11 Chk: GH



- Notes:
1. Water level contours shown in mOD
 2. Based on readings taken at 19:15 21/02/2011

Project: Sizewell Pumping Test

Title: Water Level Contours - Low Tide

Drawing No: Figure 49 | Rev: 0 | By: QR

Scale: 1:4000@A4 | Date: 07/04/11 | Chk: GH

Figure 50: Temperature

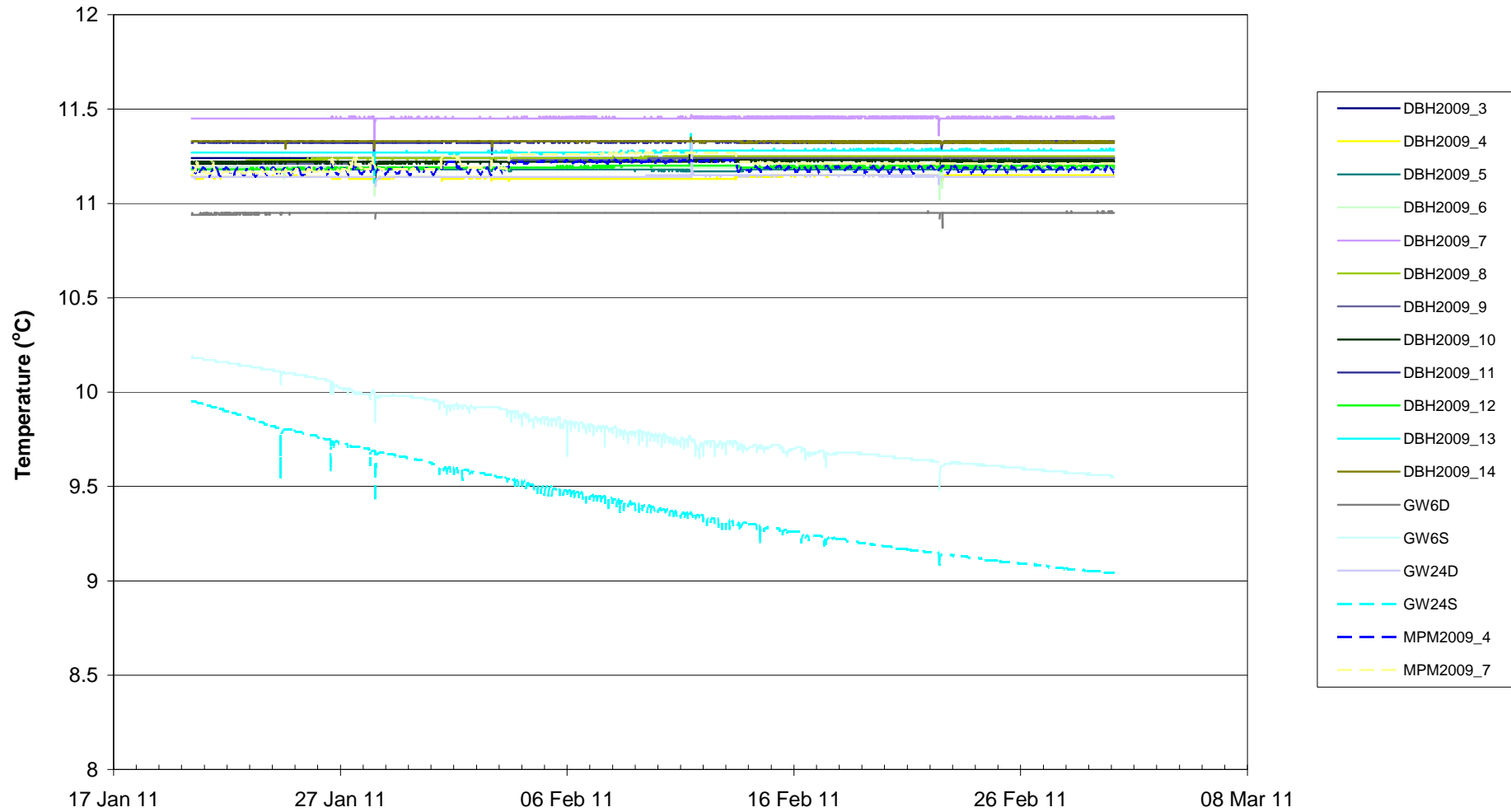


Figure 51: Electrical Conductivity

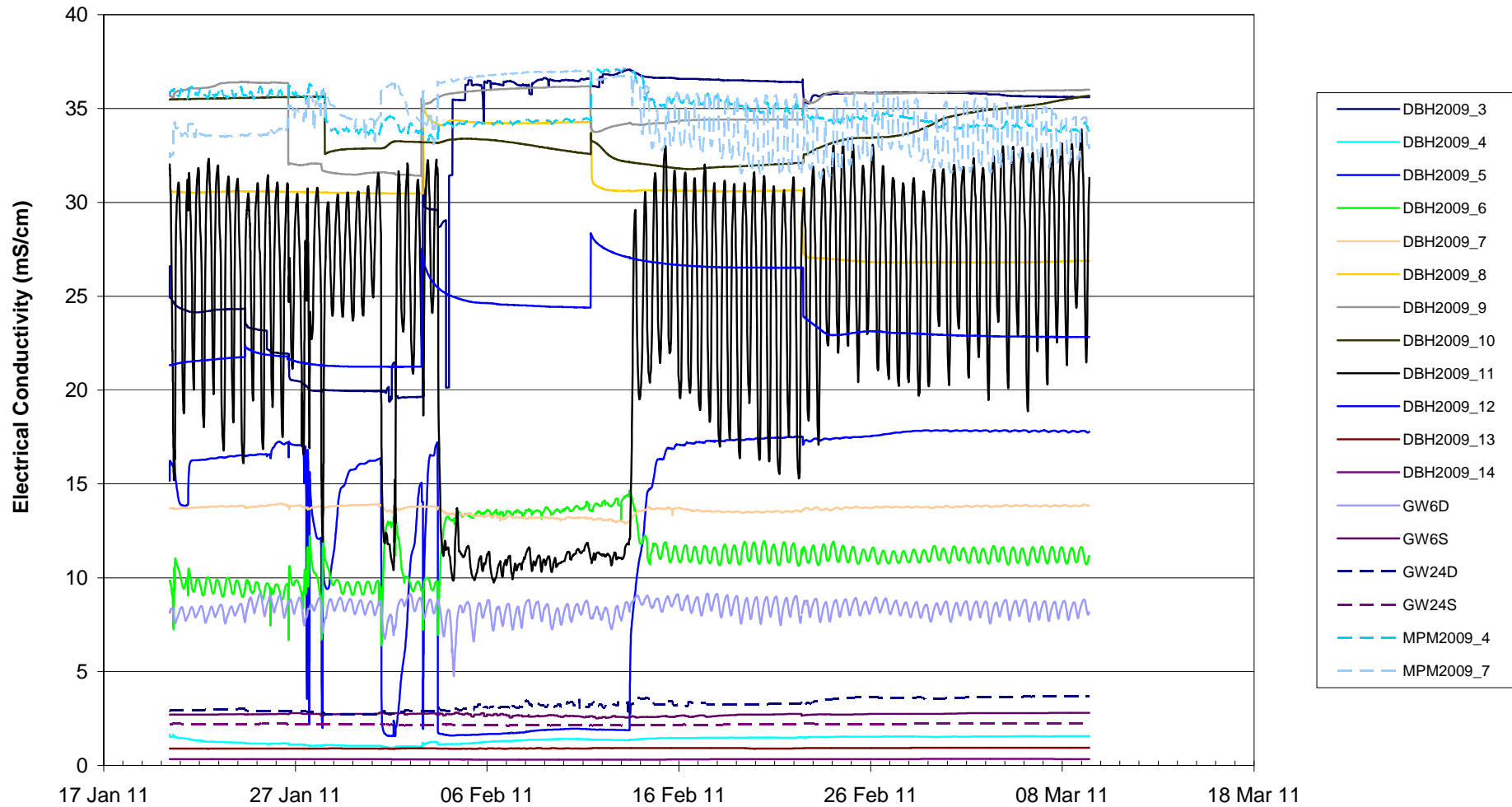
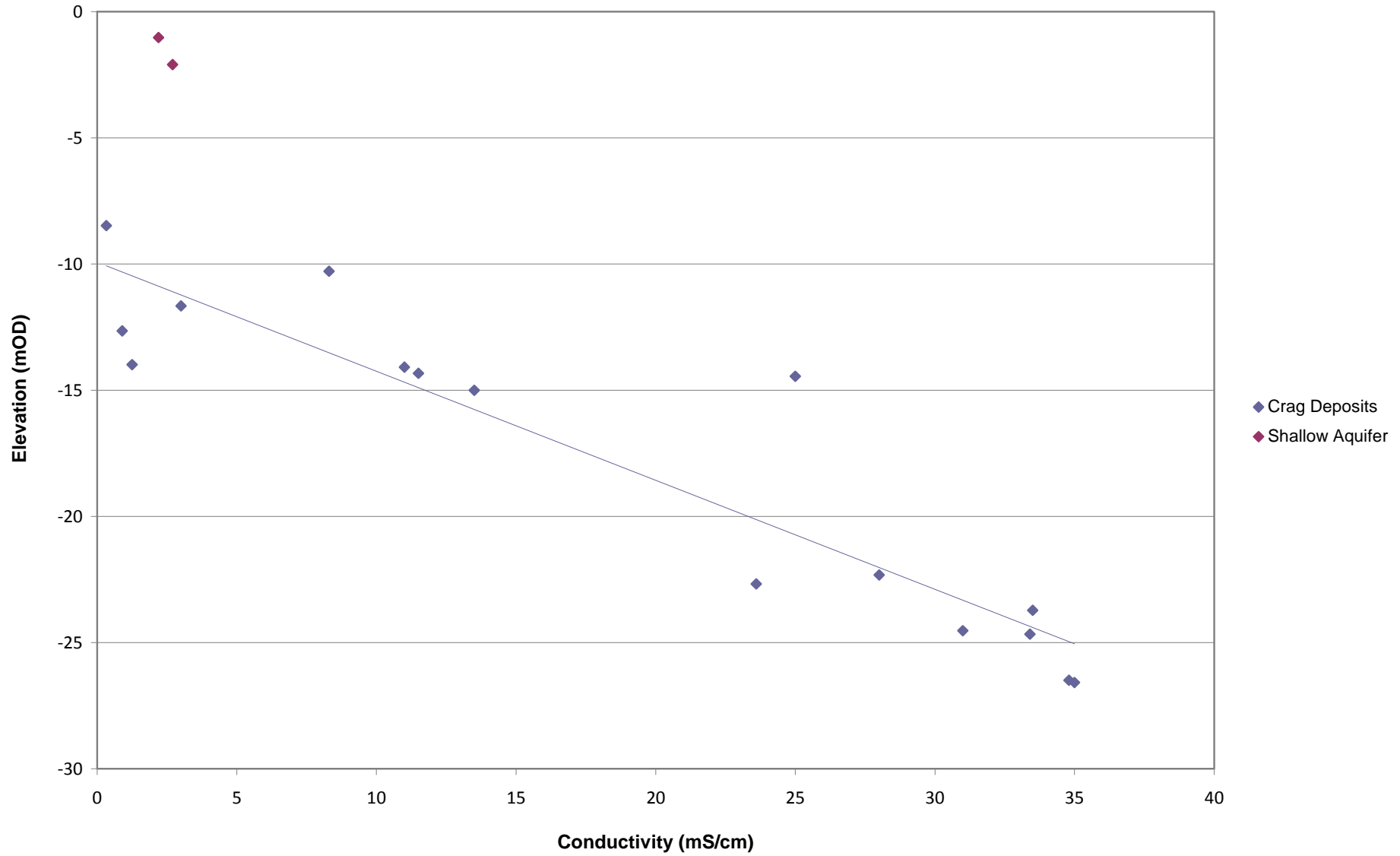


Figure 52: Electrical Conductivity vs. Elevation



NOT PROTECTIVELY MARKED

Appendix F – Ground Investigation Factual Reports

Structural Soils 2009

NOT PROTECTIVELY MARKED

BRITISH ENERGY LIMITED

FACTUAL REPORT
on
SUPPLEMENTARY GROUND
INVESTIGATION
at
PROPOSED NUCLEAR
DEVELOPMENT AT SIZEWELL 'C'

MARCH 2009
REPORT NO 722201

ROYAL HASKONING UK LIMITED
Burns House
Harlands Road
Haywards Heath
West Sussex
RH16 1PG

Tel: 01733 336163
Fax: 01733 333348
Email: info@haywards-heath.royalhaskoning.com
www.royalhaskoning.com

STRUCTURAL SOILS LIMITED
The Old School
Stillhouse Lane
Bedminster
BRISTOL
BS3 4EB

Tel: 0117 947 1000
Fax: 0117 947 1004
Email: admin@soils.co.uk
www.soils.co.uk

DOCUMENT ISSUE RECORD

Contract No: 722201

Client: British Energy Limited

Contract: Proposed Nuclear Development at Sizewell 'C'

Document: Factual Ground Investigation Report

Prepared by:  J Wild

Approved by:  A R Handcock

Date: 27th March 2009

REVISION RECORD

Revision	Date	Description	Prepared by

STRUCTURAL SOILS LIMITED
The Old School
Stillhouse Lane
Bedminster
BRISTOL
BS3 4EB

Tel: 0117 947 1000
Fax: 0117 947 1004

Table of Contents

1	INTRODUCTION	4
2	SITE DESCRIPTION	5
	2.1 Location and Topography	
	2.2 Geology	
	2.3 Hydrogeology	
3	FIELDWORK	7
4	LABORATORY TESTING	9
5	REFERENCES	12
	APPENDIX A	i
	(i) Site Location Plan	
	(ii) Exploratory Hole Location Plan	
	APPENDIX B	ii
	(i) Borehole Logs	
	(ii) Summary of SPT tests	
	(iii) Borehole Photographs	
	APPENDIX C	iii
	(i) Laboratory Test Results	
	APPENDIX D	iv
	(i) Environmental Test Results	
	APPENDIX E	v
	(i) Monitoring Results	
	APPENDIX F	vi
	(ii) Permeability Test Results	
	(iii) Soakaway Test Results	



1 INTRODUCTION

This investigation was carried out on the instructions of Royal Haskoning UK Limited and on behalf of British Energy Limited. The purpose of the work was to investigate ground conditions at the proposed nuclear development at Sizewell ‘C’, and provide high quality samples of the alluvial clay and peat deposits for detailed logging, geotechnical and chemical (environmental) testing. The data obtained will be used to inform the further assessment of the alluvial materials for heathland creation and to provide additional geotechnical data to facilitate the construction and design of deep excavations and other earthworks.

This report details the work carried out both on site and in the geotechnical and chemical testing laboratories; it contains the exploratory hole logs and laboratory testing results.

The ground investigation has been carried out using cable percussive techniques of soft ground boring in general accordance with the recommendations of BS5930: 1999 *Code of Practice for Site Investigations* and with BS10175 *Investigation of Potentially Contaminated Sites: Code of Practice* (2001). Whilst every attempt is made to record full details of the strata encountered in the exploratory holes, techniques of hole formation and sampling will inevitably lead to disturbance, mixing or loss of material in some soils and rocks.

A comprehensive desk study, other than an inspection of geological maps, has not been requested or undertaken as part of this investigation.

All information given in this report is based on the ground conditions encountered during the site work, and on the results of laboratory and field tests performed during the investigation. However, there may be conditions at the site which have not been taken into account, such as unpredictable soil strata, contaminant concentrations, and water conditions between or below exploratory holes. It should be noted that groundwater levels usually vary due to seasonal and/or other effects and may at times differ to those measured during the investigation. This report does not consider ecological impacts (eg bats) or botanical risks (eg Japanese knotweed). It is recommended that these are considered as part of the assessment of development constraints for the site.

This report was prepared by Structural Soils Ltd for the sole and exclusive use of British Energy Limited in response to particular instructions. Any other parties using the information contained in this report do so at their own risk and any duty of care to those parties is excluded.



2 SITE DESCRIPTION

2.1 Location and Topography

The site is located to the north of Sizewell ‘B’ power station, approximately 1.5km to the northeast of the town centre of Leiston, Suffolk. The British National Grid Reference of the site is TM 473 641. The site is an irregular shape, approximately 700m north to south and 500m east to west in size at its maximum points (see exploratory hole location plan in Appendix A).

The site is generally flat and low-lying, with a covering of grass. Exceptions to this are in the south, where the ground is undulating and slopes up at an approximate angle of 5 degrees towards the boundary with the existing Sizewell ‘B’ power station. This rises to an elevated platform adjacent to the boundary fence in the south west. A 5m or so high bund has been formed along the eastern flanks, parallel to the existing coastal fringe sand dunes. The southern area and eastern bund have been planted with fir trees and gorse. The area to the north of the site is characterised by native trees and bushes.

Two small, rectangular shaped, wooded areas running north to south are located within the main grassed area of the site. The wooded area to the east and adjacent grassed area was found to be waterlogged, indicating poor drainage and making access to this part of the site difficult.

The site is bounded to the south by the existing Sizewell ‘B’ power station, to the east by the coastal fringes of the North Sea, to the north by the Minsmere and Walberswick Special Area of Conservation, Special Protection Area, SSSI and a Ramsar Site and to the west by the Sizewell Marshes SSSI.

The nearest surface water feature is a drainage ditch running parallel and adjacent to the western boundary of the site.

2.2 Geology

The Geological Survey Map of Great Britain (Saxmundham, sheet 191, scale 1:50,000) shows the site to be underlain by Made Ground overlying drift deposits of alluvium. In the northeast of the site this is shown as comprising marine deposits of mud with a tidal flat depositional environment and in the southwest as peat. These materials overlie the Crag Group of the Quaternary described as fine-grained buff to brown, locally shelly, micaceous sands.

2.3 Hydrogeology

The Environment Agency (EA) groundwater vulnerability maps (East Suffolk, sheet 33, scale 1:100,000) shows the site location as overlying a Minor aquifer (variably permeable).



The soils directly beneath the site have been classed as having intermediate leaching potential (I2), these being soils that can possibly transmit non-adsorbed, or weakly adsorbed pollutants and liquid discharges, but are unlikely to transmit adsorbed pollutants.



3 FIELDWORK

46 no. cable percussion boreholes (BH01 to BH40), were completed between 6 and 29 October 2008 at locations shown on the Exploratory Hole Location Plan in Appendix A. The scope of investigation and choice of investigation equipment was decided by Royal Haskoning UK Limited. The positions were selected by and set out by Royal Haskoning UK Limited.

The exploratory holes were logged by an engineer in general accordance with the recommendations of BS5930: 1999 including amendment 1 (2007). Detailed descriptions, together with relevant comments, are given in the logs included in Appendix B. Sampling and in-situ testing details were specified by Royal Haskoning UK Limited. Geotechnical samples were taken and returned to the laboratory for classification and potential testing. Groundwater samples were taken for each successive groundwater strike.

The boreholes were drilled using a cable tool percussion drilling rig and were between 150mm and 200mm diameter. The depths of the boreholes were up to 17.00m. Standard Penetration Tests were carried out at regular intervals in accordance with BS1377: Part 9: 1990: 3.3. Test results are given in detail in tabular format on the Summary of Standard Penetration Tests in Appendix B, and also summarised on the borehole logs. Where a Standard Penetration Test exceeded 50 blows, then the blow count for each seating and test drive is shown along with the penetration (mm) achieved for this test. No extrapolation of the test results has been undertaken.

Where the alluvium was encountered, continuous undisturbed sampling was undertaken in each of the boreholes. Various sampling methods were trialled on site to give the best sample quality and recovery in the range of deposits present.

The most effective method was using a drive sampler to drive a 100mm diameter by 450mm long sample tube into the base of the borehole. The tube was driven by a percussive hammer and on completion of driving was pulled from the borehole containing an undisturbed sample. This method was undertaken in 22 of the 26 boreholes where alluvium was encountered. The undisturbed U100 samples were extruded, photographed and logged by an Engineer on site in general accordance with the recommendations of BS5930. The photographs are presented in Appendix B.

An alternative method for continuous undisturbed sampling of the alluvium was undertaken along the western boundary of the site in four of the boreholes (BH7, BH36, BH39 and BH40). A thin-walled aluminium piston sampling tube of 100mm diameter by 900mm length was fitted to a shelby tube drive head and lowered on drill rods to the base of the borehole. A hydraulic



ram was attached to the top of the casing and the tube was driven by hydraulic pressure into the alluvium. The advancement of penetration was able to be measured from the surface, giving greater control of the sampling system. The sample tube remained in the ground for 10 minutes after penetration, it was then rotated carefully for two revolutions and withdrawn from the borehole.

On completion combined water/gas monitoring standpipes were installed within selected boreholes, the design was decided by Royal Haskoning UK Limited. The 50mm diameter standpipes were installed in four boreholes and 19mm standpipes in 16 boreholes. The remaining boreholes were backfilled with bentonite cement pellets.

Following the installation groundwater levels and gas monitoring was undertaken on a daily basis throughout the period of the site works. An infrared gas meter was used to measure concentrations of carbon dioxide (CO₂), methane (CH₄) and oxygen (O₂) in percentage by volume, whilst hydrogen sulphide (H₂S) and carbon monoxide (CO) were recorded in parts per million. Initial and steady state concentrations were recorded. A separate flow meter was used to measure borehole flow rates (initial and steady state) in litres per hour (l/hr). In addition the atmospheric pressure before and during monitoring, together with the weather conditions were recorded. All measurements taken are given in Appendix E.

Twenty one falling head permeability tests were undertaken in selected monitoring wells in accordance with BS5930: part 4 (1999) between 24 and 26 November 2008. The test results are present in tabular and graphical format in Appendix F.

Groundwater was not encountered in BH30 and BH34, hence soakaway tests were undertaken in these boreholes in general accordance to recommended practice given in BRE Digest 365. Due to time or other constraints, three fillings of each position were not undertaken. The results are contained in Appendix F.



4 LABORATORY TESTING

Samples for potential geotechnical testing were returned to the company’s laboratory in Bristol and those for potential contamination testing were sent to UKAS accredited chemical testing laboratories. Geotechnical and contamination tests were scheduled by Royal Haskoning UK Limited.

The following laboratory tests were carried out on samples unless indicated otherwise generally in accordance with BS1377: 1990, *Methods of test for soils for civil engineering purposes*, parts 1 to 8. Where non-standard procedures have been undertaken, this will be recorded on the report sheet. The results are reported in tabular and/or graphical form included as Appendix C of this report.

4.1 Moisture Content

There were 100 moisture content tests undertaken using the oven-drying method in accordance with BS1377: Part 2: 1990. The results are tabulated below the Plasticity Chart (in accordance with BS5930: 1999) and the Summary of Classification Tests.

4.2 Liquid Limit, Plastic Limit and Plasticity Index

There were 98 liquid and plastic limit tests performed in accordance with BS1377: Part 2: 1990. The results are plotted on the Plasticity Chart and are tabulated below the chart (in accordance with BS5930: 1999) and in the Summary of Classification Tests.

4.3 Particle Size Distribution

There were 39 particle size distribution tests undertaken by sieving in accordance with BS1377: Part 2: 1990. The results are represented graphically as particle size distribution curves and in tabular format.

4.4 One - Dimensional Consolidation Test

There were 25 one-dimensional consolidation tests undertaken in accordance with BS1377: Part 5: 1990. There were 5 loading and 2 unloading stages undertaken on each sample with pressures of between 25kPa and 800kPa.

The results are represented as voids ratio e/\log pressure together with values of the coefficients of compressibility (m_v) and consolidation (c_v).



4.5 Unconsolidated Undrained Triaxial Compressive Shear Strength Tests (without the measurement of pore pressure)

There were 20 single stage unconsolidated undrained triaxial compression tests without the measurement of pore pressure undertaken in accordance with BS1377: Part 7: 1990. Each test was carried out on a single specimen nominally 100mm in diameter and 200mm in length. The confining pressures ranged between 25kPa and 200kPa.

4.6 Hand Vane Tests

The undrained shear strengths of 28 undisturbed samples were measured directly using a hand vane. The results are tabulated in the Summary of Laboratory Hand Vane Test Results.

4.7 Chemical Analyses

There were 23 soil samples tested to determine their pH values and aqueous extract sulphate contents in accordance with BS1377: Part 3:1990 clause 5.

There were 69 organic determinations undertaken in accordance with BS1377: Part 3: 1990.

There were 37 loss of ignition tests undertaken in accordance with BS1377: Part 3: 1990.4.23.

4.8 Environmental Testing

There were 27 soil samples analysed in accordance with UKAS/MCERTS standards for Waste Characterisation (Total Soil Analysis) Testing, which included the following determinands; arsenic, cadmium, chromium, lead, mercury, selenium, copper, nickel, zinc, vanadium, boron, volatile organic compounds (VOC), semi-volatile organic compounds excluding PAH, polycyclic aromatic hydrocarbons (PAH), total petroleum hydrocarbons (TPH) (aromatic/aliphatic split), BTEX compounds (speciated), PCB, asbestos screen, phenols, pesticides (combined organochlorine and organophosphorus), cyanide, sulphur, pH, fraction organic carbon, loss on ignition.

There were 27 samples also analysed for Waste Characterisation (Total Leachate) Testing, which included the following determinands; arsenic, cadmium, chromium, lead, mercury, selenium, copper, nickel, zinc, vanadium, boron, selenium, volatile organic compounds (VOC), semi-volatile organic compounds excluding PAH, polycyclic aromatic hydrocarbons (PAH), total petroleum hydrocarbons (TPH) (aromatic/aliphatic split), BTEX compounds (speciated), phenols, pesticides (combined organochlorine and organophosphorus), cyanide, sulphate, pH.

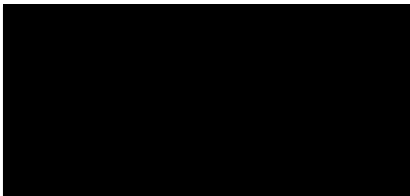


There were 33 samples also analysed for Peat Characterisation Test Suite A, which included the following determinands; available phosphorus, available potassium, available magnesium, calcium (total), sodium (total), sulphur (total), iron (total), magnesium (total), chloride (total), sulphate, pH, loss on ignition, conductivity.

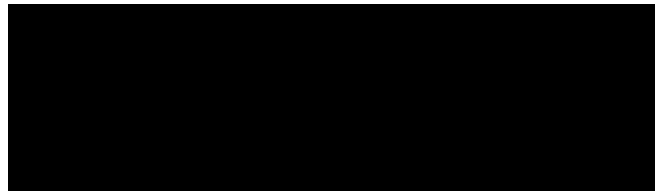
There were 18 samples also analysed for Peat Characterisation Test Suite B, which included the following determinands; arsenic (total), cadmium (total), chromium (total), lead (total), mercury (total), copper (total), nickel (total), zinc (total), calcium carbonate, pyritic iron.

There were 17 samples also analysed for electrical conductivity, chloride, sodium, pH, loss on ignition.

STRUCTURAL SOILS LIMITED



J Wild BSc (Hons)



A R Handcock MA CEng MICE CGeol FGS

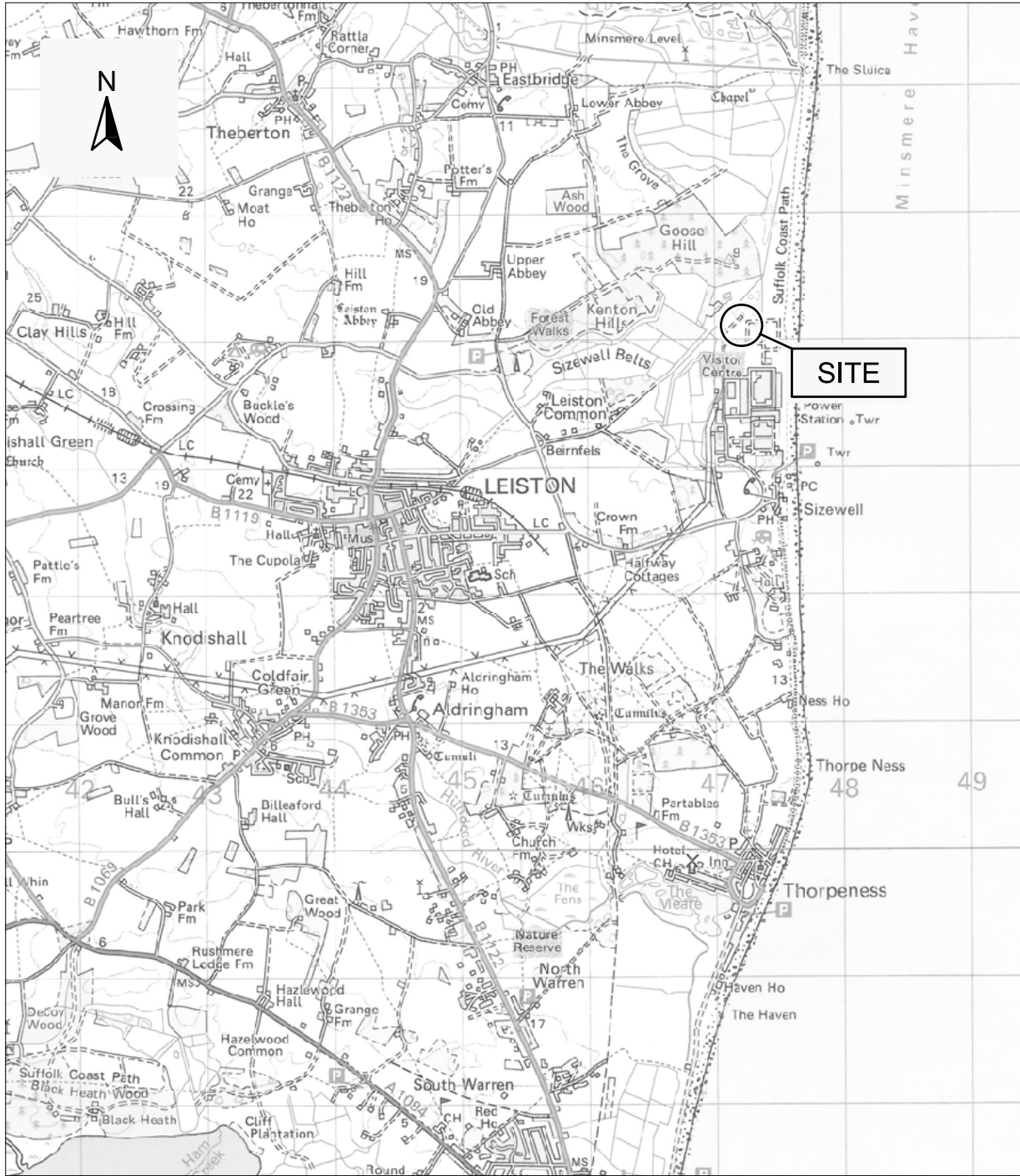


5 REFERENCES

- 5.1** BS 5930:1999 *Code of Practice for Site Investigations: amendment 1* (2007).
- 5.2** BS 10175: 2001 *Investigation of potentially contaminated sites: Code of practice*.
- 5.3** Geological Survey of Great Britain, North London, sheet 270 scale 1:50,000.
- 5.4** NRA Groundwater Vulnerability Map East Suffolk sheet 33 scale 1:100,000
- 5.5** BS 1377:1990 *Methods of Test for Soils for Civil Engineering Purposes*.
- 5.6** BS 5930:1999 *Code of Practice for Site Investigations*.

APPENDIX A

- (i) Site Location Plan
- (ii) Exploratory Hole Location Plan



Reproduced from the Ordnance Survey's 1:50,000 map of 1991 with the permission of the Controller of Her Majesty's Stationery Office. Crown copyright reserved.
License No.AL 100006061, Structural Soils Ltd.

STRUCTURAL SOILS LIMITED



The Old School
Still House Lane
Bedminster
Bristol BS3 4EB

Tel: 0117 947 1000
Fax: 0117 947 1004
admin@soils.co.uk
www.soils.co.uk

CLIENT

British Energy Ltd.

PROJECT

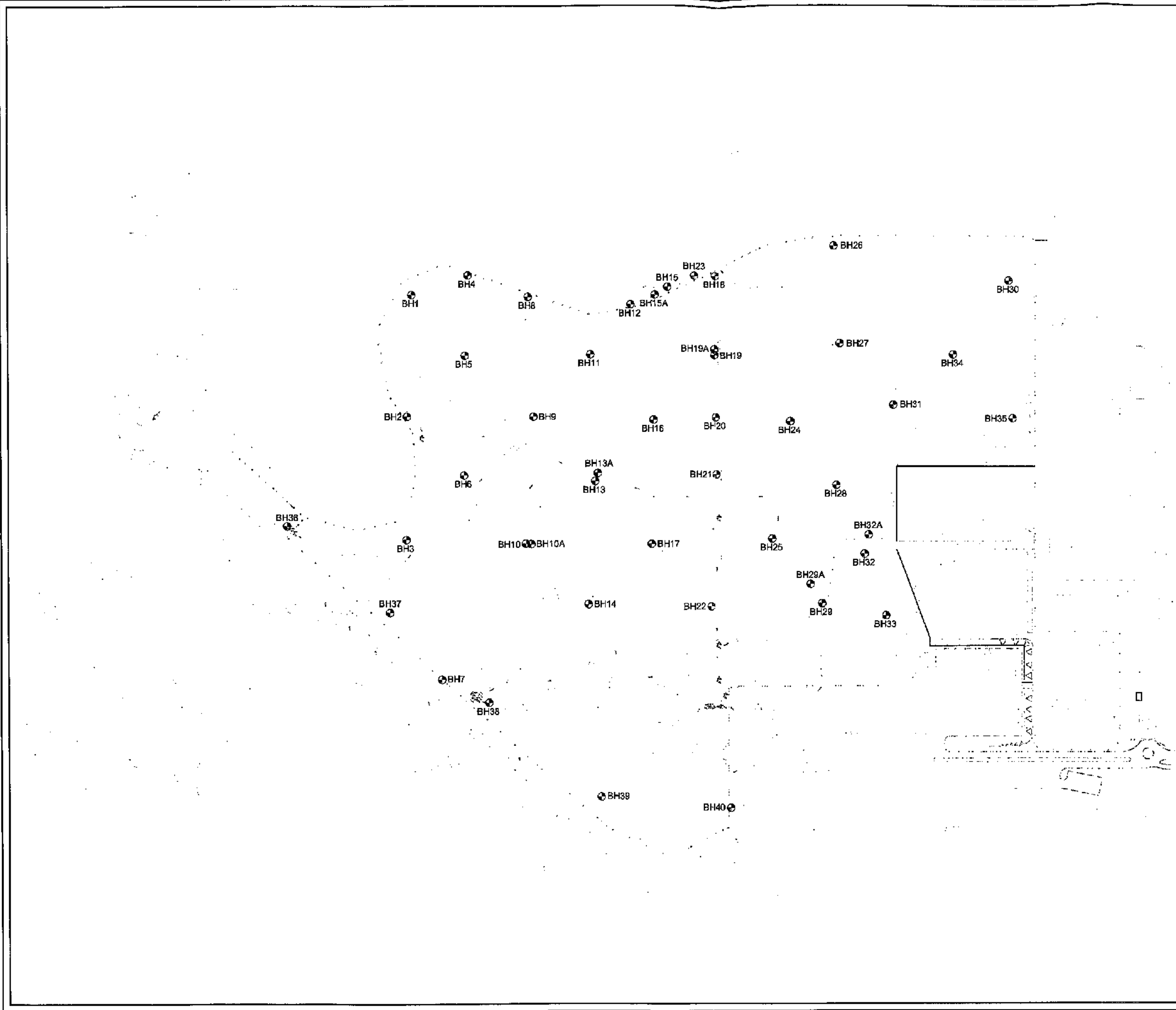
Sizewell 'C' - Supplementary Ground Investigation

TITLE

SITE LOCATION MAP


00	17.02.2009	-	CPM	JW	-
REV.	DATE	DESCRIPTION	BY	CHD.	APR.

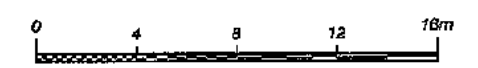
DIMENSION			SCALE			ORIGIN SIZE			GRID REFERENCE	JOB NO.	DRAWING STATUS	FIGURE
m			1:50 000			A4			TM 473 641	722201	-	Figure 1



LEGEND
 BH ● Borehole Location



REV.	DATE	DESCRIPTION	BY	CHKD.	APR.
00	17.02.2009		CPM	JW	-
DIMENSION		SCALE	ORIGIN SET		
m		1:300	A3		
STRUCTURAL SOILS LIMITED					
		The Old School Stile House Lane Bedminster Bristol BS3 4EB		Tel: 0117 947 1000 Fax: 0117 947 1004 admin@soils.co.uk www.soils.co.uk	
CLIENT					
British Energy Ltd.					
PROJECT					
Sizewell 'C' - Supplementary Ground Investigation					
TITLE					
EXPLORATORY HOLE LOCATION PLAN					
DRAWING NO		FIGURE			
722201		Figure 2			
DRAWING STATUS					REV
-					00



APPENDIX B

- (i) Borehole Logs
- (ii) Summary of SPT tests
- (iii) Borehole Photographs



STRUCTURAL SOILS

KEY TO EXPLORATORY HOLE LOGS

SAMPLING

B	Bulk disturbed sample.
BLK	Block sample.
C	Core sample.
CBR	CBR mould sample.
CS	Core sample taken from rotary core for laboratory testing.
D	Small disturbed sample.
J	Glass jar sample.
LB	Large bulk disturbed sample (for earthworks testing).
P	Undisturbed pushed piston sample - 102 mm diameter, 1000 mm long.
TW	Thin walled push in sample.
U	Undisturbed driven tube sample - 102 mm diameter, 450 mm long. Number of blows indicated.
VL	Vial sample.
W	Water sample.
U+, P+	No recovery in undisturbed sample.





IN-SITU TESTING

SPT	Standard Penetration Test using split spoon sampler. (SPT _(NR) indicates 'No Sample Recovery').
SPT _(c)	Standard Penetration Test using a solid 60 degree cone.
	The N Value is the number of blows required to complete a test drive of 300 mm after a seating drive of 150 mm or 25 blows. Where the full test drive is not completed, a linearly extrapolated N value is given and suffixed by a '*' character.
	'NP' denotes No Penetration in the Test Drive.
HP	Hand Penetrometer Test. Value given as shear strength cu, in kPa.
V _(cu)	Field Vane Test. Peak value given as shear strength cu, in kPa.
V _(cr)	Field Vane Test. Residual value given as shear strength cr, in kPa.
G	Gas Test
PID	Photo Ionisation Detector Results, in ppm.











DRILLING RECORDS

W	Water flush returns.	Core	Hole progressed by rotary coring techniques.
TCR	Total Core Recovery, %.	O/H	Hole progressed by rotary percussive drilling techniques.
SCR	Solid Core Recovery, %.	W/S	Hole progressed by dynamic drilling techniques.
RQD	Rock Quality Designation, %.		
If	Fracture spacing, mm. Where variable, the minimum, average and maximum spacing may be quoted.		
	'NI' denotes non intact core.		
	'NA' denotes not applicable.		

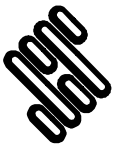
WATER COLUMN SYMBOLS

	First water strike, second water strike etc.
	Standing water level following first strike, standing water level following second strike etc.
	Seepage.
	Standing water level recorded at documented date.

INSTRUMENTATION SYMBOLS

	Arisings		Gravel filter		Sand filter		Bentonite seal
	Bentonite cement grout		Concrete		Solid pipe		Slotted pipe
	Stopcock cover		Upstand cover				

- NOTES:**
- All soil and rock descriptions and legends in general accordance with BS5930:1999.
 - All lengths used to determine rock core mechanical properties taken along the centre line of the core. Obvious induced fractures have been ignored.
 - The assessment of solid core is based on lengths that show a full diameter and not necessarily a full circumference.
 - Material types divided by a broken line (---) indicates an unclear boundary.



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH1	
Contract Ref: 722201		Start: 09.10.08 End: 09.10.08	Ground Level (m AOD): 2.21	National Grid Co-ordinate: E:647469.0 N:264278.4	
				Sheet: 1 of 2	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend				
Depth	No	Type	Results										
0.20	1	D				MADE GROUND: Grass over dense orangish brown fine to medium SAND with rare fine gravel sized shell fragments.							
0.50-1.00	1	B								(1.50)			
1.20-1.65	1	SPT(c)	N=33										
1.20	2	D								0.71	1.50		
1.70	3	D						POSSIBLE MADE GROUND: Dense grey very sandy subrounded to rounded fine to coarse GRAVEL of flint and chert with fine gravel sized shell fragments.					
2.30	1	W						... ingress of water at 2.30m depth.					
2.50-3.00	2	B											
2.70	4	D									(2.80)		
3.20-3.65	2	SPT(c)	N=9					... becoming loose from 3.20m depth.					
3.70	5	D											
4.30-4.75	3	SPT	N=2					Soft slightly organic grey slightly gravelly silty CLAY. Gravel is subrounded fine to coarse flint.					
4.30-4.80	3	B											
4.30	6	D											
4.80-5.25	1	U ₍₁₀₀₎	15 blows 100% recovery					Soft slightly organic bluish grey silty CLAY with pseudo-fibrous plant remains (up to 2mm diameter).					(0.50)
5.15		HP	c _i =50					Firm brown pseudo-fibrous PEAT with plant remains and reed fragments (up to 5mm diameter).					
5.20	1	ES	Tubx3										
5.45	7	D											
5.50-5.95	2	U ₍₁₀₀₎	18 blows 100% recovery			Soft slightly organic bluish grey silty CLAY with pseudo-fibrous plant remains and reed fragments (up to 5mm diameter).							
6.15	8	D				Soft becoming very soft bluish grey silty CLAY with occasional pseudo-fibrous plant remains and reed fragments (up to 5mm diameter).			(1.00)				
6.20-6.65	3	U ₍₁₀₀₎	20 blows 100% recovery			... dampness of strata from 5.50m depth.							
6.50	2	ES	Tubx3			... organic content decreasing with depth from 5.60m depth.							
6.85	9	D				Spongy dark brown fibrous PEAT with reed fragments (up to 10mm diameter).							
6.90-7.33	4	U ₍₁₀₀₎	20 blows 100% recovery			Soft grey silty CLAY with occasional pseudo-fibrous plant remains and reed fragments increasing with depth.			(0.80)				
7.55	10	D											
7.60-8.05	5	U ₍₁₀₀₎	25 blows 100% recovery			Firm dark brown mottled red orange and black amorphous PEAT with occasional pseudo-fibrous plant remains (up to 2mm diameter).			(0.80)				
7.90		HP	c _i =60										
8.25	11	D				... fine gravel sized shell fragments from 7.75m-7.80m depth.							
8.30-8.75	6	U ₍₁₀₀₎	35 blows 0% recovery			... no recovery within U100 sample from 8.30m-8.75m depth.							
8.50	2	W				Very loose dark grey silty fine to medium SAND. (Norwich Crag)			(0.95)				

STRUCTURAL SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ_v8_02 | 01/04/09 - 16:27. Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
09/10/08		2.30	2.30	200	1.80					
09/10/08		8.80	5.00	200	5.25					

1. Inspection pit from 0.00-1.20m depth.
 2. Water added from 1.20m to 2.50m depth.
 3. Groundwater strikes at 2.30m and 8.50m depth.
 4. Backfilled with bentonite cement pellets on completion.

All dimensions in metres Scale: **1:50**

Method Used: Cable percussion	Plant Used: Dando 2000	Drilled By: RJ	Logged By: JWild	Checked By:
--------------------------------------	-------------------------------	-----------------------	-------------------------	-------------



STRUCTURAL SOILS

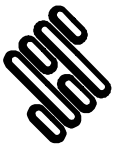
BOREHOLE LOG

Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH1	
Contract Ref: 722201		Start: 09.10.08 End: 09.10.08	Ground Level (m AOD): 2.21	National Grid Co-ordinate: E:647469.0 N:264278.4	
Sheet: 2 of 2					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
9.00-9.45	4	SPT	N=2			Very loose dark grey silty fine to medium SAND. (Norwich Crag) (<i>stratum text copied from layer at 8.50m depth from previous sheet</i>) Borehole terminated at 9.45 m depth.	-7.24	9.45	

STRUCTURAL_SOILS_GINT_LIBRARY_GLIBCABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:27.
Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
All dimensions in metres								Scale: 1:50		
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: RJ		Logged By: JWild		Checked By:		

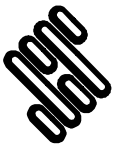


Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH2	
Contract Ref: 722201		Start: 08.10.08 End: 08.10.08	Ground Level (m AOD): 1.77	National Grid Co-ordinate: E:647369.3 N:264282.0	
Sheet: 1 of 1					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend		
Depth	No	Type	Results								
0.20	1	D				MADE GROUND: Grass over yellowish brown gravelly fine to medium SAND. Gravel is subangular to subrounded fine to coarse flint and rare subangular concrete.		(1.10)			
0.50-1.00	1	B				0.67	1.10				
1.20-1.65	1	SPT(c)	N=35					POSSIBLE MADE GROUND: Dense greyish brown very sandy subangular to subrounded fine to medium GRAVEL of flint and chert.			
1.20	2	D									
1.70	3	D									
2.40	1	W									
2.50-3.00	2	B									
2.70	4	D									
3.20-3.65	2	SPT(c)	N=1					... becoming very loose at 3.20m depth.		-1.83	3.60
3.70	5	D						Very loose grey gravelly fine to coarse SAND with fine gravel sized shell fragments. Gravel is subangular to subrounded fine to medium flint and chert.			(1.40)
4.50-5.00	3	B									
4.70	6	D					-3.23	5.00			
Borehole terminated at 5.00 m depth.											

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:27. Structural Soils Ltd, Head Office - Bristol, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
08/10/08		1.80	1.70	200	1.80					
08/10/08		2.40	2.40	200	1.10					
									1. Inspection pit from 0.00-1.20m depth. 2. Water added from 1.20m to 2.50m depth. 3. Groundwater strikes at 1.80m and 2.40m depth. 4. Backfilled with bentonite cement pellets.	
All dimensions in metres								Scale:	1:50	
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: RJ		Logged By: JWild		Checked By:



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH3	
Contract Ref: 722201		Start: 09.10.08 End: 10.10.08	Ground Level (m AOD): 1.84	National Grid Co-ordinate: E:647268.1 N:264282.5	
				Sheet: 1 of 2	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend			
Depth	No	Type	Results									
0.30	1	D				MADE GROUND: Grass over medium dense orangish brown silty gravelly fine to medium SAND. Gravel is subangular fine shell fragments. ... rootlets up to 2mm diameter to 0.50m depth.						
0.50-1.00	2	B										
1.00	3	D										
1.50-1.95	4	SPT	N=20							(3.70)		
2.00	6	D										
2.50-3.00	7	B										
2.95	5	D										
3.00	8	D										
3.50	1	W						... ingress of water at 3.50m depth.		-1.86	3.70	
3.50-3.95	9	SPT	N=1									
3.50-4.00	10	B						Very loose greyish brown slightly silty slightly sandy subrounded to rounded fine to coarse GRAVEL of flint and chert.				
4.00	11	D										
4.50-5.00	12	B								(2.30)		
5.00	13	D										
5.50-5.95	14	SPT(c)	N=6					... becoming loose from 5.50m depth.				
5.50	15	B					-4.16	6.00				
6.40-6.70	17	B				Loose greyish brown very gravelly fine to coarse SAND. Gravel is subangular to subrounded fine to medium flint and chert and rare subangular fine to medium shell fragments.	-4.56	6.40				
6.70-7.10	18	U ₍₁₀₀₎	20 blows			Stiff dark brown fibrous PEAT with plant remains and reed fragments up to 15mm diameter.		(0.80)				
6.90	1	ES	Tubx3									
7.00		HP	c _u =80				-5.36	7.20				
7.10	19	D										
7.10-7.60	20	U ₍₁₀₀₎	20 blows			Soft slightly organic light grey silty CLAY with pseudo-fibrous plant remains and reed fragments up to 5mm diameter.		7.60				
7.35		HP	c _u =30			... organic content decreasing with depth from 7.30m.	-5.76					
7.60	21	D										
7.60-8.10	22	U ₍₁₀₀₎	30 blows			Stiff friable dark brown mottled red orange and black amorphous PEAT with some pseudo-fibrous plant remains and reed fragments up to 5mm diameter.		(0.90)				
7.80		ES	Tubx3			... rare plant remains and reed fragments from 8.10m depth.						
7.80		HP	c _u =90									
8.10	23	D										
8.10-8.50	24	U ₍₁₀₀₎	30 blows				-6.66	8.50				
8.30	3	ES	Tubx3			Loose dark grey slightly silty fine to medium SAND.						
8.30		HP	c _u =80			(Norwich Crag)						
8.50	25	D										

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
10/10/08	09:00	6.00	6.00	200	3.50				1. Inspection pit dug from 0.00m to 1.20m depth. 2. Groundwater struck at 3.50m depth. 3. Backfilled with bentonite cement pellets on completion.	
								All dimensions in metres	Scale: 1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: SJ		Logged By: JWild		Checked By:		

STRUCTURAL SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ_v8_02 | 01/04/09 - 16:27. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

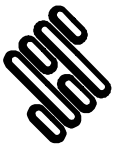


Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH3	
Contract Ref: 722201		Start: 09.10.08 End: 10.10.08	Ground Level (m AOD): 1.84	National Grid Co-ordinate: E:647268.1 N:264282.5	Sheet: 2 of 2

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
8.80-9.30	26	B	N=4			Loose dark grey slightly silty fine to medium SAND. (Norwich Crag) (<i>stratum text copied from layer at 8.50m depth from previous sheet</i>)		(1.50)	
9.40-9.85	27	SPT							
9.90	28	D						-8.16	
Borehole terminated at 10.00m depth.									

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:27. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
All dimensions in metres								Scale: 1:50		
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: SJ		Logged By: JWild		Checked By:



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH4	
Contract Ref: 722201		Start: 10.10.08 End: 10.10.08	Ground Level (m AOD): 2.35	National Grid Co-ordinate: E:647485.0 N:264232.4	Sheet: 1 of 2

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend				
Depth	No	Type	Results										
0.20	1	D				MADE GROUND: Grass over orangish brown fine to medium SAND with rare subangular fine gravel sized shell fragments and pockets of firm clay up to 30mm.							
0.50-1.00	1	B								(1.35)			
1.20-1.65	1	SPT(c)	N=22							1.00	1.35		
1.20	2	D											
1.70	3	D						POSSIBLE MADE GROUND: Medium dense brownish grey very sandy subrounded to rounded fine to coarse GRAVEL of flint and chert with occasional fibrous rootlets up to 2mm diameter.					
2.50-3.00	2	B											
2.70	4	D											
3.20-3.65	2	SPT(c)	N=22								(4.25)		
3.70	5	D											
4.00	1	W											
4.50-5.00	3	B											
4.70	6	D											
5.20-5.65	3	SPT(c)	N=3							-3.25	5.60		
5.60	7	D						Firm grey slightly organic slightly sandy silty CLAY with frequent pseudo-fibrous plant remains and reed fragments up to 10mm diameter.		-3.65	6.00		
5.75-6.20	1	U ₍₁₀₀₎	15 blows										
5.75	8	D											
5.80		HP	c _u =40					(0.55)					
6.10		HP	c _i =30			Soft bluish grey slightly sandy silty CLAY with occasional pseudo-fibrous plant remains and organic matter.	-4.20	6.55					
6.40	9	D											
6.50-6.95	2	U ₍₁₀₀₎	15 blows			Firm dark brown pseudo-fibrous PEAT with plant remains and reed fragments.		(0.60)					
6.70		HP	c _i =60										
7.00	1	ES	Tbx4+VLx4+Jx4				-4.80	7.15					
7.15	10	D											
7.20-7.65	3	U ₍₁₀₀₎	18 blows			Firm organic brownish grey silty CLAY with pseudo-fibrous plant remains and reed fragments up to 10mm diameter.		(1.05)					
7.85	11	D											
7.90	4	U ₍₁₀₀₎	18 blows			... organic content decreasing from 8.00m.	-5.85	8.20					
8.30		HP	c _u =10			... fine gravel sized shell fragments from 8.10 to 8.20m.							
8.55	12	D				Soft bluish grey silty CLAY with rare fine to coarse gravel sized shell fragments and reed fragments up to 5mm diameter.		(1.10)					
8.60-9.05	5	U ₍₁₀₀₎	18 blows			... dampness of strata from 8.70m depth.							

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
10/10/08		2.20	2.20	200	1.90					
10/10/08		4.00	4.00	200	2.00					
10/10/08		9.90	5.75	200	4.30					

1. Inspection pit from 0.00-1.20m depth.
 2. Groundwater strikes at 2.20m, 4.00m and 9.90m depth.
 3. Water added from 1.20m to 3.80m.
 4. Backfilled with bentonite cement pellets on completion.

All dimensions in metres Scale: **1:50**

Method Used: Cable percussion	Plant Used: Dando 2000	Drilled By: RJ	Logged By: JWild	Checked By:
--------------------------------------	-------------------------------	-----------------------	-------------------------	-------------

STRUCTURAL SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:27. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH4	
Contract Ref: 722201		Start: 10.10.08 End: 10.10.08	Ground Level (m AOD): 2.35	National Grid Co-ordinate: E:647485.0 N:264232.4	
Sheet: 2 of 2					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend			
Depth	No	Type	Results									
9.00	2	ES	Tbx4+VLx4+Jx4			Firm friable black amorphous PEAT with occasional plant remains.	-6.95	9.30				
9.20	13	D	25 blows Tbx4+VLx4+Jx4 c _u =55				(0.60)	-7.55	9.90			
9.30-9.70	6	U ₍₁₀₀₎								(0.60)	-8.15	10.50
9.50	3	ES				N=3						
9.50		HP										
9.90	14	D										
9.90	2	W										
10.00-10.45	4	SPT										
Borehole terminated at 10.50m depth.												

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:27. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
All dimensions in metres								Scale: 1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: RJ		Logged By: JWild		Checked By: AGS	

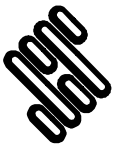


Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH5	
Contract Ref: 722201		Start: 08.10.08 End: 09.10.08	Ground Level (m AOD): 1.63	National Grid Co-ordinate: E:647419.2 N:264234.9	
				Sheet: 1 of 2	

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.20	1	D				MADE GROUND: Grass over yellowish brown slightly gravelly fine to coarse SAND with fine gravel sized shell fragments. Gravel is subangular fine flint.		(1.20)	
0.50-1.00	1	B					0.43	1.20	
1.20-1.65	1	SPT(c)	N=13			MADE GROUND: Medium dense greyish brown slightly silty very gravelly fine to coarse SAND with fine to medium gravel sized shell fragments. Gravel is subangular to subrounded fine to medium flint and chert.			
1.20	2	D							
1.70	3	D							
1.75	1	W							
2.50-3.00	2	B							
2.70	4	D							
3.20-3.65	2	SPT	N=2						
3.50-4.00	3	B				MADE GROUND: Very loose black slightly gravelly very silty fine to coarse SAND with synthetic fibres possibly nylon (1mm diameter). Gravel is subrounded medium to coarse flint.			
3.65	5	D							
4.65	6	D							
4.90	2	W							
5.00	7	D							
5.20-5.65	3	SPT(c)	N=2			POSSIBLE MADE GROUND: Very loose brown slightly gravelly fine to coarse SAND. Gravel is subrounded fine to coarse flint.			
5.50	8	D							
5.75-6.20	1	U ₍₁₀₀₎	15 blows 100% recovery			Soft grey silty CLAY with reed fragments and fibrous plant remains (<5mm diameter).			
5.75	9	D				Spongy friable dark brown pseudo-fibrous PEAT with frequent plant remains and reed fragments (<10mm diameter).			
6.00	1	ES	Tub x3						
6.40	10	D							
6.45	2	ES	Tubx3						
6.45-6.90	2	U ₍₁₀₀₎	18 blows 100% recovery						
7.10	11	D				Soft dark brown organic silty CLAY with pseudo-fibrous plant remains (<5mm diameter).			
7.15-7.60	3	U ₍₁₀₀₎	20 blows 100% recovery			Soft grey silty CLAY with pseudo-fibrous plant remains (<5mm diameter).			
7.80	12	D							
7.85-8.30	4	U ₍₁₀₀₎	25 blows 100% recovery						
8.00	3	ES	Tubx3			Firm friable dark brown amorphous with rare pseudo-fibrous plant material.			
8.50	13	D							
8.55-9.00	5	U ₍₁₀₀₎	35 blows 100% recovery						

STRUCTURAL SOILS, GINT, LIBRARY, GLIBCABLE PERCUSSION LOG | 722201, SIZEWELL, C, SUPPLEMENTARY, INVESTIGATION, GPJ, v8, 02 | 01/04/09 - 16:28. Structural Soils Ltd, Head Office - Bristol, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
08/10/08		1.20	-	200	1.10				1. Inspection pit from 0.00-1.20m depth. 2. Water added from 1.20m to 2.20m depth. 3. Groundwater strikes at 1.20m, 1.75m, 4.90m and 8.90m depth. 4. Gas monitoring standpipe installed to depth of 9.00m.	
08/10/08		1.75	1.75	200	1.25					
08/10/08		4.90	4.90	200	4.15					
09/10/08	08:30	5.00	5.00	200	1.40					
09/10/08		9.05	5.75	200	3.60					
								All dimensions in metres		Scale: 1:50
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: RJ		Logged By: JWild		Checked By:



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH6	
Contract Ref: 722201		Start: 10.10.08 End: 13.10.08	Ground Level (m AOD): 1.40	National Grid Co-ordinate: E:647320.8 N:264235.4	
				Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend	
Depth	No	Type	Results							
0.30	1	D				MADE GROUND: Grass over loose orangish brown fine to coarse SAND with frequent subangular fine gravel sized shell fragments and pockets of firm clay up to 20mm.				
0.50-1.00	2	B								
0.80	1	W								
1.00	3	D								
1.50-1.95	4	SPT	N=6							
1.95	5	D						(4.30)		
2.00	6	D								
2.50-3.00	7	B								
3.00	8	D								
3.50-3.95	9	SPT	N=10							
3.95	10	D								
4.00	11	D						-2.90		4.30
4.40	12	D					Soft slightly organic grey mottled brown silty CLAY with some pseudo-fibrous plant remains up to 2mm diameter.			
4.50-5.00	13	U ₍₁₀₀₎ HP	15 blows c _u =25				... sand lens of 30mm at 4.60m depth.	-3.35		4.75
4.60	1	ES	Tubx3				Stiff dark brown pseudo-fibrous PEAT with plant remains and reed fragments up to 3mm diameter.	-3.60		5.00
4.80	14	D	c _u =80				Soft slightly organic bluish grey mottled brown silty CLAY with pseudo-fibrous plant remains and fine gravel sized shell fragments.	-3.75		5.15
5.00	15	U ₍₁₀₀₎ ES	15 blows Tubx3				Greyish brown slightly gravelly silty fine to medium SAND. Gravel is subangular medium flint and fine shell fragments.	-3.85		5.25
5.00-5.50	2	HP	c _u =50				... dampness of strata from 5.15m to 5.25m depth.	-4.25		5.65
5.40	16	D					Firm organic dark brown CLAY with frequent fibrous plant remains and reed fragments up to 5mm diameter.			(0.55)
5.50-6.00	17	U ₍₁₀₀₎ ES	15 blows Tubx3				... organic content decreasing from 5.50m depth.	-4.80		6.20
6.00	18	D					Soft grey slightly sandy silty CLAY with some pseudo-fibrous plant material.			(0.95)
6.00-6.50	19	U ₍₁₀₀₎ HP	20 blows Tubx3				... dampness of strata from 5.70m depth.	-5.15		6.55
6.00	3	ES	c _u =65				Firm friable dark brown fibrous PEAT with frequent plant remains and reed fragments up to 5mm diameter.			(1.50)
6.30	20	D					Firm friable dark brown mottled orange and black amorphous PEAT with some pseudo-fibrous plant remains and reed fragments up to 5mm diameter.	-6.10		7.50
6.50-7.00	21	U ₍₁₀₀₎ HP	20 blows c _u =70				... becoming stiff from 7.10m depth.			
6.75	22	D				Loose grey slightly silty fine to medium SAND. (Norwich Crag)				
7.00	23	U ₍₁₀₀₎ HP	20 blows c _u =80							
7.00-7.50	4	ES	Tubx3							
7.10	24	D								
7.20	2	W								
7.50	25	SPT	N=8							
7.50	24	D								
8.50-8.95	25	SPT	N=8				-7.60	9.00		

STRUCTURAL SOILS, GINT, LIBRARY, GLIBCABLE PERCUSSION LOG | 722201_SIZWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:28. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Borehole terminated at 9.00m depth.			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
13/10/08	09:00	3.95	3.50	200	0.80				1. Inspection pit dug from 0.00-1.20m depth. 2. Seepage at 0.80m depth. 3. Groundwater strike at 7.50m depth. 4. Standpipe piezometer 19mm diameter installed to 7.00m depth.	
All dimensions in metres									Scale: 1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: SJ		Logged By: JWild		Checked By:		



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH7	
Contract Ref: 722201		Start: 22.10.08 End: 23.10.08	Ground Level (m AOD): 1.49	National Grid Co-ordinate: E:647153.4 N:264253.5	
				Sheet: 1 of 2	

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.30	1	D				MADE GROUND: Grass over orangish brown slightly gravelly fine to coarse SAND with rare pockets of soft grey clay up to 30mm and rootlets up to 3mm diameter. Gravel is fine subangular shell fragments, and medium concrete, subrounded medium to coarse flint and siltstone.		(1.20)	
0.50-1.00	2	B							
1.00	3	D				MADE GROUND: Soft organic dark grey mottled red silty CLAY with rare plant material up to 3mm diameter.	0.29	1.20	
1.20-1.40	4	B						0.09	
1.50-1.95	5	SPT	N=4			MADE GROUND: Grass over orangish brown slightly gravelly slightly silty fine to coarse SAND with rare pockets of soft grey clay up to 30mm and rootlets up to 3mm diameter. Gravel is fine subangular shell fragments, and medium concrete, subrounded medium to coarse flint and siltstone.			
1.95	6	D							
2.00	7	D							
2.50-3.00	8	B						(2.10)	
3.00	9	D							
3.50-3.95	10	SPT	N=2			Very soft dark grey slightly gravelly silty CLAY. Gravel is subangular fine shell fragments.	-2.01	3.50	
3.50-3.80	11	B						-2.31	
3.80	12	B				Soft brownish grey organic silty CLAY with rare subangular fine gravel sized shell fragments and plant remains and reed fragments up to 3mm diameter.			
3.80	13	P						-2.61	
						Firm brown mottled orange and black fibrous PEAT with plant remains and reed fragments up to 20mm.			
						Firm dark brown pseudo-fibrous PEAT with plant remains and reed fragments up to 10mm.			
4.80	14	P				Very soft grey slightly organic silty CLAY.	-3.11	4.60	
						Plastic dark brown pseudo-fibrous PEAT with plant remains and reed fragments up to 5mm.	-3.31	4.80	
						Spongy friable black amorphous PEAT with occasional fine gravel sized shell fragments.	-3.66	5.15	
						Spongy dark brown to black pseudo-fibrous PEAT with occasional plant remains up to 2mm diameter.	-3.86	5.35	
						... pockets of soft grey silty clay of 30mm diameter at 6.20m depth.			
5.80	15	P				Plastic dark brown to black amorphous PEAT with occasional fine grained sized shell fragments.	-4.41	5.90	
								(0.55)	
								(0.60)	
6.80	16	P					-5.01	6.50	
								(1.30)	
7.80	17	P				Very soft grey slightly organic silty CLAY with occasional plant remains and reed fragments up to 5mm.	-6.31	7.80	
						Plastic black amorphous PEAT with occasional fine gravel sized shell fragments.	-6.41	7.90	
								(0.90)	
8.50-9.00	18	U ₍₁₀₀₎	15 blows 0% recovery						
8.50-9.00	19	B					-7.31	8.80	
						<i>Description on next sheet</i>			

STRUCTURAL SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:28. Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
									1. Inspection pit dug from 0.00-1.20m depth. 2. Seep-age at 1.50m depth. 3. Groundwater strike at 9.00m depth. 4. Standpipe 50mm diameter installed up to 12.50m depth.	
All dimensions in metres								Scale:	1:50	
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: SJ		Logged By: JWild		Checked By:



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH7	
Contract Ref: 722201		Start: 22.10.08 End: 23.10.08	Ground Level (m AOD): 1.49	National Grid Co-ordinate: E:647153.4 N:264253.5	
Sheet: 2 of 2					

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
9.00	20	D			<p>Medium dense brown slightly silty fine to medium SAND. (Norwich Crag) (<i>stratum text copied from layer at 8.80m depth from previous sheet</i>)</p> <p>... becoming grey from 10.00m depth.</p> <p>... becoming coarse with frequent subangular fine shell fragments from 13.00m depth.</p>				
9.50-9.95	21	SPT	N=12						
10.00 10.00	1 22	W D							
							(4.70)		
							-12.01	13.50	
Borehole terminated at 13.50m depth.									

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:28.
 Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
All dimensions in metres								Scale:	1:50
Method Used:		Plant Used:		Drilled By:		Logged By:		Checked By:	
Cable percussion		Dando 2000		SJ		JWild			



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH8	
Contract Ref: 722201		Start: 13.10.08 End: 13.10.08	Ground Level (m AOD): 2.12	National Grid Co-ordinate: E:647467.3 N:264183.5	
				Sheet: 1 of 2	

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.20	1	D				MADE GROUND: Grass over orangish brown slightly silty slightly gravelly fine to medium SAND with occasional rootlets of up to 2mm diameter.		(1.10)	[Cross-hatch pattern]
0.50-1.00	1	B						1.02	
1.20-1.65	1	SPT(c)	N=24			MADE GROUND: Medium dense greyish brown slightly silty gravelly fine to medium SAND with fragments of wood and timber. Gravel is subrounded fine to coarse flint and subangular fine shell fragments.			[Cross-hatch pattern]
1.20	2	D							
1.70	3	D							
2.50-3.00	2	B							
2.70	4	D						(3.70)	
3.20-3.65	2	SPT(c)	N=18						
3.70	5	D							
4.50-4.80	3	B						-2.68	4.80
4.70	6	D							
4.90	7	D				Soft slightly organic grey silty CLAY with occasional pseudo-fibrous plant remains and reed fragments up to 5mm diameter.			[X-pattern]
5.00-5.45	1	U ₍₁₀₀₎	15 blows					(0.95)	
5.25		HP	c _v =25						
5.65	8	D				Spongy dark brown pseudo-fibrous PEAT with plant remains and reed fragments up to 3mm diameter.		-3.63	5.75
5.70-6.15	2	U ₍₁₀₀₎	18 blows					-3.73	5.85
5.80	1	ES	Tubx3			Firm organic brown silty CLAY with pseudo-fibrous plant remains and reed fragments up to 10mm diameter.			[X-pattern]
6.00		HP	c _v =50						
6.20	2	ES	Tubx3						
6.35	9	D				Soft grey silty CLAY with some pseudo-fibrous plant remains and reed fragments up to 3mm diameter.			[X-pattern]
6.40-6.85	3	U ₍₁₀₀₎	20 blows					-4.33	
6.60		HP	c _v =25						
7.05	10	D							
7.10-7.55	4	U ₍₁₀₀₎	18 blows						
7.75	11	D							
7.80-8.25	5	U ₍₁₀₀₎	18 blows			... organic content decreasing from 7.80m depth. ... fine gravel sized shell fragments from 8.00m depth. ... dampness of strata from 8.10m depth.		(2.75)	
8.45	12	D							
8.50-8.95	6	U ₍₁₀₀₎	20 blows						

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
13/10/08		2.60	2.60	200	1.55	1.30	1.60	00:25	1. Inspection pit from 0.00-1.20m depth. 2. Water added from 1.20m to 3.00m depth. 3. Groundwater strikes at 2.60m and 10.40m depth. 4. Standpipe piezometer 19mm diameter installed to 6.00m depth.	
13/10/08		10.40	5.00	200	3.60					
All dimensions in metres								Scale:	1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: RJ		Logged By: JWild		Checked By: AGS		

STRUCTURAL SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:28.
 Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH8	
Contract Ref: 722201		Start: 13.10.08 End: 13.10.08	Ground Level (m AOD): 2.12	National Grid Co-ordinate: E:647467.3 N:264183.5	Sheet: 2 of 2

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
9.15 9.20-9.65	13 7	D U ₍₁₀₀₎	25 blows	↓		Firm friable dark brown amorphous PEAT with rare pseudo-fibrous plant remains up to 2mm diameter.	-7.08	9.20	
9.50 9.50	3	ES HP	Tubx3 c _i =55			(0.80)			
9.85 9.90-10.30	14 8	D U ₍₁₀₀₎	30 blows			-7.88	10.00		
						Plastic moist dark brown slightly sandy amorphous PEAT with rare subangular fine to medium flint gravel.	-8.28	10.40	
10.60-11.05	3	SPT	N=14			Medium dense grey slightly silty fine to medium SAND. (Norwich Crag)		(0.65)	
						Borehole terminated at 11.05m depth.	-8.93	11.05	

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:28. Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
All dimensions in metres								Scale: 1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: RJ		Logged By: JWild		Checked By:	



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH9	
Contract Ref: 722201		Start: 23.10.08 End: 24.10.08	Ground Level (m AOD): 1.56	National Grid Co-ordinate: E:647369.0 N:264178.8	
				Sheet: 1 of 2	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.20	1	D				MADE GROUND: Grass over medium dense orangish brown slightly silty slightly gravelly fine to medium SAND with rare rootlets up to 3mm diameter and wood up to 25mm diameter. Gravel is subangular fine shell fragments, subangular medium to coarse flint and subangular medium concrete. . . . low content of subangular to rounded flint and subangular concrete cobbles up to 100mm from 0.80m depth.	(2.25)		
0.40-0.40	1	B							
0.80-1.20	2	B							
1.20-1.65	1	SPT(c)	N=17						
1.20	2	D							
1.60	1	W							
1.70	3	D							
2.50-3.00	3	B							
2.70	4	D							
3.20-3.65	2	SPT(c)	N=4						
3.70	5	D							
3.90	6	D							
4.00-4.45	1	U ₍₁₀₀₎	15 blows						
4.65	7	D							
4.70-5.15	2	U ₍₁₀₀₎	15 blows						
4.90		HP	c _u =50						
5.00	1	ES	Tubx3						
5.35	8	D							
5.40-5.85	3	U ₍₁₀₀₎	10 blows						
6.05	9	D							
6.10-6.55	4	U ₍₁₀₀₎	15 blows						
6.40		HP	c _u =30						
6.50	2	ES	Tubx3						
6.75	10	D							
6.80-7.25	5	U ₍₁₀₀₎	15 blows						
7.45	11	D							
7.50-7.95	6	U ₍₁₀₀₎	25 blows						
7.70		HP	c _u =30						
8.15	12	D							
8.20-8.60	7	U ₍₁₀₀₎	25 blows						
8.50	3	ES	Tubx3						
8.85	13	D							

STRUCTURAL SOILS, GINT, LIBRARY, GLIBCABLE PERCUSSION LOG | 722201, SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:28. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
24/10/08		3.20	3.20	200	1.90					
24/10/08		9.10	4.00	200	3.20					
								All dimensions in metres		Scale: 1:50
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: RJ		Logged By: JWild		Checked By:		

1. Inspection pit from 0.00-1.2m depth.
2. Water added from 2.25m to 3.00m depth.
3. Groundwater strikes at 3.20m and 9.10m depth.
4. Backfilled with bentonite cement pellets.



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH9	
Contract Ref: 722201		Start: 23.10.08 End: 24.10.08	Ground Level (m AOD): 1.56	National Grid Co-ordinate: E:647369.0 N:264178.8	
Sheet: 2 of 2					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
9.55-10.00	3	SPT	N=4			Loose grey medium to coarse SAND. (Norwich Crag) (<i>stratum text copied from layer at 8.90m depth from previous sheet</i>)	-8.44	(1.10) 10.00	
Borehole terminated at 10.00m depth.									

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:28. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
All dimensions in metres								Scale: 1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: RJ		Logged By: JWild		Checked By:	

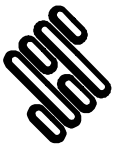


Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH10	
Contract Ref: 722201		Start: 13.10.08 End: 13.10.08	Ground Level (m AOD): 1.51	National Grid Co-ordinate: E:647264.6 N:264185.1	
Sheet: 1 of 1					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.30	1	D				MADE GROUND: Grass over loose orangish brown slightly silty gravelly SAND with pockets of firm clay up to 40mm diameter. Gravel is fine subangular shell fragments and rare subrounded fine to coarse flint.			
0.50-1.00	2	B							
1.00	3	D							
1.50-1.95	4	SPT	N=5						
1.95	5	D							
2.00	6	D							
2.50-3.00	7	B							
						... concrete from 2.80m depth.	-1.49	3.00	
						Borehole terminated at 3.00m depth.			

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:28.
Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
						2.80	3.00	01:00	1. Inspection pit dug from 0.00-1.20m depth. 2. Borehole aborted at 3.00m depth due to obstruction, possibly concrete. 3. Backfilled with bentonite cement pellets on completion.	
All dimensions in metres								Scale:	1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: SJ		Logged By: JWild		Checked By:		



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH10A	
Contract Ref: 722201		Start: 14.10.08 End: 15.10.08	Ground Level (m AOD): 1.59	National Grid Co-ordinate: E:647264.3 N:264180.5	
				Sheet: 1 of 2	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.30	1	D				<p>MADE GROUND: Grass over loose orangish brown silty gravelly fine to medium SAND with pockets of soft grey clay up to 50mm. Gravel is subangular fine shell fragments and rare subrounded fine to medium flint and subangular fine to coarse concrete.</p>	<p>(4.00)</p>		
0.50-1.00	2	B							
1.00	3	D							
1.50-1.95	4	SPT	N=9						
1.95	5	D							
2.00	6	D							
2.50-3.00	7	B							
3.00	8	D							
3.50-3.95	9	SPT	N=6						
3.95	10	D							
4.00	11	D							
4.00-4.50	12	U ₍₁₀₀₎	15 blows						
4.25	1	ES	Tbx4+VLx4+Jx4						
4.50	13	D							
4.50-5.00	14	U ₍₁₀₀₎	15 blows						
4.60	2	ES	Tbx4+VLx4+Jx4						
4.90	15	HP	c _u =20						
5.00	15	D							
5.00-5.50	16	U ₍₁₀₀₎	12 blows						
5.20	3	ES	Tbx4+VLx4+Jx4						
5.50	17	D							
5.50-6.00	18	U ₍₁₀₀₎	12 blows						
5.50	4	ES	Tubx3						
5.60	19	HP	c _u =20						
6.00	19	D							
6.00-6.50	20	U ₍₁₀₀₎	15 blows						
6.00	5	ES	Tbx4+VLx4+Jx4						
6.50	21	D							
6.50-7.00	22	U ₍₁₀₀₎	12 blows						
7.00	23	D							
7.00-7.50	24	U ₍₁₀₀₎	12 blows						
7.00	6	ES	Tubx3						
7.50	25	D							
7.50-8.00	26	U ₍₁₀₀₎	15 blows						
7.50	7	ES	Tbx4+VLx4+Jx4						
8.00	27	D							
8.00-8.50	28	U ₍₁₀₀₎	20 blows 0% recovery c _u =20						
8.20	29	HP							
8.40	29	D							

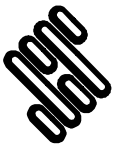
STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:29. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
14/10/08	16:30	4.50	4.50	200	Dry					
15/10/08		8.50	4.50	200	4.50					

All dimensions in metres | Scale: **1:50**

Method Used: Cable percussion	Plant Used: Dando 2000	Drilled By: SJ	Logged By: JWild	Checked By:
--------------------------------------	-------------------------------	-----------------------	-------------------------	-------------

1. Inspection pit from 0.00-1.20m depth.
2. Groundwater strike at 8.50m depth.
3. Backfilled with bentonite cement pellets on completion.

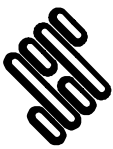


Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH10A	
Contract Ref: 722201		Start: 14.10.08 End: 15.10.08	Ground Level (m AOD): 1.59	National Grid Co-ordinate: E:647264.3 N:264180.5	
Sheet: 2 of 2					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
9.00 9.00-9.45	1 30	W SPT	N=11			Medium dense grey slightly silty fine to medium SAND. (Norwich Crag) (<i>stratum text copied from layer at 8.30m depth from previous sheet</i>) Borehole terminated at 9.50m depth.	-7.91	9.50	

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:29. Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
All dimensions in metres								Scale:	1:50
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: SJ		Logged By: JWild		Checked By:	



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH11	
Contract Ref: 722201		Start: 22.10.08 End: 22.10.08	Ground Level (m AOD): 1.67	National Grid Co-ordinate: E:647419.9 N:264132.2	
Sheet: 1 of 2					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.20	1	D			MADE GROUND: Grass over very loose orangish brown slightly silty gravelly fine to medium SAND with rare rootlets up to 2mm diameter. Gravel is subangular fine shell fragments and subrounded to rounded medium to coarse flint.				
0.50	2	B							
0.50	3	B							
1.00	4	D							
1.50-1.95	5	SPT _(NR)	N=1						
2.00	6	D							
2.50	7	B							
3.00	8	D							
3.50-3.95	9	SPT _(NR)	N=15						
4.00	10	D							
4.50	11	B			POSSIBLE MADE GROUND: Medium dense greyish brown gravelly fine to medium SAND with rare plant remains (leaves). Gravel is subangular fine shell fragments and subrounded to rounded medium to coarse flint and chert.	-1.83	3.50		
4.70	12	D							
4.70	13	U ₍₁₀₀₎	8 blows		Very soft light grey slightly sandy silty CLAY with rare pseudo-fibrous plant remains up to 3mm diameter. . . dampness of strata from 4.70m depth.				
5.00	1	ES	Tbx4+VLx4+Jx4						
5.30	14	D			Plastic dark brown pseudo-fibrous PEAT with occasional plant remains and reed fragments up to 5mm diameter.				
5.30	15	U ₍₁₀₀₎	8 blows						
5.90	16	D			Soft slightly organic brownish grey silty CLAY with occasional pseudo-fibrous plant remains and reed fragments up to 2mm diameter.	-4.43	6.10		
5.90	17	U ₍₁₀₀₎	9 blows						
6.00	2	ES	Tbx4+VLx4+Jx4		Very soft grey organic silty CLAY with rare plant remains up to 1mm diameter and fine gravel sized shell fragments.				
6.50	18	D							
6.50	19	U ₍₁₀₀₎	15 blows			-5.23	6.90		
7.10	20	D							
7.10	21	U ₍₁₀₀₎	15 blows		Soft slightly organic brownish grey silty CLAY with occasional pseudo-fibrous plant remains and reed fragments up to 2mm diameter.				
7.50	3	ES	Tbx4+VLx4+Jx4						
7.70	22	D			Very soft grey organic silty CLAY with rare plant remains up to 1mm diameter and fine gravel sized shell fragments.				
7.70	23	U ₍₁₀₀₎	16 blows						
8.30	24	D			Very soft grey organic silty CLAY with rare plant remains up to 1mm diameter and fine gravel sized shell fragments.				
8.30	25	U ₍₁₀₀₎	16 blows						
8.50	4	ES	Tbx4+VLx4+Jx4						

STRUCTURAL SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:29. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	

1. Inspection pit from 0.00-1.20m depth.
 2. Water added from 1.20m to 4.50m depth.
 3. Groundwater strike at 11.30m depth.
 4. Backfilled with bentonite cement pellets on completion.

All dimensions in metres Scale: **1:50**

Method Used: Cable percussion	Plant Used: Dando 2000	Drilled By: DS	Logged By: JWild	Checked By: AGS
--------------------------------------	-------------------------------	-----------------------	-------------------------	------------------------



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH11	
Contract Ref: 722201		Start: 22.10.08 End: 22.10.08	Ground Level (m AOD): 1.67	National Grid Co-ordinate: E:647419.9 N:264132.2	
Sheet: 2 of 2					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
8.90	26	D				Very soft grey organic silty CLAY with rare plant remains up to 1mm diameter and fine gravel sized shell fragments. (<i>stratum text copied from layer at 8.30m depth from previous sheet</i>)	-7.83	9.50	
8.90	27	U ₍₁₀₀₎	30 blows						
9.50	28	U ₍₁₀₀₎	16 blows			Spongy dark brown to black amorphous PEAT with occasional fine gravel sized shell fragments and pockets of soft clay up to 50mm diameter. ... becoming friable from 10.00m depth.		(1.80)	
10.00	5	ES	Tbx4+VLx4+Jx4						
10.10	29	D							
10.10	30	U ₍₁₀₀₎	18 blows						
10.70	31	D				Medium dense grey fine to medium SAND. (Norwich Crag)	-9.63	11.30	
10.70	32	U ₍₁₀₀₎	14 blows 0% recovery						
11.50-11.95	33	SPT	N=16				-10.13	11.80	
						Borehole terminated at 11.80m depth.			

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:29. Structural Soils Ltd, Head Office - Bristol, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
All dimensions in metres								Scale: 1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: DS		Logged By: JWild		Checked By:	



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH12	
Contract Ref: 722201		Start: 23.10.08 End: 24.10.08	Ground Level (m AOD): 1.83	National Grid Co-ordinate: E:647460.9 N:264099.3	
				Sheet: 1 of 2	

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend		
Depth	No	Type	Results								
0.20	1	D				<p>MADE GROUND: Grass over medium dense orangish brown fine to medium SAND with occasional subangular cobbles of concrete up to 90mm and rare rootlets up to 3mm diameter. Gravel is subangular fine shell fragments and subangular to rounded fine to medium flint.</p>					
0.50	2	B					(2.00)				
1.00	4	D									
1.50-1.95	5	SPT _(NR)	N=14								
2.00	6	D						-0.17		2.00	
2.50	7	B					<p>POSSIBLE MADE GROUND: Medium dense dark grey organic gravelly silty fine to medium SAND with plant remains up to 3mm diameter. Gravel is subangular fine shell fragments and subrounded to rounded medium flint.</p>				
3.00	8	D									
3.50-3.95	9	SPT	N=18								
4.00	10	W									
4.00	11	D									
4.50	12	B									
4.90	13	D									
4.90	14	U ₍₁₀₀₎	8 blows							-3.27	5.10
5.20	1	HP	c _u =30							-3.37	5.20
5.30	1	ES	Tubx3								
5.30	1	HP	c _u =80							-3.67	5.50
5.50	15	D									
5.50	16	U ₍₁₀₀₎	12 blows								
6.10	17	U ₍₁₀₀₎	9 blows								(1.45)
6.70	18	D									
6.70	19	U ₍₁₀₀₎	12 blows							-5.12	6.95
7.00	2	ES	Tubx3								
7.00	20	HP	c _u =25							-5.37	7.20
7.30	20	D									
7.30	21	U ₍₁₀₀₎	7 blows								
7.90	22	D									
7.90	23	U ₍₁₀₀₎	11 blows					(2.85)			
8.50	24	D									
8.50	25	U ₍₁₀₀₎	8 blows								

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:29. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
24/10/08	09:00	4.00	4.00	200	1.00				
27/10/08	12:00	16.50	16.50	150					

1. Inspection pit from 0.00-1.20m depth.
 2. Water added from 1.20m to 4.00m depth.
 3. Standpipe 50mm diameter installed to 12.00m depth.

All dimensions in metres Scale: **1:50**

Method Used: Cable percussion	Plant Used: Dando 2000	Drilled By: DS	Logged By: JWild	Checked By:
--------------------------------------	-------------------------------	-----------------------	-------------------------	-------------



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH12	
Contract Ref: 722201		Start: 23.10.08 End: 24.10.08	Ground Level (m AOD): 1.83	National Grid Co-ordinate: E:647460.9 N:264099.3	Sheet: 2 of 2

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend				
Depth	No	Type	Results										
9.10	26	D				Soft light grey silty CLAY with rare pseudo-fibrous plant remains and reed fragments up to 5mm diameter. <i>(stratum text copied from layer at 7.20m depth from previous sheet)</i> fine gravel sized shell fragments from 9.10m to 10.00m depth.							
9.10	27	U ₍₁₀₀₎	14 blows										
9.70	28	D					Firm friable black amorphous PEAT with occasional pseudo-fibrous plant remains up to 2mm diameter. ... orange mottling between 10.40m to 11.35m depth.	-8.22	10.05				
9.70	29	U ₍₁₀₀₎	10 blows										
10.10		HP	c _u =50				Grey fine to medium SAND. (Norwich Crag)		(1.30)				
10.30	30	D											
10.30	31	U ₍₁₀₀₎	20 blows										
10.90	32	D					Grey fine to medium SAND. (Norwich Crag)		(5.15)				
10.90	33	U ₍₁₀₀₎	19 blows										
11.00	3	ES	Tubx3										
							Borehole terminated at 16.50m depth.						

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:29. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
All dimensions in metres								Scale: 1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: DS		Logged By: JWild		Checked By:	



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH13	
Contract Ref: 722201		Start: 23.10.08 End: 23.10.08	Ground Level (m AOD): 1.31	National Grid Co-ordinate: E:647315.9 N:264128.2	
Sheet: 1 of 1					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.20	1	D				MADE GROUND: Grass over orangish brown slightly silty gravelly SAND. Gravel is fine subangular shell fragments and rare subrounded fine to coarse flint. ... obstruction from 0.60m depth. Borehole terminated at 0.60m depth.	0.71	0.60	
0.50	2	B							
0.50	3	B							

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:29. Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
									1. Inspection pit dug from 0.00-0.60m depth. 2. Borehole aborted at 0.60m depth due to obstruction. 3. Backfilled with bentonite cement pellets on completion.	
All dimensions in metres								Scale:	1:50	
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: DS		Logged By: JWild		Checked By:



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH13A	
Contract Ref: 722201		Start: 23.10.08 End: 23.10.08	Ground Level (m AOD): 1.47	National Grid Co-ordinate: E:647322.7 N:264126.1	
				Sheet: 1 of 2	

Samples and In-situ Tests				Water Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
1.00	1	D			POSSIBLE MADE GROUND: Grass over medium dense orangish brown slightly gravelly clayey fine to medium SAND with rare subangular fine gravel sized shell fragments and pockets of firm clay up to 30mm diameter. Gravel is subangular to round medium to coarse flint.			
1.50-1.95	2	SPT	N=19				(4.00)	
2.00	3	D						
2.50	4	B			... rare coarse flint gravel at 2.50m depth.			
3.00	5	D						
3.50-3.95	6	SPT	N=13					
4.00	7	D			Medium dense dark brownish grey very clayey fine to medium SAND with pockets of fibrous plant remains up to 40mm diameter.	-2.54	4.00	
4.50	8	B			Very soft bluish grey slightly sandy silty CLAY.	-3.04	4.50	
4.50	9	U ₍₁₀₀₎	8 blows		... dampness of strata from 4.55m to 4.70m depth.	-3.24	4.70	
5.10	10	D			Soft light grey silty CLAY.	-3.44	4.90	
5.10	11	U ₍₁₀₀₎	8 blows		Soft slightly organic grey silty CLAY with occasional pseudo-fibrous plant remains and reed fragments up to 5mm diameter.			
5.70	12	D			... pockets of pseudo-fibrous peat up to 40mm diameter from 4.90m to 5.20m depth.			
5.70	13	U ₍₁₀₀₎	8 blows				(2.75)	
6.30	14	U ₍₁₀₀₎	16 blows		... dampness of strata from 6.30m to 6.90m depth.			
6.90	15	U ₍₁₀₀₎						
7.50	16	D				-6.19	7.65	
8.00	17	ES	Tubx3		Plastic dark brown pseudo-fibrous PEAT with frequent plant remains and reed fragments up to 5mm diameter and pockets of soft silty clay up to 50mm diameter.	-6.64	8.10	
8.10	18	D			Very soft bluish grey silty CLAY with rare pseudo-fibrous plant remains up to 2mm diameter.	-6.94	8.40	
8.10	19	U ₍₁₀₀₎	20 blows		... dampness of strata from 8.20m to 8.40m depth.			
8.70	20	D			<i>Description on next sheet</i>			
8.70	21	U ₍₁₀₀₎	19 blows					

STRUCTURAL SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:29. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
									1. Inspection pit dug from 0.00-1.20m depth. 2. Water added from 1.20m to 4.00m depth. 3. Standpipe piezometer 19mm diameter installed to 9.30m depth. 4. SPT test presented as 'as drilled' with no extrapolation of N value.	
All dimensions in metres								Scale:	1:50	
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: DS		Logged By: JWild		Checked By:



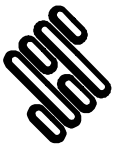
Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH13A	
Contract Ref: 722201		Start: 23.10.08 End: 23.10.08	Ground Level (m AOD): 1.47	National Grid Co-ordinate: E:647322.7 N:264126.1	
Sheet: 2 of 2					

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
9.30	22	D	18 blows Tubx3	[Symbol]	Spongy dark brown mottled black and red amorphous PEAT with rare pseudo-fibrous plant remains up to 2mm diameter and fine gravel sized shell fragments. <i>(stratum text copied from layer at 8.40m depth from previous sheet)</i> ... becoming locally friable from 9.30m depth.	-8.44	(1.50)	[Symbol]	
9.30	23	U ₍₁₀₀₎					[Symbol]		
9.50	2	ES					[Symbol]		
9.90-10.31	25	SPT	1,4 / 7,11,18,14 for 30mm	[Symbol]	Very dense brown fine to medium SAND with occasional subangular fine shell fragments. (Norwich Crag)	-8.94	(0.50)	[Symbol]	
Borehole terminated at 10.40m depth.									

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:29. Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
All dimensions in metres								Scale: 1:50		
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: DS		Logged By: JWild		Checked By: [Signature]



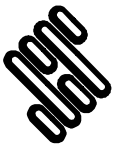


Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH14	
Contract Ref: 722201		Start: 28.10.08 End: 28.10.08	Ground Level (m AOD): 1.56	National Grid Co-ordinate: E:647214.9 N:264133.5	
Sheet: 1 of 2					

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend		
Depth	No	Type	Results								
0.20	1	D			MADE GROUND: Grass over loose orangish brown slightly gravelly slightly silty fine to medium SAND with rare rootlets up to 2mm diameter and pockets of soft clay up to 30mm. Gravel is subangular fine shell fragments, subangular to subrounded fine to medium siltstone and subrounded to rounded fine to medium flint. ... becoming silty from 1.00m depth.			[Cross-hatch pattern]			
0.50	2	B									
1.00	4	D							(2.10)		
1.50-1.95	5	SPT	N=9								
2.00	6	D					-0.54		2.10		
2.50	7	B				POSSIBLE MADE GROUND: Loose dark brown mottled orange slightly gravelly silty fine to medium SAND. Gravel is subangular fine shell fragments and subrounded to rounded fine to medium flint. ... becoming slightly silty from 3.00m depth. ... low cobble content of subangular to subrounded flint up to 65mm.				[Cross-hatch pattern]	
3.00	8	D									(2.40)
3.50-3.95	9	SPT _(NR)	N=9								
4.00	10	D									
4.50	11	B							-2.94		4.50
5.00	12	D						(0.90)			
5.40	13	D					-3.84	5.40			
5.40	14	U ₍₁₀₀₎	14 blows				-4.04	5.60			
5.50		HP	c _v =25		Soft grey slightly sandy silty CLAY. Firm grey silty CLAY with rare plant material and reed fragments up to 3mm diameter. ... locally slightly sandy from 6.00m to 6.40m depth. ... dampness of strata from 6.60m depth.				[Horizontal lines]		
5.70		HP	c _u =40								
6.00	15	D									
6.00	16	U ₍₁₀₀₎	14 blows					(1.85)			
6.60	17	D									
6.60	18	U ₍₁₀₀₎	20 blows								
7.20	19	D									
7.20	20	U ₍₁₀₀₎	20 blows				-5.89	7.45			
7.80	21	D				Spongy friable dark brown pseudo-fibrous PEAT with plant remains and reed fragments up to 5mm diameter. ... pockets of soft grey clay up to 40mm diameter from 8.10m to 8.30m depth.				[Vertical lines]	
7.80	22	U ₍₁₀₀₎	19 blows								(1.05)
8.00	1	ES	Tubx3								
8.40	23	D					-6.94	8.50			
8.40	24	U ₍₁₀₀₎	23 blows					(0.50)			
8.50	2	ES	Tubx3								
8.50		HP	c _v =40								
8.60							-7.44	9.00			

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
									1. Inspection pit from 0.00-1.20m depth. 2. Water added from 1.20m to 5.40m depth. 3. Standpipe piezometer 19mm diameter installed to 8.50m depth.	
All dimensions in metres								Scale:	1:50	
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: DS		Logged By: JWild		Checked By:

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:29
Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH14	
Contract Ref: 722201		Start: 28.10.08 End: 28.10.08	Ground Level (m AOD): 1.56	National Grid Co-ordinate: E:647214.9 N:264133.5	
Sheet: 2 of 2					

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
9.00	25	D	25 blows			Medium dense grey slightly silty fine to medium SAND. (Norwich Crag)		(1.10)	
9.00	26	U ₍₁₀₀₎							
9.60	27	D	N=16						
9.60-10.05	28	SPT _(NR)							
Borehole terminated at 10.10m depth.							-8.54	10.10	

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:29. Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
All dimensions in metres								Scale:	1:50
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: DS		Logged By: JWild		Checked By: 	



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH15	
Contract Ref: 722201		Start: 08.10.08 End: 08.10.08	Ground Level (m AOD): 2.03	National Grid Co-ordinate: E:647475.3 N:264069.0	
Sheet: 1 of 1					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
						MADE GROUND: Grass over orangish brown sand fill. (Drillers description).	1.18	(0.85)	
						Borehole terminated at 0.85m depth due to concrete boulder moved borehole to borehole 15A.		0.85	

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:29. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
									1. Inspection pit from 0.00-0.85m depth 2. Obstruction of concrete boulder at 0.85m depth.	
All dimensions in metres								Scale:	1:50	
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: RJ		Logged By: JWild		Checked By:

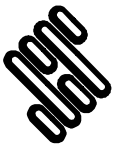


Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH15A	
Contract Ref: 722201		Start: 08.10.08 End: 08.10.08	Ground Level (m AOD): 2.05	National Grid Co-ordinate: E:647468.8 N:264079.3	
Sheet: 1 of 1					

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.20	1	D			MADE GROUND: Grass over orangish brown slightly silty fine to medium SAND with occasional fine gravel sized shell fragments.		(1.10)		
0.50-1.00	1	B					0.95		1.10
1.20-1.65	1	SPT(c)	N=52		POSSIBLE MADE GROUND: Very dense orangish brown sandy fine to coarse subrounded to rounded GRAVEL of flint and chert.		(1.40)		
1.20	2	D					-0.46		2.50
1.70	3	D		↓	Dense grey sandy subrounded to rounded fine to coarse GRAVEL of flint and chert with rare fine gravel sized shell fragments.		(2.60)		
2.50-3.00	2	B					-3.06		5.10
2.70	4	D							
3.20-3.65	2	SPT(c)	N=40	↓	Borehole terminated at 5.10 m depth.				
3.60	1	W							
3.70	5	D							
4.50-5.00	3	B							
4.70	6	D							

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:30
Structural Soils Ltd., Head Office - Bristol, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
08/10/08		2.00	2.00	200	1.70					
08/10/08		3.60	3.20	200	1.60					
									1. Inspection pit from 0.00-1.20m depth. 2. Water added from 1.20m to 2.50m depth. 3. Groundwater strikes at 2.00m and 3.60m depth. 4. Backfilled with bentonite cement pellets on completion.	
All dimensions in metres								Scale: 1:50		
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: RJ		Logged By: JWild		Checked By:

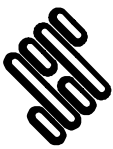


Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH16	
Contract Ref: 722201		Start: 06.10.08 End: 07.10.08	Ground Level (m AOD): 1.71	National Grid Co-ordinate: E:647366.2 N:264080.1	
				Sheet: 1 of 2	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.15	1	D				MADE GROUND: Grass over orangish brown fine to medium SAND with occasional fine to coarse gravel sized shell fragments and rare pockets of firm clay (up to 20mm).	0.16	(1.55)	
0.50-1.00	1	B							
1.15-1.95	2	D				POSSIBLE MADE GROUND: Dense orangish brown silty gravelly fine to medium SAND with rare fine gravel sized shell fragments and pockets of firm clay (up to 20mm). Gravel is subrounded to rounded fine to medium flint.	0.16	1.55	
1.50-1.95	1	SPT	N=45						
1.95	3	D				Very soft bluish grey organic silty CLAY with rare pseudo-fibrous plant remains (<2mm diameter).	-2.79	4.50	
2.50-3.00	2	B							
3.00	4	D				... dampness of strata from 6.30m to 6.80m depth.	-5.29	7.00	
3.50-3.95	2	SPT	N=49						
3.95	5	D				Soft organic greyish brown silty CLAY with frequent reed fragments (<10mm diameter).	-6.09	7.80	
4.50-5.00	1	P							
4.50	6	D				... organic content decreasing from 8.45m depth.	-6.94	8.65	
5.10-6.10	2	P							
6.25-6.75	1	U ₍₁₀₀₎	10 blows 100% recovery			Firm friable dark brown mottled red orange and black amorphous PEAT with rare pseudo-fibrous plant remains (<2mm diameter).			
6.95	7	D							
7.00-7.50	2	U ₍₁₀₀₎	20 blows 100% recovery						
7.20	1	ES HP	Tubx3 c _u =35						
7.70	8	D							
7.75-8.25	3	U ₍₁₀₀₎	20 blows 100% recovery						
8.00	2	ES HP	Tubx3 c _u =35						
8.45	9	D							
8.50-9.00	4	U ₍₁₀₀₎	30 blows 100% recovery						

STRUCTURAL SOILS, GINT, LIBRARY, GLIBCABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:30. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
06/10/08		4.40	4.40	200	4.05					
07/10/08		10.80	5.20	200	4.50					
								1. Inspection pit from 0.00-1.20m depth. 2. Water added from 1.50m to 4.00m depth. 3. Seepage at 4.40m depth, groundwater strike at 10.80m. 4. Backfilled with bentonite cement pellets on completion.		
All dimensions in metres								Scale: 1:50		
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: RJ		Logged By: JWild		Checked By:

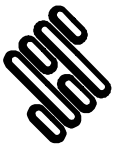


Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH16	
Contract Ref: 722201		Start: 06.10.08 End: 07.10.08	Ground Level (m AOD): 1.71	National Grid Co-ordinate: E:647366.2 N:264080.1	
Sheet: 2 of 2					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
8.80		HP	$c_u=55$			Firm friable dark brown mottled red orange and black amorphous PEAT with rare pseudo-fibrous plant remains (<2mm diameter). <i>(stratum text copied from layer at 8.65m depth from previous sheet)</i>		(2.15)	
9.20	10	D							
9.25-9.75	5	$U_{(100)}$	45 blows 100% recovery						
9.50	3	ES	Tubx3						
9.50		HP	$c_u=65$						
9.95	11	D							
10.00-10.45	6	$U_{(100)}$	45 blows 100% recovery						
10.65	12	D							
10.80	1	W							
11.05-11.50	3	SPT	N=8						
							-9.79	11.50	
Borehole terminated at 11.50m depth.									

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:30
Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
All dimensions in metres								Scale: 1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: RJ		Logged By: JWild		Checked By: AGS	



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH17	
Contract Ref: 722201		Start: 06.10.08 End: 08.10.08	Ground Level (m AOD): 1.42	National Grid Co-ordinate: E:647264.3 N:264081.6	
Sheet: 1 of 2					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.30	1	D		↓	[Hatched]	MADE GROUND: Grass over orangish brown slightly gravelly fine to medium SAND with fine gravel sized shell fragments and rootlets (up to 4mm diameter). Gravel is subangular fine to coarse siltstone. ... ingress of water into borehole at 0.70m depth. ... from 0.80m depth subangular coarse gravel and cobbles (up to 150mm) if concrete.	-0.18	1.60	[Cross-hatch]
0.50-1.00	2	B							
0.70	1	W							
1.00-2.00	3	D							
1.50-1.95	4	SPT(c)	N=37						
1.50-2.00	5	B							
2.00	6	D							
2.50-3.00	7	B							
3.00	8	D							
3.50-3.95	9	SPT(NR)	N=8						
3.50-4.00	10	B		↓	[Hatched]	MADE GROUND: Dense orangish brown slightly gravelly silty fine to medium SAND with pockets (up to 100mm diameter) of firm brown sandy clay and fine gravel sized shell fragments. Gravel is subangular fine to medium siltstone, chert and flint.	-2.38	3.80	[Cross-hatch]
4.00-4.50	11	U ₍₁₀₀₎	10 blows						
4.50	12	D							
4.50-5.00	13	U ₍₁₀₀₎	7 blows						
5.00	14	D							
5.00-5.50	15	U ₍₁₀₀₎	7 blows						
5.50	16	D							
5.50-6.00	17	U ₍₁₀₀₎	12 blows						
6.00	18	D							
6.00-6.50	19	U ₍₁₀₀₎	12 blows						
6.50	20	D		↓	[Hatched]	Soft grey silty CLAY with frequent fibrous plant remains and reed fragments (up to 10mm diameter) and rare fine gravel sized shell fragments.	-3.58	5.00	[X-pattern]
6.50-7.00	21	U ₍₁₀₀₎	15 blows						
7.00	22	D							
7.00-7.50	23	U ₍₁₀₀₎	15 blows						
7.50	24	D							
7.50-8.00	25	U ₍₁₀₀₎	15 blows						
8.00	26	D							
8.00-8.50	27	U ₍₁₀₀₎	15 blows						
8.50	28	D							
8.50-9.00	29	U ₍₁₀₀₎	15 blows						
8.50	1	ES	Tubx3	↓	[Hatched]	Firm dark brown amorphous PEAT with occasional pseudo-fibrous plant remains (up to 2mm diameter).	-7.08	8.50	[Wavy]
8.50	28	D							
8.50-9.00	29	U ₍₁₀₀₎	15 blows						

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:30. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
06/10/08		0.70	-	200	0.70					
07/10/08	16:00	7.50	4.50	200	Dry					
08/10/08		11.50	7.50	200	3.50					
All dimensions in metres									Scale: 1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: SJ		Logged By: JWild		Checked By: AGS		

- Hand dug inspection pit from 0.00-1.20m depth.
- Groundwater strike at 0.70m depth.
- Groundwater strike at 10.50m rose to 3.50m after 20 minutes.
- Exploratory hole backfilled with bentonite cement pellets on completion.



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH17	
Contract Ref: 722201		Start: 06.10.08 End: 08.10.08	Ground Level (m AOD): 1.42	National Grid Co-ordinate: E:647264.3 N:264081.6	Sheet: 2 of 2

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend	
Depth	No	Type	Results							
8.60		HP	$c_u=40$			Firm dark brown amorphous PEAT with occasional pseudo-fibrous plant remains (up to 2mm diameter). <i>(stratum text copied from layer at 8.50m depth from previous sheet)</i> ... pockets of firm grey clay (up to 20mm) from 9.00-9.50m depth.		(1.55)		
9.00	30	D								
9.00-9.45	31	U ₍₁₀₀₎	20 blows							
9.45	32	D								
9.50	2	ES	Tubx3							
9.50-10.00	33	U ₍₁₀₀₎					-8.63	10.05		
10.00	34	D				Firm friable dark brown to black pseudo-fibrous PEAT with layered fragments of reed.				
10.00-10.50	35	U ₍₁₀₀₎	25 blows							
10.20		HP	$c_u=60$					-9.08	10.50	
10.50	2	W				Medium dense grey slightly silty slightly gravelly fine to coarse SAND. Gravel is subangular medium flint. (Norwich Crag)				
10.50	3	ES	Tubx3							
10.50	36	D							(1.00)	
11.05-11.50	37	SPT	N=14				-10.08	11.50		
Borehole terminated at 11.50m depth.										

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:30
Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
All dimensions in metres									Scale: 1:50
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: SJ		Logged By: JWild		Checked By:	



STRUCTURAL SOILS

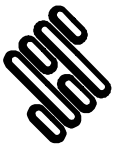
BOREHOLE LOG

Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH18	
Contract Ref: 722201		Start: 07.10.08 End: 07.10.08	Ground Level (m AOD): 2.05	National Grid Co-ordinate: E:647484.7 N:264029.5	
				Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend			
Depth	No	Type	Results									
0.20	1	D				MADE GROUND: Grass over pinkish grey sandy subangular to angular fine to coarse GRAVEL of limestone.	1.65	0.40				
0.50-1.00	1	B				MADE GROUND: Very dense yellowish brown slightly gravelly fine to coarse SAND with rare pockets (up to 20mm) of firm clay and fine gravel sized shell fragments. Gravel is fine to medium subangular flint.		(1.60)				
1.20-1.59	1	SPT(c)	4,6 / 9,16,20,5 for 15mm									
1.20	2	D										
1.70	3	D										
... ingress of water at 1.90m depth.							0.05	2.00				
2.50-3.00	2	B						MADE GROUND: Dense greyish brown gravelly fine to coarse SAND with occasional pockets of firm clay and metal nails. Gravel is subrounded to subangular medium to coarse flint.			(1.50)	
2.70	4	D										
3.20-3.65	2	SPT(c)	N=46									
3.50	1	W										
3.70	5	D				Medium dense grey slightly silty gravelly SAND with rare fine gravel sized shell fragments. Gravel is fine to coarse subrounded to rounded flint and chert.						
4.50-5.00	3	B										
4.70	6	D										
5.20-5.65	3	SPT(c)	N=19									
5.70	7	D										
Borehole terminated at 6.00m depth.							-3.95	6.00				

STRUCTURAL SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:30
Structural Soils Ltd, Head Office - Bristol, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.


Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
07/10/08		1.90	1.90	200	1.60					
07/10/08		3.50	3.20	200	1.90					
									1. Hand dug inspection pit from 0.00-1.20m depth. 2. Water added from 1.20m to 4.00m depth. 3. Groundwater strikes at 1.90m and 3.50m depth. 4. Backfilled with bentonite cement pellets on completion. 5. SPT test presented as 'as drilled' with no extrapolation of N value.	
									All dimensions in metres Scale: 1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: RJ		Logged By: JWild		Checked By:		



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH19	
Contract Ref: 722201		Start: 14.10.08 End: 14.10.08	Ground Level (m AOD): 1.60	National Grid Co-ordinate: E:647419.4 N:264029.9	
Sheet: 1 of 1					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
						MADE GROUND: Grass over brownish orange gravelly fine to medium SAND. Gravel is subangular to subrounded fine to coarse flint and occasional subangular concrete.		(0.95)	
						... concrete from 0.90m depth. Borehole terminated at 0.95m depth.	0.65	0.95	

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:30.
Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
						0.65	0.80	00:25	1. Inspection pit dug from 0.00-0.95m depth. 2. Borehole aborted at 0.95m depth due to obstruction, possibly concrete. 3. Backfilled with bentonite cement pellets on completion.	
						0.90	0.95	00:25		
All dimensions in metres								Scale: 1:50		
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: RJ		Logged By: JWild		Checked By: 



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH19A	
Contract Ref: 722201		Start: 14.10.08 End: 15.10.08	Ground Level (m AOD): 1.69	National Grid Co-ordinate: E:647424.3 N:264030.0	
				Sheet: 1 of 2	

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.20	1	D				MADE GROUND: Grass over pinkish grey sandy subangular to angular fine to coarse GRAVEL of limestone.	1.09	(0.60)	
0.60-1.10	1	B				MADE GROUND: Medium dense orangish brown silty gravelly fine to medium SAND with pockets of firm clay up to 30mm. Gravel is subangular fine shell fragments and fine to medium flint and medium brick.		0.60	
1.20-1.65	1	SPT(c)	N=27						
1.20	2	D							
1.70	3	D							
1.80	1	W							
2.50-3.00	2	B							
2.70	4	D						(4.50)	
3.20-3.65	2	SPT(c)	N=4			... becoming loose from 3.20m depth.			
3.70	5	D							
4.50-5.00	3	B							
4.70	6	D							
5.10	7	D					-3.42	5.10	
5.20-5.65	1	U ₍₁₀₀₎	20 blows			Soft slightly organic grey mottled brown to black silty CLAY with pseudo-fibrous plant remains up to 2mm diameter.	-3.62	5.30	
5.40	1	HP	c _u =40			Firm dark brown fibrous PEAT with abundant plant remains and reed fragments up to 3mm diameter.		(0.60)	
5.50	1	ES	Tubx3				-4.22	5.90	
5.85	8	D	15 blows			Soft light grey silty CLAY with some reed fragments up to 10mm diameter.			
5.90-6.35	2	U ₍₁₀₀₎				... becoming rare from 6.20m depth.		(1.40)	
6.55	9	D	15 blows						
6.60-7.05	3	U ₍₁₀₀₎				... dampness of strata from 7.10m depth.	-5.62	7.30	
7.25	10	D	15 blows			Spongy dark brown pseudo-fibrous PEAT with frequent plant remains and reed fragments.			
7.30-7.75	4	U ₍₁₀₀₎						(1.40)	
7.50	2	ES	Tubx3						
7.50	1	HP	c _u =40						
7.95	11	D	18 blows			... band of 0.10m soft grey clay at 8.10m depth.			
8.00-8.45	5	U ₍₁₀₀₎							
8.65	12	D	20 blows				-7.02	8.70	
8.70-9.15	6	U ₍₁₀₀₎				Description on next sheet			

STRUCTURAL SOILS, GINT, LIBRARY, GLIBCABLE PERCUSSION LOG | 722201_SIZWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:30. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
14/10/08		1.20	-	200	1.00				1. Inspection pit dug from 0.00-1.20m depth. 2. Water added from 1.20m to 3.00m depth. 3. Groundwater strikes at 1.20m and 10.10m depth. 4. Standpipe 50mm diameter installed to 8.80m depth.	
15/10/08		10.10	5.85	200	5.30					
All dimensions in metres								Scale:	1:50	
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: RJ		Logged By: JWild		Checked By:



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH19A	
Contract Ref: 722201		Start: 14.10.08 End: 15.10.08	Ground Level (m AOD): 1.69	National Grid Co-ordinate: E:647424.3 N:264030.0	
Sheet: 2 of 2					

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend		
Depth	No	Type	Results								
8.90	3	ES	Tubx3			Plastic dark brown mottled red and orange pseudo-fibrous PEAT with occasional plant remains and reed fragments up to 40mm diameter. <i>(stratum text copied from layer at 8.70m depth from previous sheet)</i>		(1.05)			
9.35	13	D	Tubx3 30 blows								
9.40	4	ES									
9.40-9.85	7	U ₍₁₀₀₎								-8.07	9.75
10.05-10.50	13	SPT	N=15						Spongy dark brown to black amorphous PEAT with occasional pseudo-fibrous plant remains. Medium dense grey slightly silty fine to medium SAND.	-8.12	9.80
10.05	14	D									
10.10	2	W					-8.82	10.50			
Borehole terminated at 10.50m depth.											

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:30. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
All dimensions in metres									Scale: 1:50
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: RJ		Logged By: JWild		Checked By: AGS	



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH20	
Contract Ref: 722201		Start: 14.10.08 End: 14.10.08	Ground Level (m AOD): 1.63	National Grid Co-ordinate: E:647368.3 N:264028.8	Sheet: 1 of 2

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend			
Depth	No	Type	Results									
0.20 0.30-0.80	1 1	D B				MADE GROUND: Grass over orangish brown slightly silty slightly gravelly fine to medium SAND with pockets of firm clay up to 40mm diameter. Gravel is subangular medium to coarse flint and fine shell fragments.	0.83	(0.80)				
0.80-1.20	2	B				MADE GROUND: Dense brown slightly gravelly silty fine to medium SAND with pockets of firm clay up to 30mm diameter. Gravel is subangular fine to medium shell fragments and rare subangular fine to medium flint.		(3.05)				
1.20-1.65 1.20	1 1	SPT(c) W	N=44									
1.70	3	D										
2.50-3.00 2.70	3 4	B D										
3.20-3.65	2	SPT(c)	N=32									
3.70 3.85	5 6	D D										
3.90-4.35 4.00 4.10	1 1 1	U ₍₁₀₀₎ ES HP	15 blows Tbx4+VLx4+Jx4 c _v =15					Very soft light grey slightly sandy silty CLAY with occasional pseudo-fibrous rootlets up to 2mm diameter.		-2.67	4.30	
4.55 4.60 4.60-5.05	7 2 2	D ES U ₍₁₀₀₎	Tbx4+VLx4+Jx4 8 blows					Spongy dark brown locally clayey pseudo-fibrous PEAT with plant remains and reed fragments up to 10mm diameter.		-3.17	4.80	
5.15 5.20-5.65	8 3	D U ₍₁₀₀₎	8 blows					Soft light grey silty CLAY with frequent pseudo-fibrous plant remains and reed fragments up to 5mm diameter. ... plant remains and reed fragments becoming rare from 5.20m depth.				
5.85 5.90-6.35	9 4	D U ₍₁₀₀₎	8 blows					... becoming very soft from 5.90m depth with no plant remains and dampness of strata.			(3.20)	
6.55 6.60-7.05	10 5	D U ₍₁₀₀₎	8 blows									
7.00 7.25 7.30-7.75	3 11 6	ES D U ₍₁₀₀₎	Tbx4+VLx4+Jx4 8 blows									
7.95 8.00-8.45 8.20 8.30 8.50 8.65 8.70-9.15	12 7 4 1 13 8	D U ₍₁₀₀₎ HP ES ES D U ₍₁₀₀₎	20 blows c _v =40 Tbx4+VLx4+Jx4 Tubx3 20 blows			Firm dark brown pseudo-fibrous PEAT with plant remains and reed fragments up to 10mm diameter.	-7.27	8.90				

STRUCTURAL SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:30. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
14/10/08	09:00	1.20	-	200	0.80				
14/10/08		10.75	4.00	200	4.30				
All dimensions in metres								Scale: 1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: RJ		Logged By: JWild		Checked By:	

1. Inspection pit dug from 0.00-1.20m depth.
2. Water added from 1.20m to 2.20m depth.
3. Groundwater strikes at 1.20m and 10.75m depth.
4. Backfilled with bentonite cement pellets on completion.



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH20	
Contract Ref: 722201		Start: 14.10.08 End: 14.10.08	Ground Level (m AOD): 1.63	National Grid Co-ordinate: E:647368.3 N:264028.8	
Sheet: 2 of 2					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
9.10		HP	$c_u=80$			Stiff friable dark brown mottled red orange and black amorphous PEAT with occasional pseudo-fibrous plant remains up to 1mm diameter, (<i>stratum text copied from layer at 8.90m depth from previous sheet</i>) ... no plant remains from 9.60m depth.			
9.35	14	D							
9.40-9.85	9	$U_{(100)}$	30 blows						
10.00	2	ES	Tubx3						
10.05	15	D							
10.10-10.50	10	$U_{(100)}$	25 blows						
10.50	5	ES	Tbx4+VLx4+Jx4						
10.75	2	W							
11.05-11.50	3	SPT	N=14						
								(0.75)	
							-9.87	11.50	
						Borehole terminated at 11.50m depth.			

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:30
Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
								All dimensions in metres		Scale: 1:50
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: RJ		Logged By: JWild		Checked By:		



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH21	
Contract Ref: 722201		Start: 23.10.08 End: 23.10.08	Ground Level (m AOD): 1.45	National Grid Co-ordinate: E:647321.3 N:264028.1	
				Sheet: 1 of 2	

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend	
Depth	No	Type	Results							
0.30	1	D				MADE GROUND: Grass over dense orangish brown silty gravelly fine to medium SAND with rare pockets of firm clay up to 30mm diameter. Gravel is subangular fine shell fragments and subangular to subrounded fine to medium siltstone.				
0.50-1.00	1	B				... becoming dark brown mottled orange from 2.70m depth. ... low content of subangular cobbles of flint up to 65mm from 2.80m depth. ... rare plant remains up to 2mm diameter from 2.90m depth.				
1.20-1.65	1	SPT(c)	N=37			... firm pockets of organic material up to 30mm from 3.60m depth.	-2.25	3.70		
1.20	2	D				POSSIBLE MADE GROUND: Dense dark brown mottled orange silty fine to medium SAND with rare subangular fine shell fragments.		(0.80)		
1.70	3	D				... bands of dark brown to black organic silty fine to medium clay from 4.35m depth.	-3.05	4.50		
1.80	1	W				Very soft light grey silty CLAY with rare reed fragments up to 5mm diameter.	-3.30	4.75		
2.60-3.00	2	B				Firm dark brown to black fibrous PEAT with occasional reed fragments and plant remains up to 5mm diameter.	-3.85	5.30		
2.70	4	D				Very soft light grey silty CLAY with rare reed fragments up to 5mm diameter and fine gravel sized shell fragments. ... sandy from 5.30m to 5.35m depth.		(2.60)		
3.20-3.65	2	SPT(c)	N=47			... dampness of strata and no organic material from 6.30m depth.				
3.70-4.20	3	B				Plastic dark brown pseudo-fibrous PEAT with occasional plant remains up to 2mm diameter.		(1.50)		
3.70	5	D				... pockets of soft grey clay up to 50mm diameter from 8.00m to 8.30m depth.				
4.35	6	D								
4.50-4.95	1	U ₍₁₀₀₎	25 blows							
4.80		HP	c _i =40							
5.00	1	ES	Tubx3							
5.15	7	D								
5.20-5.65	2	U ₍₁₀₀₎	20 blows							
5.85	8	D								
5.90-6.35	3	U ₍₁₀₀₎	15 blows							
6.55	9	D								
6.60-7.05	4	U ₍₁₀₀₎	10 blows							
7.25	10	D								
7.30-7.75	5	U ₍₁₀₀₎	15 blows							
7.95	11	D								
8.00-8.45	6	U ₍₁₀₀₎	15 blows							
8.20		HP	c _i =25							
8.50	2	ES	Tubx3							
8.65	12	D								
8.70-9.15	7	U ₍₁₀₀₎	25 blows							

STRUCTURAL SOILS, GINT, LIBRARY, GLIBCABLE PERCUSSION LOG | 722201_SIZWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:31. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
23/10/08		1.80	1.70	150	1.20				1. Inspection pit dug from 0.00-1.20m depth. 2. Water added from 1.20m to 2.00m depth. 3. Groundwater strikes at 1.80m and 11.00m depth. 4. Standpipe 50mm diameter installed to 9.00m depth.	
23/10/08		11.00	4.50	150	5.50					
All dimensions in metres								Scale:	1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: RJ		Logged By: JWild		Checked By:		



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH21	
Contract Ref: 722201		Start: 23.10.08 End: 23.10.08	Ground Level (m AOD): 1.45	National Grid Co-ordinate: E:647321.3 N:264028.1	
Sheet: 2 of 2					

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend	
Depth	No	Type	Results							
9.35 9.40-9.85	13 8	D U ₍₁₀₀₎	25 blows	 		Plastic dark brown pseudo-fibrous PEAT with occasional plant remains up to 2mm diameter. <i>(stratum text copied from layer at 7.90m depth from previous sheet)</i> Spongy friable black mottled orange amorphous PEAT.	-7.95	9.40		
10.00 10.05 10.10-10.55 10.30	3 14 9	ES D U ₍₁₀₀₎ HP	Tubx3 25 blows c _u =40			... becoming firm from 10.30m depth.	-9.10	10.55		
10.75 11.00 11.20-11.65	15 2 3	D W SPT	N=7			Loose grey slightly silty fine to medium SAND. (Norwich Crag)	-10.20	11.65		
Borehole terminated at 11.65m depth.										

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:31. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
All dimensions in metres								Scale: 1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: RJ		Logged By: JWild		Checked By: AGS	



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH22	
Contract Ref: 722201		Start: 29.10.08 End: 29.10.08	Ground Level (m AOD): 1.75	National Grid Co-ordinate: E:647212.9 N:264032.3	
Sheet: 1 of 2					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.20	1	D				<p>MADE GROUND: Grass over very dense orangish brown slightly gravelly silty fine to medium SAND with rare rootlets up to 3mm diameter. Gravel is subangular fine shell fragments, subangular to subrounded fine to medium flint and siltstone.</p> <p>... rare plant material up to 2mm diameter from 1.00m depth.</p> <p>... rare pockets of firm clay up to 30mm from 2.50m depth.</p> <p>... becoming medium dense at 3.50m depth.</p> <p>POSSIBLE MADE GROUND: Medium dense dark brown mottled orange slightly gravelly silty fine to medium SAND with rare pockets of soft brown clay up to 20mm. Gravel is subangular fine shell fragments and subangular to subrounded fine to coarse flint.</p> <p>Firm brown clayey fibrous PEAT with frequent plant remains and reed fragments up to 10mm diameter.</p> <p>Very soft light grey silty CLAY with reed fragments up to 10mm diameter and fine gravel sized shell fragments.</p> <p>... becoming damp with no plant material from 8.00m depth.</p>		(4.00)	
0.50	2	B							
0.50	3	B							
1.00	4	D							
1.50-1.67	5	SPT	2,10 / 50 for 15mm						
2.00	6	D							
2.50	7	B							
3.00	8	D							
3.50-3.95	9	SPT	N=24						
4.00	10	W							
4.00	11	D							
4.50	12	B							
5.00	13	D							
5.40	14	D							
5.40	15	U ₍₁₀₀₎	8 blows						
5.50	1	ES	Tubx3						
5.50	1	HP	c _u =40						
6.00	16	D							
6.00	17	U ₍₁₀₀₎	8 blows						
6.60	18	D							
6.60	19	U ₍₁₀₀₎	10 blows						
7.20	20	D							
7.20	21	U ₍₁₀₀₎	10 blows						
7.80	22	D							
7.80	23	U ₍₁₀₀₎	18 blows						
8.40	24	D							
8.40	25	U ₍₁₀₀₎	17 blows						

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:31. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
29/10/08		1.20	-	150	0.80	1.60	1.80	00:30	
1. Inspection pit dug from 0.00-1.20m depth. 2. Groundwater strike at 1.20m depth. 3. Backfilled with bentonite cement pellets on completion. 4. SPT test presented as 'as drilled' with no extrapolation of N value.									
All dimensions in metres								Scale: 1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: DS		Logged By: JWild		Checked By:	



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH22	
Contract Ref: 722201		Start: 29.10.08 End: 29.10.08	Ground Level (m AOD): 1.75	National Grid Co-ordinate: E:647212.9 N:264032.3	Sheet: 2 of 2

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
9.00	26	D	21 blows			Spongy friable black mottled orange amorphous PEAT.	-7.35	9.10	
9.00	27	U ₍₁₀₀₎							
9.60	28	D	18 blows			... pockets of soft grey clay up to 30mm diameter from 9.60m to 9.90m depth.		(1.45)	
9.60	29	U ₍₁₀₀₎							
10.00	2	ES	Tubx3						
10.20	30	D	23 blows			Dense grey slightly silty fine to medium SAND. (Norwich Crag)	-8.80	10.55	
10.20	31	U ₍₁₀₀₎							
10.80	32	D	N=31					(0.75)	
10.80-11.25	33	SPT							
						Borehole terminated at 11.30m depth.			

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:31. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
All dimensions in metres								Scale: 1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: DS		Logged By: JWild		Checked By:	



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH23	
Contract Ref: 722201		Start: 15.10.08 End: 15.10.08	Ground Level (m AOD): 2.20	National Grid Co-ordinate: E:647484.6 N:264046.9	
				Sheet: 1 of 2	

Samples and In-situ Tests				Water Backfill & Instru- mentation	Description of Strata	Reduced Level	Depth (Thick- ness)	Material Graphic Legend
Depth	No	Type	Results					
0.20	1	D			MADE GROUND: Grass over dense orangish brown fine to medium SAND with subangular fine gravel sized shell fragments and pockets of soft clay up to 30mm diameter and rare subrounded medium to coarse flint gravel.		(1.45)	
0.50-1.00	1	B						
1.20-1.65	1	SPT(c)	N=41					
1.20	2	D						
1.70	3	D						
2.30	1	W						
2.50-3.00	2	B						
2.70	4	D						
3.20-3.65	2	SPT	N=40					
3.70	5	D						
4.50-5.00	3	B						
4.70	6	D						
5.20-5.65	3	SPT(c)	N=10	... becoming medium dense at 5.20m depth			(4.25)	
5.70	7	D						
5.75-6.20	1	U ₍₁₀₀₎	15 blows	Soft grey slightly sandy silty CLAY.	-3.55	5.75		
5.80	HP	c _v =80		Stiff dark brown fibrous PEAT with plant remains and reed fragments up to 10mm diameter.	-3.75	5.95		
5.90	1	ES	Tbx4+VLx4+Jx4			(0.50)		
6.00	HP	c _v =30		Soft grey slightly organic silty CLAY with reed fragments up to 5mm diameter.	-4.25	6.45		
6.40	8	D						
6.45-6.90	2	U ₍₁₀₀₎	12 blows	Very soft grey mottled black silty CLAY with rare reed fragments up to 5mm diameter.				
7.00	2	ES	Tbx4+VLx4+Jx4	... no plant content and dampness from 6.60m depth.		(1.35)		
7.10	9	D						
7.15-7.60	3	U ₍₁₀₀₎	15 blows					
7.80	10	D						
7.85-8.30	4	U ₍₁₀₀₎	20 blows	Stiff dark brown mottled red pseudo-fibrous PEAT with plant remains up to 3mm diameter.				
7.90	HP	c _v =80				(1.40)		
8.00	3	ES	Tbx4+VLx4+Jx4					
8.50	11	D						
8.55-9.00	5	U ₍₁₀₀₎	20 blows					

STRUCTURAL SOILS, GINT, LIBRARY, GIBICABLE PERCUSSION LOG | 722201, SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:31. Structural Soils Ltd., Head Office - Bristol, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
15/10/08		2.30	2.20	200	1.90					
15/10/08		6.40	5.70	200	6.40					
15/10/08		9.75	6.80	200	5.60					
1. Inspection pit dug from 0.00-1.20m depth. 2. Water added from 1.20m to 2.50m depth. 3. Groundwater strikes at 2.30m, 6.40m and 9.75m depth. 4. Standpipe piezometer 19mm diameter installed to 7.20m depth.									All dimensions in metres Scale: 1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: RJ		Logged By: JWild		Checked By:		



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH23	
Contract Ref: 722201		Start: 15.10.08 End: 15.10.08	Ground Level (m AOD): 2.20	National Grid Co-ordinate: E:647484.6 N:264046.9	
Sheet: 2 of 2					

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend	
Depth	No	Type	Results							
8.90	4	ES	Tbx4+VLx4+Jx4			... 20mm band of firm grey silty clay at 8.90m depth.	-7.00	9.20		
8.90		HP	$c_u=80$			Medium dense grey slightly silty fine to medium SAND.				
9.20	12	D								
9.25-9.70	6	$U_{(100)}$	30 blows 0% recovery						(1.30)	
9.75	2	W								
10.05-10.50	4	SPT	N=19			Borehole terminated at 10.50m depth.	-8.30	10.50		

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:31. Structural Soils Ltd, Head Office - Bristol, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
All dimensions in metres								Scale: 1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: RJ		Logged By: JWild		Checked By:	



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH24	
Contract Ref: 722201		Start: 16.10.08 End: 16.10.08	Ground Level (m AOD): 2.59	National Grid Co-ordinate: E:647364.7 N:263967.2	
				Sheet: 1 of 2	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.20	1	D				MADE GROUND: Grass over medium dense orangish brown slightly gravelly slightly silty fine to medium SAND with rare pockets of firm clay up to 30mm and rootlets up to 2mm diameter. Gravel is subangular fine shell fragments, subrounded to rounded fine to medium siltstone and subangular to subrounded fine to medium flint.			
0.50-1.00	1	B							
1.20-1.65	1	SPT(c)	N=22						
1.20	2	D							
1.70	3	D							
2.50-3.00	2	B							
2.70	4	D							
3.20-3.60	2	SPT(c)	7,11 / 17,17,12,4 for 25mm						
3.30	1	W							
3.70	5	D							
4.50-5.00	3	B							
4.70	6	D							
5.20-5.65	3	SPT(c)	N=41						
5.70	7	D							
6.00-6.45	1	U ₍₁₀₀₎	17 blows						
6.00	8	D							
6.20		HP	c _u =25						
6.65	9	D							
6.70-7.15	2	U ₍₁₀₀₎	25 blows						
6.80		HP	c _u =60						
7.00	1	ES	Tubx3						
7.35	10	D							
7.40-7.80	3	U ₍₁₀₀₎	25 blows						
7.60		HP	c _u =80						
8.00	11	D							
8.00	2	ES	Tubx3						
8.05-8.50	4	U ₍₁₀₀₎	30 blows						
8.70	12	D							
8.75-9.20	5	U ₍₁₀₀₎	30 blows						

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:31. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
16/10/08		3.30	3.20	150	2.80	1.80	2.25	00:30	
16/10/08		9.20	6.00	150	6.30				

All dimensions in metres		Scale: 1:50
Method Used: Cable percussion	Plant Used: Dando 2000	Drilled By: RJ
		Logged By: JWild
		Checked By:

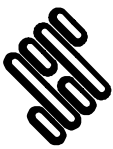


Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH24	
Contract Ref: 722201		Start: 16.10.08 End: 16.10.08	Ground Level (m AOD): 2.59	National Grid Co-ordinate: E:647364.7 N:263967.2	
				Sheet: 2 of 2	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
9.20	2	W	0% recovery			Medium dense grey slightly silty fine to medium SAND. (Norwich Crag) (<i>stratum text copied from layer at 8.90m depth from previous sheet</i>)	-7.41	(1.10)	
9.55-10.00	4	SPT	N=11						
10.00	13	D							
Borehole terminated at 10.00m depth.									

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:31. Structural Soils Ltd, Head Office - Bristol, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
All dimensions in metres								Scale: 1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: RJ		Logged By: JWild		Checked By:	



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH25	
Contract Ref: 722201		Start: 08.10.08 End: 09.10.08	Ground Level (m AOD): 1.80	National Grid Co-ordinate: E:647268.4 N:263981.9	
				Sheet: 1 of 2	

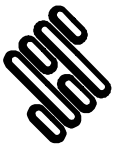
Samples and In-situ Tests				Water Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.30	1	D			MADE GROUND: Grass over medium dense orangish brown slightly gravelly silty fine to medium SAND with rare pockets of firm clay (up to 30mm) and fine gravel sized shell fragments. Gravel is subangular to subrounded fine to medium siltstone and flint.			
0.50-1.00	2	B						
1.00	3	D						
1.50-1.95	4	SPT	N=21					
1.95	5	D						
2.00	6	D						
2.50-3.00	7	B						
3.00	8	D						
3.50-3.95	9	SPT	N=33					
3.95	10	D						
4.00	11	D						
4.50-5.00	12	B						
5.00	13	D						
5.00-5.50	14	B						
5.50-6.00	15	U ₍₁₀₀₎ HP	20 blows c _i =45					
5.50								
6.00	16	D						
6.00-6.50	17	U ₍₁₀₀₎ HP	15 blows c _i =35					
6.20								
6.50	18	D						
6.50-7.00	19	U ₍₁₀₀₎	15 blows					
7.00	1	ES	Tubx3					
7.00	20	D						
7.00-7.50	21	U ₍₁₀₀₎ HP	12 blows c _i =70					
7.20								
7.50	2	ES	Tubx3					
7.50	22	D						
7.50-8.00	23	U ₍₁₀₀₎	15 blows					
8.00	24	D						
8.00-8.50	25	U ₍₁₀₀₎	12 blows					
8.00	3	ES	Tubx3					
8.15	4	ES	Tubx3					
8.50	26	D						
8.50-9.00	27	U ₍₁₀₀₎	12 blows					

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
09/10/08	09:00	6.00	6.00		Dry					
09/10/08	12:00	10.50	6.00		6.50					

All dimensions in metres Scale: **1:50**

Method Used: Cable percussion	Plant Used: Dando 2000	Drilled By: SJ	Logged By: JWild	Checked By:
--------------------------------------	-------------------------------	-----------------------	-------------------------	-------------

STRUCTURAL SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:31.
 Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH25	
Contract Ref: 722201		Start: 08.10.08 End: 09.10.08	Ground Level (m AOD): 1.80	National Grid Co-ordinate: E:647268.4 N:263981.9	
Sheet: 2 of 2					

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
9.00	28	D	20 blows	↓	[Hatched Pattern]	Spongy black amorphous PEAT. <i>(stratum text copied from layer at 8.95m depth from previous sheet)</i> Soft black slightly organic sandy SILT. Medium dense grey slightly silty fine to medium SAND with rare fine gravel sized shell fragments. (Norwich Crag)	-7.30	9.10	[Graphic Legend]
9.00-9.30	29	U ₍₁₀₀₎					-7.50	9.30	[Graphic Legend]
9.10	1	W							
9.30	30	D							
10.00-10.45	31	SPT	N=17				-8.70	10.50	[Graphic Legend]
Borehole terminated at 10.50 m depth.									

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:31. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
All dimensions in metres								Scale: 1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: SJ		Logged By: JWild		Checked By: AGS	



Contract: Sizewell C Supplementary Investigation			Client: British Energy			Borehole: BH26		
Contract Ref: 722201		Start: 21.10.08 End: 22.10.08	Ground Level (m AOD): 6.03		National Grid Co-ordinate: E:647508.5 N:263932.0		Sheet: 1 of 2	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend	
Depth	No	Type	Results							
0.20	1	D				POSSIBLE MADE GROUND: Grass over medium dense orangish brown slightly gravelly silty fine to medium SAND with rare pockets of soft clay up to 30mm. Gravel is subangular fine shell fragments and fine to medium flint.				
0.50-1.00	1	B								
1.20-1.65	1	SPT(c)	N=10							
1.20	2	D								
1.70	3	D								(4.10)
2.50-3.00	2	B								
2.70	4	D								
3.20-3.65	2	SPT(c)	N=23							
3.70	5	D								
4.00-4.45	3	SPT(c)	N=26							1.93
4.50-5.00	3	B						(1.10)		
4.70	6	D					0.83	5.20		
5.20-5.65	4	SPT(c)	N=35							
5.20-5.70	4	B								
5.70	7	D						(1.90)		
6.70	8	D					-1.08	7.10		
7.10	1	W								
7.20-7.65	5	SPT(c)	N=34							
7.20-7.70	5	B								
7.70	9	D						(2.90)		
8.70	10	D								

STRUCTURAL SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:32. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
22/10/08		7.10	7.10	150	6.10				1. Inspection pit dug from 0.00-1.20m depth. 2. Water added from 1.20m to 2.00m, and from 2.00m to 6.50m depth. 3. Groundwater strike at 7.10m depth. 4. Backfilled with bentonite cement pellets on completion.	
All dimensions in metres								Scale:	1:50	
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: RJ		Logged By: JWild		Checked By:



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH26	
Contract Ref: 722201		Start: 21.10.08 End: 22.10.08	Ground Level (m AOD): 6.03	National Grid Co-ordinate: E:647508.5 N:263932.0	
Sheet: 2 of 2					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
9.20-9.65 9.20-9.70	6 6	SPT(c) B	N=37			Dense brown slightly silty fine to medium SAND with rare subangular fine gravel sized shell fragments. (Norwich Crag) (<i>stratum text copied from layer at 7.10m depth from previous sheet</i>)	-3.98	10.00	
10.00	11	D				Borehole terminated at 10.00m depth.			

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:32. Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
All dimensions in metres								Scale:	1:50
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: RJ		Logged By: JWild		Checked By:	

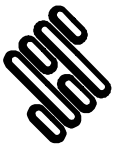


Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH27	
Contract Ref: 722201		Start: 21.10.08 End: 21.10.08	Ground Level (m AOD): 5.98	National Grid Co-ordinate: E:647428.5 N:263927.0	
Sheet: 1 of 2					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend						
Depth	No	Type	Results												
0.20	1	D				POSSIBLE MADE GROUND: Grass over medium dense orangish brown slightly gravelly slightly silty fine to medium SAND. Gravel is subangular fine shell fragments and subangular to subrounded fine to medium siltstone and flint.									
0.50-1.00	1	B													
1.20-1.65	1	SPT(c)	N=12												
1.20	2	D													
1.70	3	D													
2.50-3.00	2	B													
2.70	4	D													
3.70-4.15	2	SPT(c)	N=14												
3.70	5	D													
4.50-5.00	3	B													
4.70	6	D													
5.20-5.65	3	SPT(c)	N=26												
5.70	7	D				... pockets of soft brown clay up to 30mm from 3.70m depth.									
6.50-7.00	4	B													
6.70	8	D													
7.00	1	W													
7.20-7.65	4	SPT(c)	N=36												
7.70	9	D													
8.50-9.00	5	B													
8.70	10	D													

STRUCTURAL SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:32
Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
21/10/08		7.00	6.75	150	5.90				1. Inspection pit dug from 0.00-1.20m depth. 2. Water added from 1.20m to 12.00m depth. 3. Groundwater strike at 7.00m depth. 4. Backfilled with bentonite cement pellets on completion.	
All dimensions in metres								Scale:	1:50	
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: RJ		Logged By: JWild		Checked By:

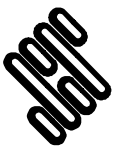


Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH27	
Contract Ref: 722201		Start: 21.10.08 End: 21.10.08	Ground Level (m AOD): 5.98	National Grid Co-ordinate: E:647428.5 N:263927.0	
				Sheet: 2 of 2	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend					
Depth	No	Type	Results											
9.20-9.65	5	SPT(c)	N=41			Dense orangish brown mottled dark grey silty fine to medium SAND with some subangular fine gravel sized shell fragments. (Norwich Crag) (<i>stratum text copied from layer at 7.00m depth from previous sheet</i>)								
9.70	11	D												
10.50-11.00	6	B												
10.70	12	D												
11.20-11.65	6	SPT(c)	N=43											
11.70	13	D												
12.50-13.00	7	B												
12.70	14	D												
13.20-13.65	7	SPT(c)	N=37											
13.70	15	D												
14.50-15.00	8	B												
14.70	16	D												
Borehole terminated at 15.00m depth.										-9.02	15.00			

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:32. Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
All dimensions in metres								Scale:	1:50
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: RJ		Logged By: JWild		Checked By:	



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH28	
Contract Ref: 722201		Start: 16.10.08 End: 16.10.08	Ground Level (m AOD): 2.59	National Grid Co-ordinate: E:647312.3 N:263929.5	
Sheet: 1 of 1					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.20	1	D			[Hatched Pattern]	POSSIBLE MADE GROUND: Grass over medium dense orangish brown slightly gravelly fine to medium SAND with rare pockets of soft clay up to 30mm and rootlets up to 2mm diameter. Gravel is subangular fine shell fragments, subrounded fine to medium siltstone and subangular to subrounded fine to medium flint.			[Hatched Pattern]
0.50-1.00	1	B					(1.60)		
1.20-1.65	1	SPT(c)	N=25						
1.20	2	D					0.99	1.60	
1.70	3	D							
2.50-3.00	2	B						(2.05)	
2.70	4	D							
3.20-3.65	2	SPT(c)	N=42					... becoming dense from 3.20m depth.	
3.70	5	D					-1.06	3.65	
3.90	6	D					-1.41	4.00	
4.00-4.45	1	U ₍₁₀₀₎	15 blows				[Cross-hatched Pattern]		
4.20	1	ES	Tbx4+VLx4+Jx4				(0.65)	[Cross-hatched Pattern]	
4.65	7	D						[Wavy Pattern]	
4.70-5.15	2	U ₍₁₀₀₎	15 blows			Spongy friable dark brown amorphous PEAT with occasional pseudo-fibrous plant remains up to 5mm diameter and fine gravel sized shell fragments.		(1.35)	[Wavy Pattern]
5.35	8	D				... becoming dark brown to black from 5.40m depth.			[Wavy Pattern]
5.40	2	ES	Tbx4+VLx4+Jx4					6.00	[Wavy Pattern]
5.40-5.85	3	U ₍₁₀₀₎	30 blows					(0.50)	[Wavy Pattern]
6.05-6.50	3	SPT	N=12			Medium dense grey slightly silty fine to medium SAND. (Norwich Crag)		(0.50)	[Dotted Pattern]
6.05	9	D						6.50	[Dotted Pattern]
						Borehole terminated at 6.50m depth.			

STRUCTURAL SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:32
Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
									1. Inspection pit dug from 0.00-1.20m depth. 2. Water added from 1.20m to 3.00m depth. 3. No groundwater encountered during excavation. 4. Backfilled with bentonite cement pellets on completion.	
All dimensions in metres								Scale:	1:50	
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: RJ		Logged By: JWild		Checked By:



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH29	
Contract Ref: 722201		Start: 22.10.08 End: 22.10.08	Ground Level (m AOD): 2.58	National Grid Co-ordinate: E:647215.4 N:263941.3	
Sheet: 1 of 1					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
						POSSIBLE MADE GROUND: Grass over grey sandy subrounded COBBLES up to 100mm of flint.		(0.80)	
						... unidentified service from 0.80m depth. Borehole terminated at 0.80m depth due to unidentified service.	1.78	0.80	

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
									1. Inspection pit dug from 0.00-0.80m depth. 2. Borehole aborted at 0.80m depth, due to encountering unidentified service. 3. Backfilled with bentonite cement pellets on completion.	
								All dimensions in metres	Scale: 1:50	
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: RJ		Logged By: JWild		Checked By: AGS

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:32.
 Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH29A	
Contract Ref: 722201		Start: 22.10.08 End: 22.10.08	Ground Level (m AOD): 2.46	National Grid Co-ordinate: E:647231.2 N:263950.6	
				Sheet: 1 of 2	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.20	1	D				MADE GROUND: Grass over pinkish brown slightly gravelly fine to medium SAND with rare rootlets up to 2mm diameter. Gravel is subangular fine flint, chert, subangular to subrounded siltstone and subangular fine to medium granite.	1.96	(0.50)	
0.50-0.80	1	B				MADE GROUND: Medium dense orangish brown slightly silty very gravelly fine to medium SAND with rare rootlets up to 2mm diameter. Gravel is subangular fine shell fragments and subangular to subrounded fine to medium flint. ... low content of subangular concrete cobbles up to 75mm from 1.70m depth.			
0.80-1.20	2	B							
1.00-1.00	2	SPT(c)	NP						
1.20-1.70	3	B							
1.70	3	D							
2.70	4	D				MADE GROUND: Medium dense orangish brown mottled grey slightly silty gravelly fine to medium SAND. Gravel is subangular fine shell fragments, subrounded fine to medium flint, subangular fine to coarse concrete. ... becoming slightly gravelly with a low content of subangular flint cobbles up to 70mm from 4.70m depth.	-0.25	2.70	
2.70-3.20	4	B							
2.90	1	W							
3.20-3.65	2	SPT(c)	N=18						
3.70	5	D							
4.70-5.20	5	B				Soft light brown mottled black silty CLAY with occasional pseudo-fibrous plant remains up to 2mm diameter. Firm dark brown fibrous PEAT with plant remains and reed fragments up to 10mm diameter. Firm organic greyish brown silty CLAY with frequent reed fragments up to 10mm diameter. Soft light grey mottled black silty CLAY with rare pseudo-fibrous plant remains and reed fragments.	-3.15	5.60	
4.70	6	D							
5.20-5.65	3	SPT(c)	N=17						
5.70	7	D							
5.75-6.20	1	U ₍₁₀₀₎	20 blows						
5.80	1	ES	Tbx4+VLx4+Jx4						
5.80	1	HP	c _i =60						
6.05	1	HP	c _i =60						
6.45-6.90	2	U ₍₁₀₀₎	20 blows						
6.50	2	ES	Tbx4+VLx4+Jx4						
7.10	9	D				Plastic friable dark brown amorphous PEAT with occasional plant remains and reed fragments up to 3mm diameter and rare fine gravel sized shell fragments. ... 0.10m band of soft brown pseudo-fibrous peat with frequent reed fragments up to 5mm diameter between 7.50m and 7.60m depth. ... becoming mottled orange and red from 8.70m depth.	-4.00	6.45	
7.15-7.60	3	U ₍₁₀₀₎	20 blows						
7.55	10	HP	c _i =30						
7.80	4	U ₍₁₀₀₎	20 blows						
7.85-8.30	3	ES	Tbx4+VLx4+Jx4						
8.50	11	D							
8.55-9.00	5	U ₍₁₀₀₎	20 blows						

STRUCTURAL SOILS_GINT_LIBRARY.GLBICABLE PERCUSSION LOG | 722201_SIZWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:32. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
22/10/08		2.90	2.70	150	2.10	1.20	1.60	00:15	
23/10/08	09:00	10.50	10.50	150	1.80	1.90	2.10	00:15	
						2.30	2.55	00:15	

All dimensions in metres | Scale: **1:50**

Method Used: Cable percussion	Plant Used: Dando 2000	Drilled By: RJ	Logged By: JWild	Checked By: AGS
--------------------------------------	-------------------------------	-----------------------	-------------------------	------------------------



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH29A	
Contract Ref: 722201		Start: 22.10.08 End: 22.10.08	Ground Level (m AOD): 2.46	National Grid Co-ordinate: E:647231.2 N:263950.6	
Sheet: 2 of 2					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
9.20 9.25-9.70	12 6	D U ₍₁₀₀₎	35 blows 0% recovery			Medium dense grey fine to medium SAND. (Norwich Crag)		(1.50)	
10.05-10.50	4	SPT	N=14				-8.05	10.50	
						Borehole terminated at 10.50m depth.			

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:32. Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
								All dimensions in metres	Scale: 1:50
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: RJ		Logged By: JWild		Checked By:	



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH30	
Contract Ref: 722201		Start: 20.10.08 End: 20.10.08	Ground Level (m AOD): 6.49	National Grid Co-ordinate: E:647479.7 N:263787.7	
Sheet: 1 of 1					

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend	
Depth	No	Type	Results							
0.10-0.60 0.20	1 1	B D				POSSIBLE MADE GROUND: Grass over dark orangish brown slightly gravelly slightly silty fine to medium SAND with rare subangular fine shell fragments and rootlets up to 2mm diameter. Gravel is subangular to subrounded fine to medium flint and fine to coarse siltstone. Dense orangish brown silty gravelly fine to medium SAND. Gravel is subangular fine shell fragments. (Norwich Crag)	5.89	(0.60) 0.60		
0.60-1.10	2	B								
1.20-1.65	1	SPT(c)	N=38							
1.70	3	D								
2.50-3.00 2.70	2 4	B D								
3.20-3.65	2	SPT(c)	N=34					2.84	3.65	
Borehole terminated at 3.65m depth.										

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:32.
 Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
20/10/08		3.65	3.65	150	Dry				1. Inspection pit dug from 0.00-1.20m depth. 2. Water added from 1.20m to 3.20m depth. 3. No groundwater encountered during excavation. 4. Standpipe piezometer 19mm diameter installed up to 3.20m depth.	
All dimensions in metres								Scale:	1:50	
Method Used:		Plant Used:		Drilled By:		Logged By:		Checked By:		
Cable percussion		Dando 2000		RJ		JWild		AGS		



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH31	
Contract Ref: 722201		Start: 22.10.08 End: 22.10.08	Ground Level (m AOD): 6.08	National Grid Co-ordinate: E:647377.8 N:263883.0	
Sheet: 1 of 1					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.20	1	D				POSSIBLE MADE GROUND: Grass over dense orangish brown slightly gravelly fine to medium SAND with rare pockets of soft clay up to 30mm and rootlets up to 2mm diameter. Gravel is subangular to subrounded siltstone and flint.			
0.50-1.00	1	B							
1.20-1.65	1	SPT(c)	N=36						
1.20	2	D							
1.70	3	D							
2.60-3.00	2	B							
2.70	4	D							
3.20-3.65	2	SPT	N=51						
3.65	5	D							
4.50-5.00	3	B							
4.70	6	D							
Borehole terminated at 5.00m depth.									

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:32. Structural Soils Ltd, Head Office - Bristol, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
20/10/08		5.00	5.00	150	Dry				1. Inspection pit dug from 0.00-1.20m depth. 2. Water added from 1.20m to 5.00m depth. 3. No groundwater encountered during excavation. 4. Backfilled with bentonite cement pellets on completion.	
All dimensions in metres								Scale:	1:50	
Method Used:		Plant Used:		Drilled By:		Logged By:		Checked By:		
Cable percussion		Dando 2000		RJ		JWild		AGS		



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH32	
Contract Ref: 722201		Start: 17.10.08 End: 17.10.08	Ground Level (m AOD): 3.72	National Grid Co-ordinate: E:647255.8 N:263906.4	
				Sheet: 1 of 1	

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
						POSSIBLE MADE GROUND: Grass over orangish brown fine to medium SAND with rare subangular fine gravel sized shell fragments. ... unidentified service from 0.60m depth. Borehole terminated at 0.60m depth due to unidentified service.	3.12	0.60	

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:32.
Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
									1. Inspection pit dug from 0.00-0.60m depth. 2. Borehole aborted at 0.60m depth, due to encountering unidentified service. 3. Backfilled with bentonite cement pellets on completion.	
All dimensions in metres								Scale:	1:50	
Method Used:		Plant Used:		Drilled By:		Logged By:		Checked By:		
Cable percussion		Dando 2000		RJ		JWild		AGS		



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH32A	
Contract Ref: 722201		Start: 17.10.08 End: 17.10.08	Ground Level (m AOD): 3.96	National Grid Co-ordinate: E:647271.4 N:263903.1	
Sheet: 1 of 1					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.20	1	D			MADE GROUND: Grass over medium dense dark orangish brown slightly gravelly fine to medium SAND with rare pockets (up to 30mm) of soft clay and rootlets up to 3mm diameter. Gravel is subangular fine shell fragments, subangular to subrounded fine to medium siltstone and subangular to subrounded fine to coarse granite.				
0.50-1.00	1	B				(2.00)			
1.20-1.65	1	SPT(c)	N=12						
1.20	2	D							
1.70	3	D				1.96	2.00		
2.50-3.00	2	B				POSSIBLE MADE GROUND: Medium dense dark brown mottled black silty very gravelly fine to medium SAND with a low cobble content of flint (<85mm) and occasional pockets up to 45mm of organic plant material. Gravel is subangular fine shell fragments and subangular to subrounded fine to coarse flint.			
2.70	4	D					(2.50)		
3.20-3.65	2	SPT(c)	N=13						
3.70	5	D							
4.50	6	D					-0.54		
4.60-5.05	1	U ₍₁₀₀₎	30 blows 0% recovery			-0.69	4.65		
5.25-5.70	3	SPT	N=13		Plastic dark brown amorphous PEAT. Medium dense greyish brown fine to medium SAND. (Norwich Crag)		(1.05)		
5.25	7	D				-1.74			5.70
Borehole terminated at 5.70m depth.									

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:32. Structural Soils Ltd, Head Office - Bristol, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
17/10/08	17:00	4.50	4.50	150	Dry					
20/10/08		5.70	4.50	150	Dry					
									1. Inspection pit dug from 0.00-1.20m depth. 2. Water added from 1.20m to 4.00m depth. 3. No groundwater encountered during excavation. 4. Backfilled with bentonite cement pellets on completion.	
						All dimensions in metres			Scale: 1:50	
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: RJ		Logged By: JWild		Checked By:



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH33	
Contract Ref: 722201		Start: 17.10.08 End: 17.10.08	Ground Level (m AOD): 2.77	National Grid Co-ordinate: E:647205.1 N:263888.8	
Sheet: 1 of 1					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.20	1	D				MADE GROUND: Grass over dense orangish brown slightly gravelly slightly silty fine to medium SAND with rare rootlets up to 2mm diameter. Gravel is subangular fine gravel sized shell fragments, subangular to subrounded fine to medium siltstone and flint.			
0.50-1.00	1	B					(1.30)		
1.20-1.65	1	SPT(c)	N=31			1.47	1.30		
1.20	2	D				MADE GROUND: Dense dark orangish brown slightly silty gravelly fine to medium SAND with rare rootlets up to 2mm diameter and pockets of firm grey clay up to 45mm. Gravel is subangular fine shell fragments and fine to medium subangular to subrounded flint.			
1.70	3	D							
2.40	1	W				<p>... subangular fine to medium concrete from 2.70m depth.</p> <p>... becoming very dense at 3.20m depth.</p> <p>... concrete from 4.80m depth.</p>	(3.70)		
2.50-3.00	2	B							
2.70	4	D							
3.20-3.65	2	SPT(c)	N=51						
3.70	5	D							
4.20	3	W							
4.50-5.00	3	B							
4.70	6	D							
						Borehole terminated at 5.00m depth.			

STRUCTURAL_SOILS_GINT_LIBRARY.GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:32. Structural Soils Ltd, Head Office - Bristol, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
17/10/08		2.40	2.20	150	1.90	4.80	5.00	00:30	1. Inspection pit dug from 0.00-1.20m depth. 2. Water added from 1.20m to 2.70m depth. 3. Groundwater strike at 2.40m depth. 4. Backfilled with arisings on completion.	
All dimensions in metres									Scale:	1:50
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: RJ		Logged By: JWild		Checked By:



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH34	
Contract Ref: 722201		Start: 20.10.08 End: 20.10.08	Ground Level (m AOD): 6.51	National Grid Co-ordinate: E:647418.9 N:263833.6	
Sheet: 1 of 1					

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.20	1	D			POSSIBLE MADE GROUND: Grass over dark orangish brown slightly gravelly fine to medium SAND with rare rootlets up to 2mm diameter. Gravel is subangular to subrounded fine to medium siltstone.		(1.05)		
0.50-1.00	1	B				5.46	1.05		
1.20-1.65	1	SPT(c)	N=36		Dense orangish brown silty gravelly fine to medium SAND. Gravel is subangular fine shell fragments. (Norwich Crag)		(2.60)		
1.20	2	D							
1.20-1.70	2	B							
2.50-3.00	3	B							
2.70	3	D							
3.20-3.65	2	SPT(c)	N=34				2.86	3.65	
Borehole terminated at 3.65m depth.									

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:33. Structural Soils Ltd, Head Office - Bristol, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
20/10/08		3.65	3.20	150	Dry				1. Inspection pit dug from 0.00-1.20m depth. 2. Water added from 1.20m to 3.20m depth. 3. No groundwater encountered during excavation. 4. Standpipe piezometer 19mm diameter installed to 3.20m depth.	
						All dimensions in metres				Scale: 1:50
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: RJ		Logged By: JWild		Checked By:		



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH35	
Contract Ref: 722201		Start: 20.10.08 End: 20.10.08	Ground Level (m AOD): 6.71	National Grid Co-ordinate: E:647366.6 N:263784.3	
Sheet: 1 of 1					

Samples and In-situ Tests				Water	Backfill	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
						MADE GROUND: Grass over orangish brown fine to medium SAND with rare subangular gravel sized shell fragments.		(1.20)	
						... unidentified service pipe from 1.20m depth. Borehole terminated at 1.20m depth, due to unidentified service pipe.	5.51	1.20	

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:33. Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
									1. Inspection pit dug from 0.00-1.20m depth. 2. Borehole aborted at 1.20m depth due to unidentified service encountered. 3. Backfilled with arisings on completion.	
All dimensions in metres								Scale: 1:50		
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: RJ		Logged By: JWild		Checked By:



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH36	
Contract Ref: 722201		Start: 15.10.08 End: 16.10.08	Ground Level (m AOD): 0.94	National Grid Co-ordinate: E:647279.3 N:264380.6	
Sheet: 1 of 2					

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.30	1	D				POSSIBLE MADE GROUND: Grass over orange brown slightly gravelly fine to medium SAND with subangular gravel sized shell fragments, rare rootlets up to 3mm diameter and 30mm sized pockets of soft orangish brown clay. Gravel is subangular to subrounded fine to coarse flint.			
0.50-1.00	2	B					(1.50)		
1.00	3	D					-0.56	1.50	
1.50-1.95	4	SPT(c)	N=6			Loose dark orangish brown silty gravelly fine to medium SAND with occasional 30mm sized pockets of soft orangish brown mottled grey clay, rare subangular fine to medium shell fragments and organic remains up to 4mm diameter. Gravel is subangular to subrounded fine to coarse flint.	-0.96	1.90	
1.50-2.00	5	B							
2.00-3.00	16	D				Soft grey organic slightly sandy silty CLAY with pseudo-fibrous plant remains up to 2mm diameter.			
2.00	6	D						(1.10)	
2.00	7	P							
3.00-3.40	17	D				Spongy dark brown fibrous PEAT with plant remains and reed fragments up to 10mm diameter.	-2.06	3.00	
3.00	8	P							
						No recovery.		(0.60)	
							-3.06	4.00	
4.00-5.00	18	B				Plastic black pseudo-fibrous PEAT with plant remains and reed fragments up to 5mm diameter.			
4.00	9	P						(1.70)	
5.00	10	P							
5.00-5.70	19	B							
							-4.76	5.70	
6.00	11	P				Plastic black amorphous PEAT with occasional fine gravel sized shell fragments.			
6.00-7.00	20	D						(2.30)	
7.00-8.00	21	P							
							-7.06	8.00	
8.50	13	D				... becoming slightly sandy from 7.90m. Medium dense grey fine to medium SAND. (Norwich Crag)		(1.50)	

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:33. Structural Soils Ltd., Head Office - Bristol, The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
15/10/08		1.20	-	200	1.20					
16/10/08		8.20	3.00	200	5.00					
									1. Inspection pit dug from 0.00-1.20m depth. 2. Seepage at 1.20m depth. 3. Groundwater strike at 8.20m depth. 4. Standpipe piezometer 19mm diameter installed to 7.80m depth.	
									All dimensions in metres Scale: 1:50	
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: SJ		Logged By: JWild		Checked By:

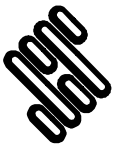


Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH36	
Contract Ref: 722201		Start: 15.10.08 End: 16.10.08	Ground Level (m AOD): 0.94	National Grid Co-ordinate: E:647279.3 N:264380.6	
Sheet: 2 of 2					

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
9.00 9.00-9.45	1 14	W SPT	N=10			Medium dense grey fine to medium SAND. (Norwich Crag) (<i>stratum text copied from layer at 8.00m depth from previous sheet</i>)	-8.56	9.50	
Borehole terminated at 9.50m depth.									

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:33. Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
All dimensions in metres								Scale:	1:50
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: SJ		Logged By: JWild		Checked By:	



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH37	
Contract Ref: 722201		Start: 20.10.08 End: 20.10.08	Ground Level (m AOD): 1.72	National Grid Co-ordinate: E:647208.4 N:264296.1	
Sheet: 1 of 1					

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.30	1	D			MADE GROUND: Grass over orangish brown slightly gravelly fine to medium SAND with rare subangular gravel sized shell fragments, rootlets up to 3mm diameter and 30mm sized pockets of soft brown clay. Gravel is subangular to subrounded fine to coarse flint, slag and a 250mm piece of plastic with a low cobble content of flint up to 95mm diameter.				
0.50-1.00	2	B				(1.50)			
1.00	3	D				0.22	1.50		
1.50-1.95	4	SPT(c)	N=8		Loose dark orange brown slightly silty very sandy GRAVEL. Gravel is subangular to subrounded fine to coarse flint and rare subangular fine to medium shell fragments.				
1.50-2.00	5	B				(1.20)			
2.00	6	D				-0.98	2.70		
2.70-3.00	7	B			Soft brown PEAT. (Drillers description)				
3.00	8	D							
3.00-3.50	9	U ₍₁₀₀₎	12 blows						
3.50	10	D							
3.50-4.00	11	U ₍₁₀₀₎	15 blows						
4.00	12	D							
4.00-4.50	13	U ₍₁₀₀₎	15 blows						
4.50	14	D							
4.50-5.00	15	U ₍₁₀₀₎	15 blows						
5.00	16	D							
5.00-5.50	17	U ₍₁₀₀₎	15 blows						
5.50	18	D							
5.50-6.00	19	U ₍₁₀₀₎	15 blows						
6.00	20	D							
6.00-6.50	21	U ₍₁₀₀₎	15 blows						
6.50	22	D							
6.50-7.00	23	U ₍₁₀₀₎	12 blows						
7.00	24	D							
7.00-7.50	25	U ₍₁₀₀₎	30 blows						
7.50	26	D				-5.68	7.40		
8.00	1	W			Medium dense grey fine to medium SAND. (Norwich Crag)				
8.00	27	D				(1.60)			
8.50-8.95	28	SPT	N=10				-7.28		9.00

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:33. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Borehole terminated at 9.00m depth.			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
20/10/08		7.50	3.00	200	7.50					
1. Inspection pit dug from 0.00-1.20m depth. 2. Groundwater strike at 7.50m depth. 3. Standpipe piezometer 19mm diameter installed up to 7.00m depth.									All dimensions in metres Scale: 1:50	
Method Used: Cable percussion			Plant Used: Dando 2000			Drilled By: SJ		Logged By: JWild		Checked By:



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH38	
Contract Ref: 722201		Start: 16.10.08 End: 17.10.08	Ground Level (m AOD): 1.65	National Grid Co-ordinate: E:647134.3 N:264215.0	
Sheet: 1 of 1					

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend	
Depth	No	Type	Results							
0.30	1	D				MADE GROUND: Grass over loose orangish brown silty gravelly fine to medium SAND with rare subangular gravel sized shell fragments and rootlets up to 3mm diameter. Gravel is subangular to subrounded fine to coarse flint and concrete with a low cobble content of concrete up to 190mm diameter.				
0.50-1.00	2	B								
1.00	3	D				... becoming dark orange brown and gravelly from 1.50m depth.				
1.20	1	W								
1.50-1.95	4	SPT(c)	N=8							
1.50-2.00	5	B								
2.00	6	D								
2.50-3.00	11	B				MADE GROUND: Medium dense dark orange brown slightly gravelly fine to medium SAND with rare subangular gravel sized shell fragments. Gravel is subangular to subrounded fine to coarse flint and concrete.	-1.85	3.50		
3.00	7	D								
3.50-3.95	8	SPT(c)	N=15			MADE GROUND: Loose dark orange brown slightly gravelly slightly silty fine to medium SAND with rare subangular gravel sized shell fragments and 50mm sized pockets of soft brown grey clay. Gravel is subangular to subrounded fine to coarse flint and concrete with a low cobble content of concrete up to 160mm diameter.				
3.50-4.00	9	B								
4.00	10	D								
4.50-5.00	12	B				Spongy dark brown pseudo-fibrous PEAT with plant remains and reed fragments up to 12mm diameter.	-2.85	4.50		
5.00	13	D								
5.50-5.95	14	SPT	N=4			Plastic friable black sandy amorphous PEAT with occasional fine gravel sized shell fragments.				
5.80-6.00	16	B								
5.95	15	D				Medium dense grey slightly silty fine to medium SAND. (Norwich Crag)	-4.15	5.80		
6.00-6.50	17	U ₍₁₀₀₎	12 blows							
6.50	18	D				Medium dense grey slightly silty fine to medium SAND. (Norwich Crag)	-5.15	6.80		
7.00	20	D								
7.00-7.50	21	U ₍₁₀₀₎	15 blows			Medium dense grey slightly silty fine to medium SAND. (Norwich Crag)				
7.50	22	D								
7.50-8.00	23	U ₍₁₀₀₎	20 blows			Medium dense grey slightly silty fine to medium SAND. (Norwich Crag)	-6.35	8.00		
8.00	2	W								
8.00	24	D				Medium dense grey slightly silty fine to medium SAND. (Norwich Crag)				
8.50-8.95	25	SPT	N=13							
							-7.35	9.00		

STRUCTURAL SOILS, GINT, LIBRARY, GLIBCABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:33. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Borehole terminated at 9.00m depth. Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
16/10/08		1.20	-	200	1.20					
17/10/08		8.00	6.00	200	3.80					
All dimensions in metres									Scale: 1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: SJ		Logged By: JWild		Checked By:		

1. Inspection pit dug from 0.00-1.20m depth.
2. Groundwater strikes at 1.20m and 8.00m depth.
3. Standpipe piezometer 19mm diameter installed up to 7.80m depth.



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH39	
Contract Ref: 722201		Start: 21.10.08 End: 21.10.08	Ground Level (m AOD): 1.63	National Grid Co-ordinate: E:647057.1 N:264123.0	
				Sheet: 1 of 2	

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
0.30	1	D				MADE GROUND: Grass over orange brown slightly gravelly fine to medium SAND with rare subangular gravel sized shell fragments and 30mm sized pockets of soft brown clay. Gravel is angular to subrounded fine to coarse concrete, flint, sandstone and mudstone.			
0.50-1.00	2	B					(1.50)		
1.00	3	D					0.13	1.50	
1.50-1.95	4	SPT(c)	N=10			Medium dense orange brown mottled grey slightly gravelly slightly silty fine to medium SAND with rare subangular fine to medium shell fragments. Gravel is subangular to subrounded fine to coarse sandstone and mudstone.			
1.50-2.00	5	B					(1.00)		
2.00	6	D				Dark orange brown silty fine to medium SAND with rare subangular gravel sized shell fragments and 45mm sized pockets of firm grey clay.			
2.50-3.00	7	B					-0.87	2.50	
3.50	1	W				Very loose dark orange brown mottled grey slightly silty fine to medium SAND with rare subangular gravel sized shell fragments and organic remains up to 3mm diameter. ... becoming silty from 4.50m depth.			
3.50-3.95	9	SPT(NR)	N=1						
3.50-4.00	10	B							
4.00	11	D					-1.87	3.50	
4.50-5.00	12	B				Soft grey slightly organic silty CLAY with pseudo-fibrous plant remains and reed fragments up to 3mm diameter.			
5.00	13	D					(2.20)		
5.50-5.95	14	SPT	N=4			Firm black mottled brown fibrous PEAT with plant remains and reed fragments up to 5mm diameter.			
5.95	15	D					-4.07	5.70	
6.00-7.00	16	P				Firm grey organic sandy silty CLAY with frequent plant remains and reed fragments up to 15mm diameter.			
6.00-6.50	24	D					-4.87	6.50	
6.20	HP	$c_u=25$				Firm black mottled brown pseudo-fibrous PEAT with plant remains and reed fragments up to 20mm diameter.			
6.50-6.60	25	D					-4.97	6.60	
6.50	HP	$c_u=60$				Plastic locally friable black amorphous PEAT.			
6.60-7.00	26	D					-5.47	7.10	
6.70	HP	$c_u=50$				Firm black mottled brown pseudo-fibrous PEAT with plant remains and reed fragments up to 20mm diameter.			
7.00-8.00	17	P					-6.07	7.70	
7.10-7.70	27	B				Plastic locally friable black amorphous PEAT.			
7.20	HP	$c_u=60$					-6.07	7.70	
8.00-8.50	18	$U_{(100)}$	30 blows			Plastic locally friable black amorphous PEAT.			
8.00-8.50	28	B					(1.30)		
8.50	19	D				Plastic locally friable black amorphous PEAT.			
8.50-9.20	20	P					-7.37	9.00	

STRUCTURAL SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:33. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
21/10/08		2.00	2.00	200	2.00				
21/10/08		9.20	6.00	200	6.10				
									1. Inspection pit dug from 0.00-1.20m depth. 2. Groundwater strikes at 2.00m and 9.20m depth. 3. Standpipe piezometer 19mm diameter installed up to 8.80m depth.
						All dimensions in metres			Scale: 1:50
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: SJ		Logged By: JWild		Checked By:	



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH39	
Contract Ref: 722201		Start: 21.10.08 End: 21.10.08	Ground Level (m AOD): 1.63	National Grid Co-ordinate: E:647057.1 N:264123.0	
				Sheet: 2 of 2	

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
9.20	21	D	N=14		[Hatched Box]	Medium dense grey fine to medium SAND. (Norwich Crag)	-8.37	10.00	[Dotted Box]
9.50	2	W							
9.50-9.95	22	SPT							
10.00	23	D				Borehole terminated at 10.00m depth.			

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:33. Structural Soils Ltd, Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
All dimensions in metres								Scale: 1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: SJ		Logged By: JWild		Checked By:	



Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH40	
Contract Ref: 722201		Start: 23.10.08 End: 24.10.08	Ground Level (m AOD): 3.96	National Grid Co-ordinate: E:647047.7 N:264016.0	
Sheet: 1 of 2					

Samples and In-situ Tests				Water Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results					
0.30	1	D			MADE GROUND: Grass over orange brown slightly gravelly fine to medium SAND with rare subangular fine gravel sized shell fragments, rootlets up to 18mm diameter and 25mm sized pockets of soft brown clay. Gravel is subangular to subrounded fine to coarse sandstone, mudstone, flint and granite.	2.46	(1.50)	
0.50-1.00	2	B						
1.00	3	D			Medium dense dark orange brown slightly gravelly slightly silty fine to medium SAND with rare subangular fine gravel sized shell fragments, rootlets up to 5mm diameter and 25mm sized pockets of soft brown clay. Gravel is subangular to subrounded fine to coarse mudstone.	0.46	1.50	
1.50-1.95	4	SPT(c)	N=11					
1.50-2.00	5	B			Loose dark orange brown mottled grey slightly gravelly silty fine to medium SAND with rare subangular fine gravel sized shell fragments and 20mm sized pockets of soft grey clay. Gravel is subangular to subrounded fine to coarse mudstone.	-2.54	3.50	
2.00	6	D						
2.50-3.00	7	B			... becoming medium dense from 5.50m depth.	-3.24	(3.00)	
3.00	8	D						
3.50-3.95	9	SPT(c)	N=6		Medium dense dark orange mottled grey silty fine to medium SAND with rare fine gravel sized shell fragments.	-3.84	6.50	
3.50-4.00	10	B						
4.00	11	D			Firm dark brown fibrous PEAT with plant remains and reed fragments up to 15mm diameter.	-3.84	7.20	
4.50-5.00	12	B						
5.00	13	D			Soft grey organic silty CLAY with plant remains and reed fragments up to 10mm and occasional fine gravel sized shell fragments.	-3.84	7.80	
5.50-5.95	14	SPT	N=25					
5.95	15	D				-3.84	7.80	
6.00	16	D						
6.50-7.00	17	B			-3.84	7.80		
7.00	18	D						
7.20-7.50	19	B			-3.84	7.80		
7.50	20	P						
7.50-7.70	27	D			-3.84	7.80		
7.60	HP							
7.80-8.40	28	B	c _u =60		-3.84	7.80		
8.50	21	P						
8.50-9.20	29	B			-3.84	(2.20)		

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:33. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks	
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)		
24/10/08	08:00	7.50	7.50	200	Dry				1. Inspection pit dug from 0.00-1.20m depth. 2. Groundwater strike at 12.20m depth. 3. Standpipe 50mm diameter installed up to 16.00m depth.	
24/10/08		12.20	12.00	200	4.60					
All dimensions in metres								Scale:	1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: SJ		Logged By: JWild		Checked By:		

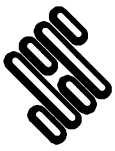


Contract: Sizewell C Supplementary Investigation		Client: British Energy		Borehole: BH40	
Contract Ref: 722201		Start: 23.10.08 End: 24.10.08	Ground Level (m AOD): 3.96	National Grid Co-ordinate: E:647047.7 N:264016.0	
Sheet: 2 of 2					

Samples and In-situ Tests				Water	Backfill & Instrumentation	Description of Strata	Reduced Level	Depth (Thickness)	Material Graphic Legend
Depth	No	Type	Results						
9.25 9.30-10.00	22 30	P B				Soft grey organic silty CLAY with plant remains and reed fragments up to 10mm and occasional fine gravel sized shell fragments. (<i>stratum text copied from layer at 7.80m depth from previous sheet</i>)	-6.04	10.00	
10.00-10.20	31	D		Firm dark brown fibrous PEAT with plant remains and reed fragments up to 5mm diameter.		-6.29	10.25		
10.25	23	P		Soft organic grey silty CLAY with plant remains up to 3mm diameter.		-6.44	10.40		
10.40-11.00	32	B				Spongy black pseudo-fibrous PEAT with plant remains and reed fragments up to 10mm diameter.	-7.04	11.00	
				Firm friable black amorphous PEAT.			(1.00)		
11.25 11.30-11.70	24 33	P B						(12.00)	
								(5.00)	
12.50-12.95 12.50-13.00	25 26	SPT(c) B	N=11					(17.00)	
Borehole terminated at 17.00m depth.									

STRUCTURAL_SOILS_GINT_LIBRARY_GLBICABLE PERCUSSION LOG | 722201_SIZEWELL_C_SUPPLEMENTARY INVESTIGATION.GPJ - v8_02 | 01/04/09 - 16:33. Structural Soils Ltd., Head Office - Bristol: The Old School, Stillhouse Lane, Bedminster, Bristol, BS3 4EB. Tel: 0117-947-1000, Fax: 0117-947-1004, Web: www.soils.co.uk, Email: admin@soils.co.uk.

Boring Progress and Water Observations						Chiselling			General Remarks
Date	Time	Borehole Depth	Casing Depth	Borehole Diameter (mm)	Water Depth	From	To	Duration (hh:mm)	
All dimensions in metres								Scale: 1:50	
Method Used: Cable percussion		Plant Used: Dando 2000		Drilled By: SJ		Logged By: JWild		Checked By:	



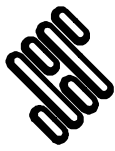
STANDARD PENETRATION TEST SUMMARY TABLE

Contract: Sizewell C Supplementary Investigation					Client: British Energy					Job No: 722201
Exploratory Position ID	Depth (m)	Hole Dia (mm)	Casing Depth (m)	Water Depth (m)	Seating Drive		Test Drive			Comments
					Blows	Pen (mm)	Blows	R (mm)	Result	
BH1	1.20		1.20		4,5	150	6,7,8,12		N=33	SPT(c)
	3.20		3.20	2.20	1,2	150	2,2,3,2		N=9	SPT(c)
	4.30		4.30		1,0	150	1,0,1,0		N=2	
	9.00		5.00	5.50	1,0	150	1,0,1,0		N=2	
BH2	1.20		1.20		1,2	150	5,10,10,10		N=35	SPT(c)
	3.20		3.20		1,1	150	0,0,1,0		N=1	SPT(c)
BH3	1.50				3,4	150	4,5,6,5		N=20	
	3.50				0,0	150	0,0,0,1		N=1	
	5.50				1,1	150	1,2,1,2		N=6	SPT(c)
	9.40				1,1	150	1,1,1,1		N=4	
BH4	1.20		1.20	Dry	2,4	150	5,4,6,7		N=22	SPT(c)
	3.20		3.20	2.80	2,3	150	5,6,5,6		N=22	SPT(c)
	5.20		5.20	2.60	1,2	150	1,1,1,0		N=3	SPT(c)
	10.00		5.75	4.30	1,1	150	1,1,1,0		N=3	
BH5	1.20		1.20	1.10	2,3	150	2,2,4,5		N=13	SPT(c)
	3.20		3.20	1.70	1,0	150	1,0,1,0		N=2	
	5.20		5.20	2.00	1,1	150	1,0,1,0		N=2	SPT(c)
	9.05		5.75	3.60	1,0	150	0,0,0,0		N=0	
BH6	1.50		1.50		1,2	150	1,2,1,2		N=6	
	3.50		3.50		2,2	150	1,2,3,4		N=10	
	8.50		4.50		1,2	150	2,1,2,3		N=8	
BH7	1.50		1.50		1,1	150	1,1,1,1		N=4	
	3.50				0,0	150	0,1,0,1		N=2	
	9.50		8.50		2,3	150	2,3,3,4		N=12	
BH8	1.20		1.20	Dry	2,4	150	6,8,6,4		N=24	SPT(c)

Notes:

1. Tests carried out in accordance with BS1377: Part 9: 1990: 3.3.
2. Reported blows are for 75mm penetration unless indicated "+".
3. Where full test drive was not achieved, actual penetration (R) and total test drive blows are reported.
4. Tests carried out using a split spoon sampler unless noted as CPT in comments column.





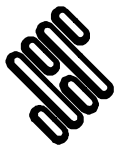
STANDARD PENETRATION TEST SUMMARY TABLE

Contract: Sizewell C Supplementary Investigation					Client: British Energy					Job No: 722201
Exploratory Position ID	Depth (m)	Hole Dia (mm)	Casing Depth (m)	Water Depth (m)	Seating Drive		Test Drive			Comments
					Blows	Pen (mm)	Blows	R (mm)	Result	
BH8	3.20		3.20	2.40	2,3	150	3,4,5,6		N=18	SPT(c)
	10.60		5.00	3.60	1,2	150	4,4,3,3		N=14	
BH9	1.20		1.20	Dry	8,8	150	7,4,3,3		N=17	SPT(c)
	3.20		3.20	1.90	1,2	150	1,1,1,1		N=4	SPT(c)
	9.55		4.00	3.20	1,2	150	1,1,1,1		N=4	
BH10	1.50				1,2	150	1,2,1,1		N=5	
BH10A	1.50		1.50		2,1	150	3,2,2,2		N=9	
	3.50		3.50		0,1	150	1,2,1,2		N=6	
	9.00				3,2	150	3,3,2,3		N=11	
BH11	1.50				1,0	150	0,1,0,0		N=1	
	3.50				1,1	150	2,4,5,4		N=15	
	11.50				2,2	150	2,4,4,6		N=16	
BH12	1.50				1,1	150	2,3,5,4		N=14	
	3.50				2,3	150	4,4,5,5		N=18	
BH13A	1.50				0,2	150	3,5,5,6		N=19	
	3.50				1,2	150	3,3,4,3		N=13	
	9.90				1,4	150	7,11,18,14+	255	1,4 / 7,11,18,14	
										for 30mm
BH14	1.50				1,2	150	3,2,2,2		N=9	
	3.50				1,3	150	2,2,2,3		N=9	
	9.60				1,1	150	3,3,5,5		N=16	
BH15A	1.20		1.20		5,8	150	10,12,14,16		N=52	SPT(c)
	3.20		3.20	2.40	4,7	150	8,10,10,12		N=40	SPT(c)
BH16	1.50		1.50		2,6	150	7,9,12,17		N=45	

Notes:

1. Tests carried out in accordance with BS1377: Part 9: 1990: 3.3.
2. Reported blows are for 75mm penetration unless indicated "+".
3. Where full test drive was not achieved, actual penetration (R) and total test drive blows are reported.
4. Tests carried out using a split spoon sampler unless noted as CPT in comments column.





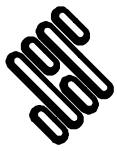
STANDARD PENETRATION TEST SUMMARY TABLE

Contract: Sizewell C Supplementary Investigation					Client: British Energy					Job No: 722201
Exploratory Position ID	Depth (m)	Hole Dia (mm)	Casing Depth (m)	Water Depth (m)	Seating Drive		Test Drive			Comments
					Blows	Pen (mm)	Blows	R (mm)	Result	
BH16	3.50		3.50	3.00	3,4	150	7,10,16,16		N=49	
	11.05		5.20	4.50	1,1	150	1,2,2,3		N=8	
BH17	1.50				3,6	150	9,8,9,11		N=37	SPT(c)
	3.50				2,4	150	4,2,1,1		N=8	
	11.05				1,1	150	2,3,4,5		N=14	
BH18	1.20				4,6	150	9,16,20,5+	240	4,6 / 9,16,20,5	SPT(c)
									for 15mm	
	3.20				5,8	150	9,11,12,14		N=46	SPT(c)
	5.20				4,6	150	4,5,4,6		N=19	SPT(c)
BH19A	1.20				3,4	150	5,7,7,8		N=27	SPT(c)
	3.20				2,2	150	1,1,1,1		N=4	SPT(c)
	10.05				2,4	150	3,4,4,4		N=15	
BH20	1.20				3,5	150	8,10,12,14		N=44	SPT(c)
	3.20				4,6	150	8,10,8,6		N=32	SPT(c)
	11.05				1,2	150	2,3,4,5		N=14	
BH21	1.20				4,7	150	8,9,9,11		N=37	SPT(c)
	3.20				5,7	150	10,12,12,13		N=47	SPT(c)
	11.20				1,1	150	1,1,2,3		N=7	
BH22	1.50				2,10	150	50+	15	2,10 / 50	
									for 15mm	
	3.50				1,1	150	2,5,8,9		N=24	
	10.80				2,6	150	6,8,8,9		N=31	
BH23	1.20				5,6	150	8,9,11,13		N=41	SPT(c)
	3.20				4,6	150	8,10,10,12		N=40	
	5.20				2,3	150	2,3,2,3		N=10	SPT(c)

Notes:

1. Tests carried out in accordance with BS1377: Part 9: 1990: 3.3.
2. Reported blows are for 75mm penetration unless indicated "+".
3. Where full test drive was not achieved, actual penetration (R) and total test drive blows are reported.
4. Tests carried out using a split spoon sampler unless noted as CPT in comments column.





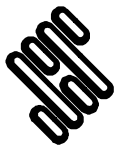
STANDARD PENETRATION TEST SUMMARY TABLE

Contract: Sizewell C Supplementary Investigation					Client: British Energy					Job No: 722201
Exploratory Position ID	Depth (m)	Hole Dia (mm)	Casing Depth (m)	Water Depth (m)	Seating Drive		Test Drive			Comments
					Blows	Pen (mm)	Blows	R (mm)	Result	
BH23	10.05				2,4	150	4,5,5,5		N=19	
BH24	1.20				2,4	150	4,5,7,6		N=22	SPT(c)
	3.20				7,11	150	17,17,12,4+	250	7,11 / 17,17,12,4	SPT(c)
										for 25mm
	5.20				4,8	150	9,10,11,11		N=41	SPT(c)
	9.55				1,2	150	2,3,2,4		N=11	
BH25	1.50		1.50		1,2	150	4,5,6,6		N=21	
	3.50		3.50		2,3	150	5,7,10,11		N=33	
	10.00		6.00		2,3	150	3,4,5,5		N=17	
BH26	1.20				2,3	150	2,3,2,3		N=10	SPT(c)
	3.20				3,4	150	5,6,6,6		N=23	SPT(c)
	4.00				3,5	150	5,6,7,8		N=26	SPT(c)
	5.20				4,6	150	7,8,10,10		N=35	SPT(c)
	7.20				3,7	150	7,8,10,9		N=34	SPT(c)
	9.20				4,6	150	7,9,10,11		N=37	SPT(c)
BH27	1.20				3,3	150	2,3,4,3		N=12	SPT(c)
	3.70				3,3	150	2,3,4,5		N=14	SPT(c)
	5.20				3,4	150	5,7,7,7		N=26	SPT(c)
	7.20				4,6	150	7,9,10,10		N=36	SPT(c)
	9.20				5,9	150	9,10,10,12		N=41	SPT(c)
	11.20				6,9	150	10,11,10,12		N=43	SPT(c)
	13.20				5,7	150	8,9,9,11		N=37	SPT(c)
BH28	1.20				4,5	150	5,6,7,7		N=25	SPT(c)
	3.20				6,9	150	10,11,11,10		N=42	SPT(c)
	6.05				2,4	150	4,3,3,2		N=12	
BH29A	1.00				25,0	0	50+,0+,0+,0+	0	NP	SPT(c)

Notes:

1. Tests carried out in accordance with BS1377: Part 9: 1990: 3.3.
2. Reported blows are for 75mm penetration unless indicated "+".
3. Where full test drive was not achieved, actual penetration (R) and total test drive blows are reported.
4. Tests carried out using a split spoon sampler unless noted as CPT in comments column.





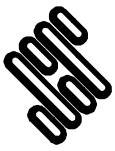
STANDARD PENETRATION TEST SUMMARY TABLE

Contract: Sizewell C Supplementary Investigation					Client: British Energy					Job No: 722201
Exploratory Position ID	Depth (m)	Hole Dia (mm)	Casing Depth (m)	Water Depth (m)	Seating Drive		Test Drive			Comments
					Blows	Pen (mm)	Blows	R (mm)	Result	
BH29A	3.20				2,3	150	4,5,4,5		N=18	SPT(c)
	5.20				2,3	150	4,6,4,3		N=17	SPT(c)
	10.05				2,4	150	3,4,3,4		N=14	
BH30	1.20				6,8	150	9,10,10,9		N=38	SPT(c)
	3.20				6,7	150	8,9,8,9		N=34	SPT(c)
BH31	1.20				4,6	150	7,8,10,11		N=36	SPT(c)
	3.20				5,8	150	11,13,13,14		N=51	
BH32A	1.20				3,3	150	3,2,3,4		N=12	SPT(c)
	3.20				2,3	150	3,4,3,3		N=13	SPT(c)
	5.25				1,2	150	2,3,4,4		N=13	
BH33	1.20				4,3	150	4,6,10,11		N=31	SPT(c)
	3.20				5,7	150	10,11,13,17		N=51	SPT(c)
BH34	1.20				5,7	150	8,9,9,10		N=36	SPT(c)
	3.20				4,6	150	7,8,9,10		N=34	SPT(c)
BH36	1.50				2,4	150	2,1,1,2		N=6	SPT(c)
	9.00				1,1	150	2,2,3,3		N=10	
BH37	1.50				6,4	150	3,2,1,2		N=8	SPT(c)
	8.50				2,3	150	2,3,3,2		N=10	
BH38	1.50				6,5	150	3,2,1,2		N=8	SPT(c)
	3.50				2,3	150	4,3,4,4		N=15	SPT(c)
	5.50				0,0	150	1,1,1,1		N=4	
	8.50				2,2	150	3,3,3,4		N=13	
BH39	1.50				1,1	150	2,3,2,3		N=10	SPT(c)

Notes:

1. Tests carried out in accordance with BS1377: Part 9: 1990: 3.3.
2. Reported blows are for 75mm penetration unless indicated "+".
3. Where full test drive was not achieved, actual penetration (R) and total test drive blows are reported.
4. Tests carried out using a split spoon sampler unless noted as CPT in comments column.





STRUCTURAL SOILS

STANDARD PENETRATION TEST SUMMARY TABLE

Contract: Sizewell C Supplementary Investigation					Client: British Energy					Job No: 722201
Exploratory Position ID	Depth (m)	Hole Dia (mm)	Casing Depth (m)	Water Depth (m)	Seating Drive		Test Drive			Comments
					Blows	Pen (mm)	Blows	R (mm)	Result	
BH39	3.50				0,0	150	0,0,0,1		N=1	
	5.50				1,1	150	1,1,1,1		N=4	
	9.50				3,2	150	3,4,3,4		N=14	
BH40	1.50		1.50		3,2	150	3,3,2,3		N=11	SPT(c)
	3.50		3.50		0,1	150	1,2,1,2		N=6	SPT(c)
	5.50		5.50		3,4	150	5,6,7,7		N=25	
	12.50		7.50		1,2	150	3,2,3,3		N=11	SPT(c)

Notes:

1. Tests carried out in accordance with BS1377: Part 9: 1990: 3.3.
2. Reported blows are for 75mm penetration unless indicated "+".
3. Where full test drive was not achieved, actual penetration (R) and total test drive blows are reported.
4. Tests carried out using a split spoon sampler unless noted as CPT in comments column.





BH1 depth: 4.80m to 8.05m



BH3 depth: 6.70m to 8.50m





BH4 depth: 5.75m to 9.70m

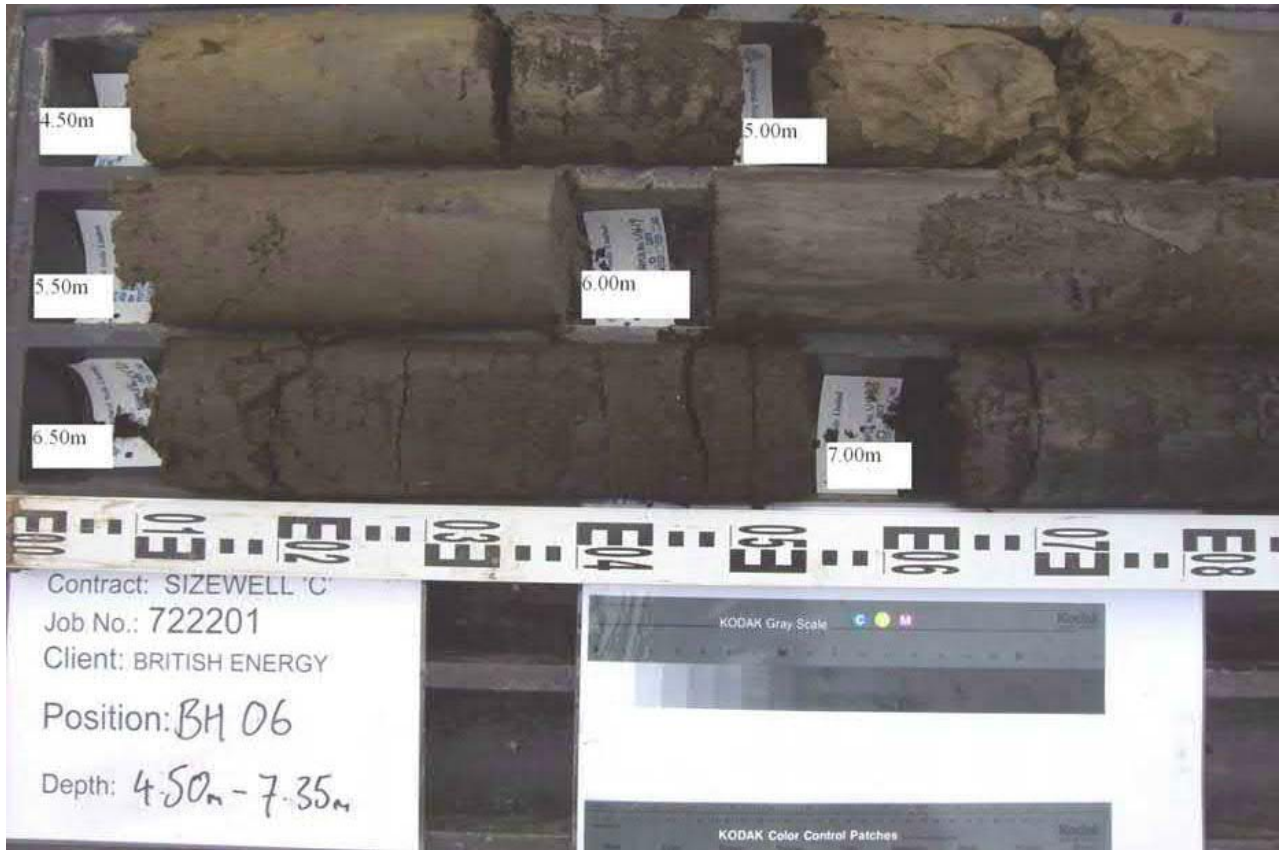


BH5 depth: 5.75m to 9.00m





BH6 depth: 4.50m to 7.50m



BH7 depth: 3.80m to 8.50m





BH8 depth: 5.00m to 9.65m



BH9 depth: 4.00m to 8.65m





BH10A depth: 4.00m to 8.00m



BH11 depth: 4.70m to 10.40m

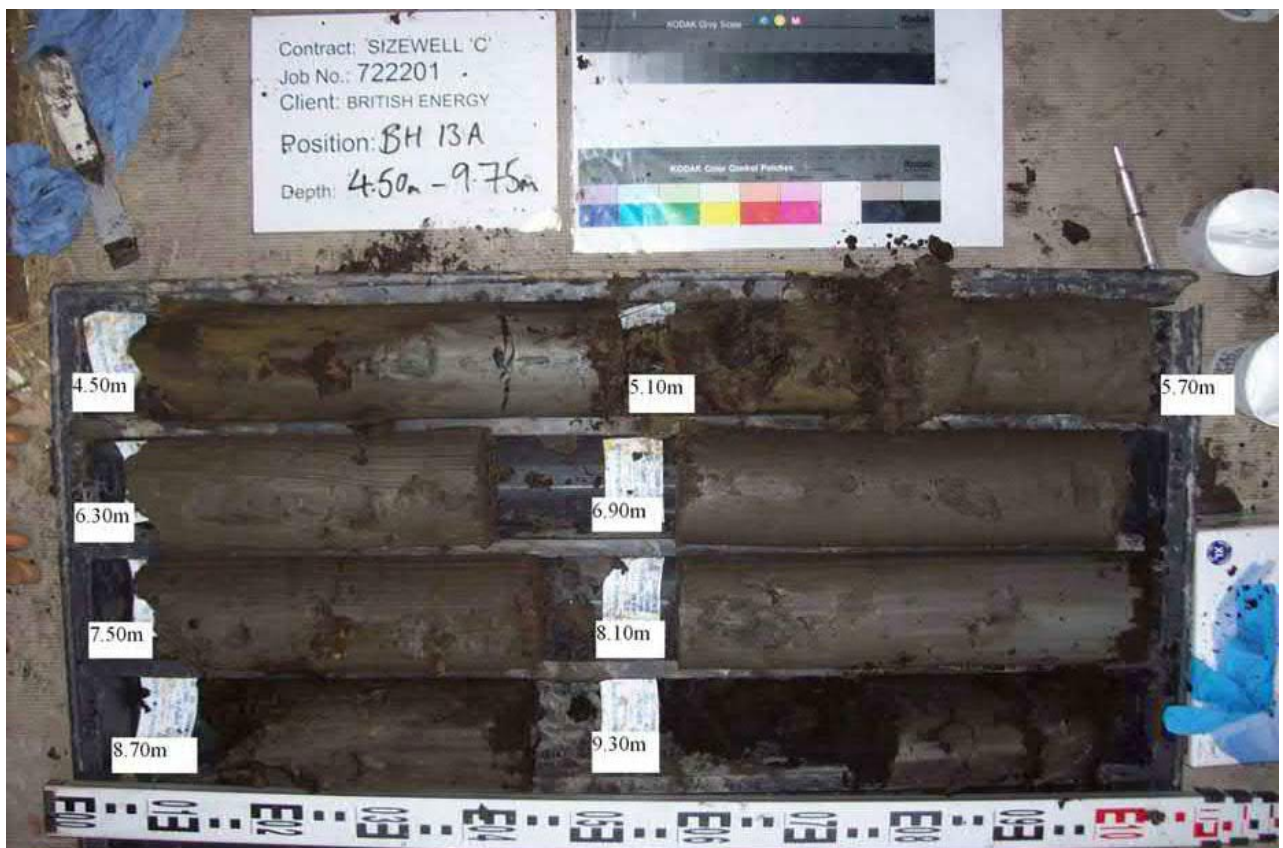




BH12 depth 4.90m to 11.35m



BH13A depth: 4.70m to 9.75m





BH14 depth: 5.40m to 9.40m



BH16 depth: 6.25m to 10.45m





BH17 depth 4.00m to 5.00m



BH17 depth: 5.00m to 7.50m





BH17 depth: 7.50m to 10.50m



BH19A depth: 5.20m to 9.85m





BH20 depth: 3.90m to 10.50m



BH21 depth: 4.50m to 10.55m





BH22 depth 5.40m to 10.65m



BH23 depth: 5.75m to 9.00m





BH 24 depth: 6.00m to 8.50m



BH25 depth: 5.50m to 9.00m





BH28 depth 4.00m to 5.85m



BH29A depth: 5.75m to 9.00m





BH36 depth: 2.00m to 8.00m



BH38 depth: 6.00m to 8.00m





BH 39 depth: 6.00m to 9.20m



BH40 depth: 7.50m to 12.00m

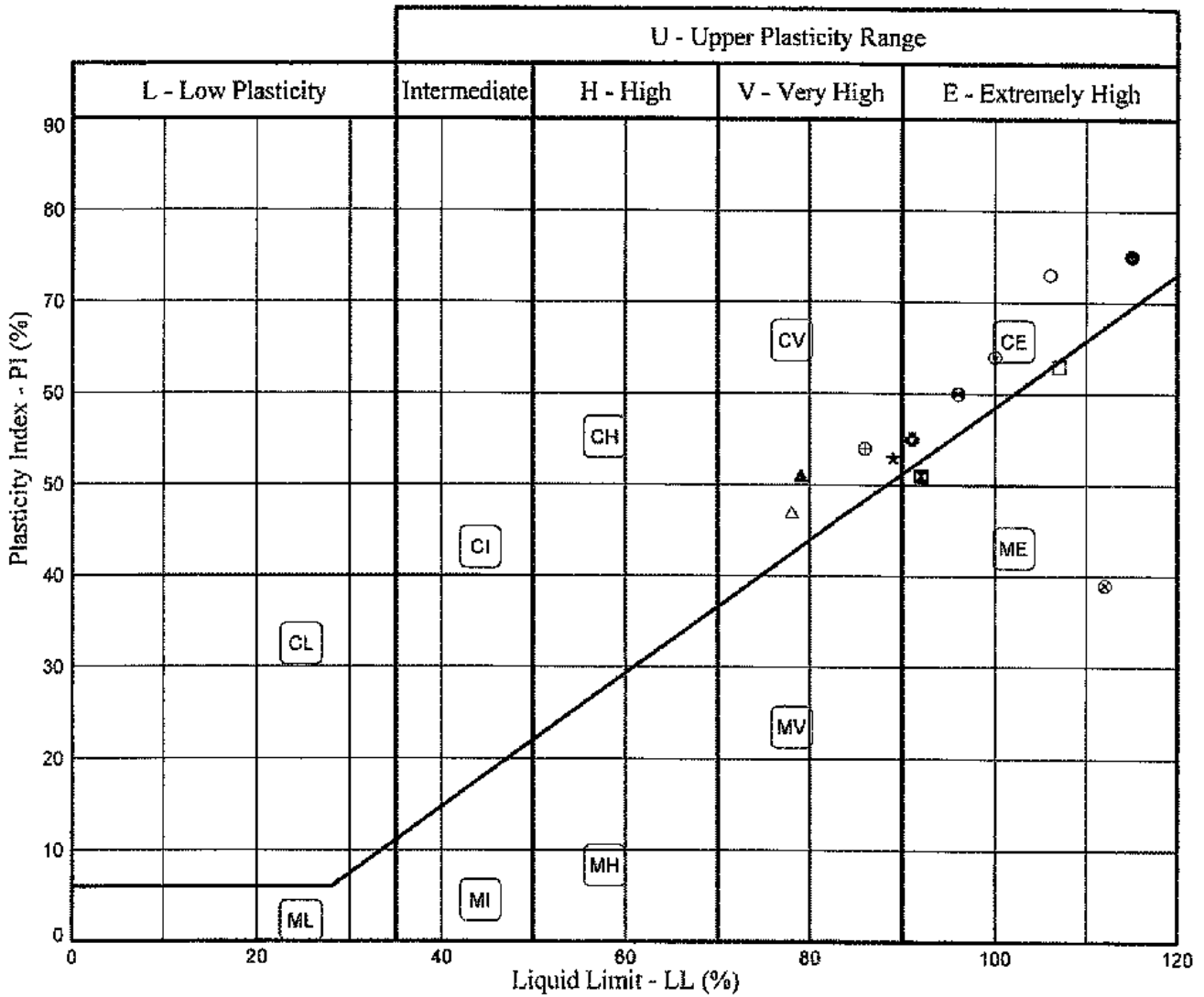


APPENDIX C

- (i) Laboratory Test Results

PLASTICITY CHART - PI Vs LL

In accordance with clause 42.3 of BS5930:1981
Testing in accordance with clauses 3.2,4.3,4.4,5.3,5.4 of BS1377:Part 2:1990



Sample Identification	MC	LL	PL	PI	<425um	Specimen Description
Hole/D Sample Depth	%	%	%	%	%	
● BH1 8 D 6.15	152	115	40	75	87	Pale grey CLAY with some fibrous organic matter
⊠ BH4 9 D 6.40	75	92	41	51	100	Grey slightly sandy CLAY with occasional fibrous organic matter
▲ BH5 8 D 5.50	76	79	28	51	97	Grey slightly sandy CLAY with occasional organic matter
★ BH6 12 D 4.40	60	89	36	53	99	Grey mottled brown CLAY with occasional fibrous organic matter
⊙ BH7 14 P 4.85	80	100	36	64	98	Grey organic CLAY
⊕ BH8 7 D 4.90	65	91	36	55	99	Grey CLAY with occasional fibrous organic matter
○ BH9 7 D 4.65	72	106	33	73	100	Grey organic CLAY
△ BH10A 11 D 4.00	64	78	31	47	93	Grey mottled brown slightly gravelly organic CLAY
⊗ BH10A 23 D 7.00	233	112	73	39	13	Grey organic CLAY coated in dark brown fibrous peat
⊕ BH11 14 D 5.30	77	86	32	54	99	Grey slightly sandy CLAY with occasional fibrous organic matter
□ BH11 16 D 5.90	82	107	44	63	99	Grey CLAY with occasional pockets of peat
⊕ BH11 26 D 8.90	84	96	36	60	100	Grey organic CLAY

* Non-standard test Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



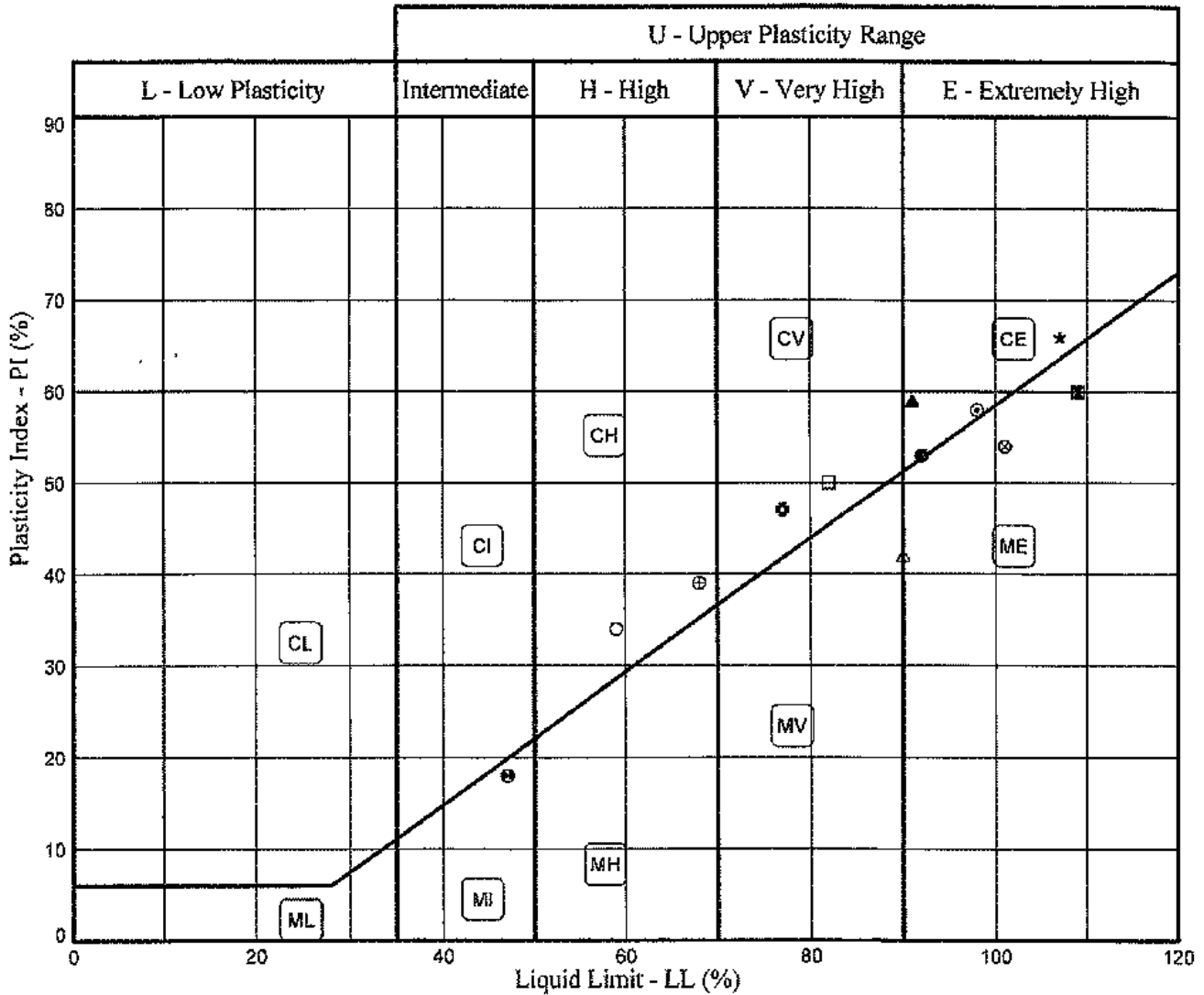
STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Contracted By	Date	Checked By	Date
[Redacted]	06/03/09	[Redacted]	6/4/09
Contract		Job No	
Sizewell C Supplementary Investigation		722201	

STRUCTURAL_SOILS_GINT_LIBRARY_08-11-08_GLBIL - ALINEMAX | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION_GFU - v8_02 | 09/03/09 - 08:06

PLASTICITY CHART - PI Vs LL

In accordance with clause 42.3 of BS5930:1981
 Testing in accordance with clauses 3.2,4.3,4.4,5.3,5.4 of BS1377:Part 2:1990



Sample Identification	MC	LL	PL	PI	<425um	Specimen Description
HoieID Sample Depth	%	%	%	%	%	
● BH12 22 D 7.90	100	92	39	53	98	Grey CLAY with some fibrous organic matter
⊠ BH14 15 D 6.00	66	109	49	60	90	Grey CLAY with occasional fibrous organic matter
▲ BH16 6 D 4.50	68	91	32	59	100	Grey organic CLAY
★ BH17 12 D 4.50	84	107	41	66	100	Grey CLAY with occasional fibrous organic matter
⊙ BH17 20 D 6.50	145	98	40	58	94	Grey CLAY with occasional fibrous organic matter
⊕ BH20 6 D 3.85	65	77	30	47	99	Grey slightly sandy CLAY with occasional fibrous organic matter
○ BH20 9 D 5.85	55	59	25	34	100	Grey CLAY
△ BH22 16 D 6.00	81	90	48	42	99	Grey slightly sandy SILT with occasional fibrous organic matter
⊗ BH22 20 D 7.20	78	101	47	54	100	Grey CLAY with occasional fibrous organic matter
⊕ BH23 7 D 5.70	44	68	29	39	98	Grey slightly sandy CLAY
□ BH23 9 D 7.10	64	82	32	50	100	Grey mottled brown CLAY with occasional fibrous organic matter
⊗ BH25 13 D 5.00	34	47	29	18	71	Brown mottled dark grey slightly gravelly slightly sandy SILT

* Non-standard test Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



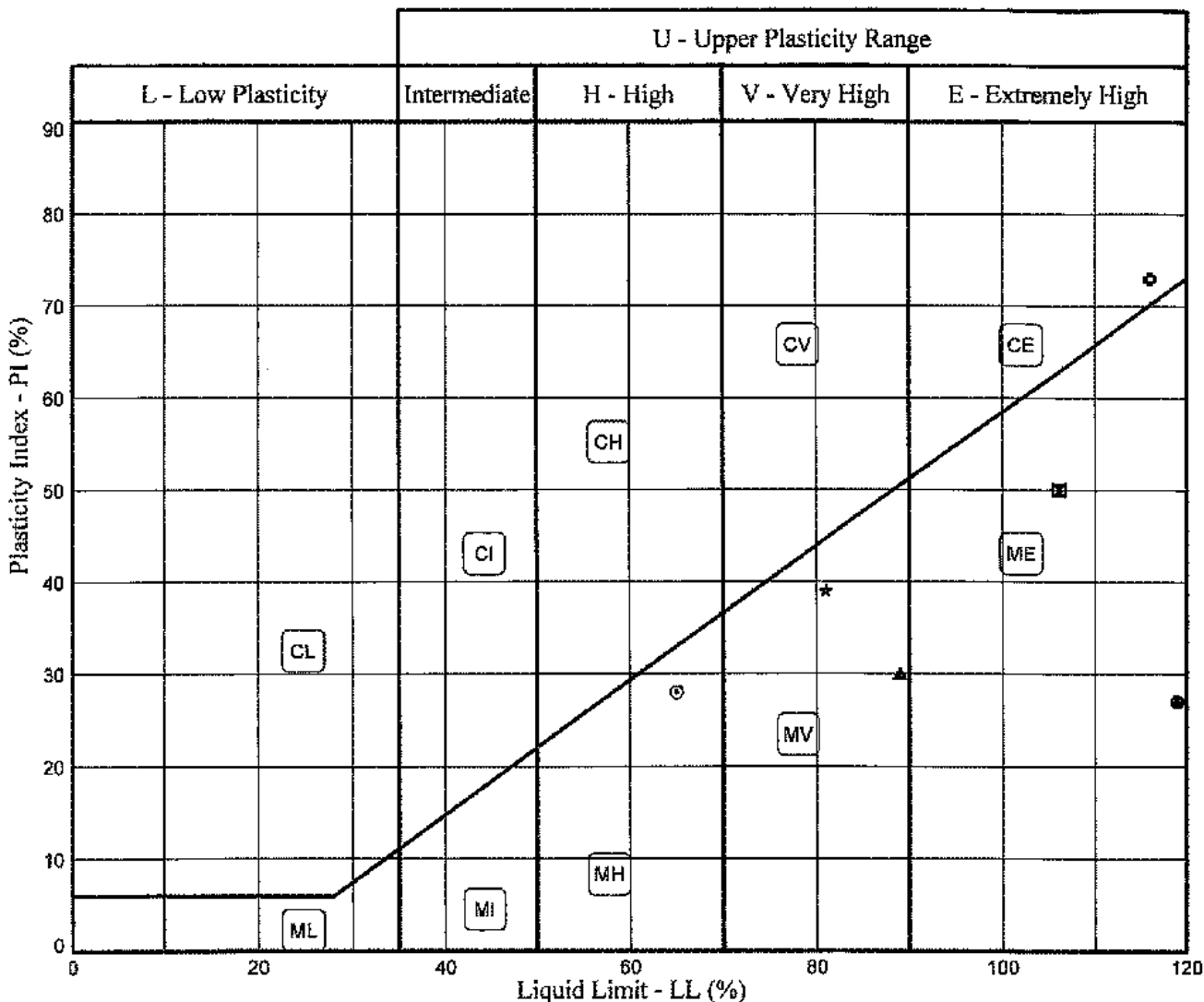
STRUCTURAL SOILS
 The Old School
 Stillhouse Lane
 Bedminster
 Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	06/03/09	[Redacted]	6/3/09
Contract		Job No	
Sizewell C Supplementary Investigation		722201	



PLASTICITY CHART - PI Vs LL

In accordance with clause 42.3 of BS5930:1981
 Testing in accordance with clauses 3.2,4.3,4.4,5.3,5.4 of BS1377:Part 2:1990



Sample Identification		MC	LL	PL	PI	<425um	Specimen Description	
HoleID	Sample Depth	%	%	%	%	%		
● BH28	6 D	3.90	184	119	92	27	76	Dark brown slightly sandy SILT with some fibrous organic matter
☒ BH29A	7 D	5.70	80	106	56	50	95	Brown mottled grey CLAY with occasional organic matter
▲ BH36	6 D	2.00	104	89	59	30	94	Dark brown mottled orange and grey slightly sandy organic SILT
★ BH36	7 P	2.12	107	81	42	39	93	Grey CLAY with occasional fibrous organic matter
⊙ BH39	15 D	5.95	60	65	37	28	87	Dark brown mottled grey sandy CLAY with occasional fibrous organic matter
⊗ BH39	16 P	6.89	79	116	43	73	92	Grey CLAY with occasional fibrous organic matter

* Non-standard test Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
 The Old School
 Stillhouse Lane
 Bedminster
 Bristol BS3 4EB



Compiled By	Date	Checked By	Date
[Redacted]	06/03/06	[Redacted]	13/03/06
Contract	JOB NO		
Sizewell C Supplementary Investigation		722201	

SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

Hole Reference	Sample No	Sample Type	Depth m	Moisture Content %	Bulk Density Mg/m ³	Dry Density Mg/m ³	Particle Density Mg/m ³	Liquid Limit %	Plastic Limit %	Plasticity Index %	% <425µm	Description of Sample
BH1	7	D	5.45	100				154	91	63	96	Dark grey CLAY with some fibrous organic matter
BH1	8	D	6.15	150				115	40	75	87	Pale grey CLAY with some fibrous organic matter
BH1	9	D	6.85	290				304	154	150	85	Dark brown fibrous PEAT
BH1	11	D	8.25	290				284	213	71	70	Dark brown fibrous PEAT
BH3	19	D	7.10	250				350	194	156	73	Dark brown fibrous PEAT
BH3	23	D	8.10	280				511	320	191	84	Dark brown fibrous PEAT
BH4	9	D	6.40	75				92	41	51	100	Grey slightly sandy CLAY with occasional fibrous organic matter
BH4	14	D	9.90	300				500	293	207	69	Black fibrous PEAT

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref:
	Contract:	06.03.09	6/3/09	722201	
Sizewell C Supplementary Investigation					
					

SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

Hole Reference	Sample No	Sample Type	Depth m	Moisture Content %	Bulk Density Mg/m ³	Dry Density Mg/m ³	Particle Density Mg/m ³	Liquid Limit %	Plastic Limit %	Plasticity Index %	% <425µm	Description of Sample
BH5	8	D	5.50	76				79	28	51	97	Grey slightly sandy CLAY with occasional organic matter
BH5	11	D	7.10	210				255	125	130	88	Dark brown fibrous PEAT
BH6	12	D	4.40	60				89	36	53	99	Grey mottled brown CLAY with occasional fibrous organic matter
BH6	20	D	6.50	300				510	378	132	77	Dark brown fibrous PEAT
BH7	14	P	4.85	80				100	36	64	98	Grey organic CLAY
BH7	15	P	6.20	490				431	329	102	59	Dark brown fibrous PEAT
BH7	16	P	7.17	440				557	437	120	89	Dark brown fibrous PEAT
BH7	16	P	7.65	420				503	343	160	94	Dark brown fibrous PEAT

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref:
	[REDACTED]	06.03.09	[REDACTED]	6/3/09	722201
Sizewell C Supplementary Investigation					

SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

Hole Reference	Sample No	Sample Type	Depth m	Moisture Content %	Bulk Density Mg/m ³	Dry Density Mg/m ³	Particle Density Mg/m ³	Liquid Limit %	Plastic Limit %	Plasticity Index %	% <425um	Description of Sample
BH7	17	P	8.35	400				587	428	159	64	Dark brown fibrous PEAT
BH8	7	D	4.90	65				91	36	55	99	Grey CLAY with occasional fibrous organic matter
BH8	14	D	9.85	300				516	348	168	61	Black mottled dark brown fibrous PEAT
BH9	7	D	4.65	72				106	33	73	100	Grey organic CLAY
BH9	10	D	6.75	130				196	78	118	100	Grey CLAY with occasional dark brown peat
BH9	12	D	8.15	160				308	170	138	100	Dark brown fibrous PEAT
BH10A	11	D	4.00	64				78	31	47	93	Grey mottled brown slightly gravelly organic CLAY
BH10A	19	D	6.00	440				597	335	262	53	Dark brown fibrous PEAT

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By
[Redacted]

Date
06.03.09

Checked By
[Redacted]

Date
6/3/09

Contract Ref:
722201

Sizewell C Supplementary Investigation



SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3.5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

Hole Reference	Sample No	Sample Type	Depth in	Moisture Content %	Bulk Density Mg/m ³	Dry Density Mg/m ³	Particle Density Mg/m ³	Liquid Limit %	Plastic Limit %	Plasticity Index %	% <425µm	Description of Sample
BH10A	23	D	7.00	230				112	73	39	13	Grey organic CLAY coated in dark brown fibrous peat
BH11	14	D	5.30	77				86	32	54	99	Grey slightly sandy CLAY with occasional fibrous organic matter
BH11	16	D	5.90	82				107	44	63	99	Grey CLAY with occasional pockets of peat
BH11	20	D	7.10	230				144	51	93	100	Brown mottled grey CLAY coated in dark brown peat
BH11	26	D	8.90	84				96	36	60	100	Grey organic CLAY
BH11	29	D	10.10	280				407	293	114	99	Dark brown fibrous PEAT
BH12	15	D	5.50	200				259	139	120	75	Dark brown fibrous PEAT
BH12	22	D	7.90	100				92	39	53	98	Grey CLAY with some fibrous organic matter

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	06.03.09	[REDACTED]	6/3/09

Contract:

Sizewell C Supplementary Investigation

Contract Ref:

722201



SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

File Reference	Sample No	Sample Type	Depth m	Moisture Content %	Bulk Density Mg/m ³	Dry Density Mg/m ³	Particle Density Mg/m ³	Liquid Limit %	Plastic Limit %	Plasticity Index %	% <425µm	Description of Sample
BH12	30	D	10.30	300				487	321	166	72	Grey CLAY with some fibrous organic matter
BH13A	10	D	5.10	230				235	134	101	84	Grey CLAY with much fibrous organic matter
BH13A	16	D	7.50	65				168	89	79	97	Grey CLAY with some fibrous organic matter
BH13A	18	D	8.10	140				180	75	105	100	Grey CLAY with some fibrous organic matter
BH13A	20	D	8.70	95				260	206	54	88	Grey CLAY with much fibrous organic matter
BH14	15	D	6.00	66				109	49	60	90	Grey CLAY with occasional fibrous organic matter
BH14	21	D	7.80	290				287	201	86	87	Dark brown fibrous PEAT
BH14	23	D	8.40	340				579	408	171	50	Dark brown fibrous PEAT

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date	Contract Ref:
[REDACTED]	06.03.09	[REDACTED]	6/3/09	
Sizewell C Supplementary Investigation				722201



SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

Hole Reference	Sample No	Sample Type	Depth m	Moisture Content %	Bulk Density Mg/m ³	Dry Density Mg/m ³	Particle Density Mg/m ³	Liquid Limit %	Plastic Limit %	Plasticity Index %	% <425µm	Description of Sample
BH16	6	D	4.50	68				91	32	59	100	Grey organic CLAY
BH16	8	D	7.70	240				315	217	98	70	Dark brown fibrous PEAT
BH17	12	D	4.50	84				107	41	66	100	Grey CLAY with occasional fibrous organic matter
BH17	20	D	6.50	150				98	40	58	94	Grey CLAY with occasional fibrous organic matter
BH17	30	D	9.00	300				486	353	133	100	Dark brown fibrous PEAT
BH18	7	D	5.70	8.4				NP	NP	NP	60	Grey slightly silty gravelly SAND
BH19A	11	D	7.95	280				146	104	42	63	Dark brown fibrous PEAT
BH19A	14	D	10.05	27				NP	NP	NP	94	Light grey mottled dark grey silty SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	06.03.09	[REDACTED]	6/3/09

Contract Ref:

722201

Sizewell C Supplementary Investigation





SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

Hole Reference	Sample No	Sample Type	Depth m	Moisture Content %	Bulk Density Mg/m ³	Dry Density Mg/m ³	Particle Density Mg/m ³	Liquid Limit %	Plastic Limit %	Plasticity Index %	% <425µm	Description of Sample
BH20	6	D	3.85	65				77	30	47	99	Grey slightly sandy CLAY with occasional fibrous organic matter
BH20	9	D	5.85	55				59	25	34	100	Grey CLAY
BH20	14	D	9.35	270				456	347	109	63	Dark brown fibrous PEAT
BH21	9	D	6.55	87				127	49	78	100	Grey CLAY with occasional fibrous organic matter
BH21	11	D	7.95	320				430	283	147	59	Dark brown fibrous PEAT
BH21	13	D	9.35	250				514	338	176	81	Dark brown fibrous PEAT
BH22	14	D	5.40	88				182	86	96	100	Grey CLAY with some fibrous organic matter
BH22	16	D	6.00	81				90	48	42	99	Grey slightly sandy SILT with occasional fibrous organic matter

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref:
	[REDACTED]	06.03.09	[REDACTED]	6/3/09	722201
Sizewell C Supplementary Investigation					
					

SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3.5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

Hole Reference	Sample No	Sample Type	Depth m	Moisture Content %	Bulk Density Mg/m ³	Dry Density Mg/m ³	Particle Density Mg/m ³	Liquid Limit %	Plastic Limit %	Plasticity Index %	% <425µm	Description of Sample
BH22	20	D	7.20	78				101	47	54	100	Grey CLAY with occasional fibrous organic matter
BH22	24	D	8.40	140				162	75	87	97	Grey CLAY with some fibrous organic matter
BH22	28	D	9.60	330				501	385	116	86	Dark brown fibrous PEAT
BH23	7	D	5.70	44				68	29	39	98	Grey slightly sandy CLAY
BH23	9	D	7.10	64				82	32	50	100	Grey mottled brown CLAY with occasional fibrous organic matter
BH23	10	D	7.80	240				208	149	59	71	Dark brown fibrous PEAT
BH23	11	D	8.50	200				285	193	92	82	Dark brown fibrous PEAT
BH24	8	D	6.00	130				221	135	86	96	Brown mottled orange and grey CLAY with some fibrous organic matter

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref:
	[REDACTED]	06.03.09	[REDACTED]	6/3/09	722201
Sizewell C Supplementary Investigation					

SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

Hole Reference	Sample No	Sample Type	Depth m	Moisture Content %	Bulk Density Mg/m ³	Dry Density Mg/m ³	Particle Density Mg/m ³	Liquid Limit %	Plastic Limit %	Plasticity Index %	% <425µm	Description of Sample
BH24	11	D	8.00	370				576	445	131	61	Dark brown fibrous PEAT
BH25	13	D	5.00	34				47	29	18	71	Brown mottled dark grey slightly gravelly slightly sandy SILT
BH25	20	D	7.00	87				122	51	71	99	Grey CLAY with occasional fibrous organic matter
BH25	22	D	7.50	340				502	384	118	81	Dark brown fibrous PEAT
BH25	26	D	8.50	340				452	361	91	100	Dark brown fibrous PEAT
BH28	6	D	3.90	180				119	92	27	76	Dark brown slightly sandy SILT with some fibrous organic matter
BH28	8	D	5.35	290				304	279	25	88	Dark brown fibrous PEAT
BH29A	7	D	5.70	80				106	56	50	95	Brown mottled grey CLAY with occasional organic matter

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By:	Date	Date	Contract Ref:
[REDACTED]	06.03.09	6/3/09	

Contract: **Sizewell C Supplementary Investigation**

722201



SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

Hole Reference	Sample No	Sample Type	Depth m	Moisture Content %	Bulk Density Mg/m ³	Dry Density Mg/m ³	Particle Density Mg/m ³	Liquid Limit %	Plastic Limit %	Plasticity Index %	% <425µm	Description of Sample
BH29A	10	D	7.80	310				528	396	132	97	Dark brown fibrous PEAT
BH29A	11	D	8.50	330				484	398	86	68	Dark brown fibrous PEAT
BH36	6	D	2.00	100				89	59	30	94	Dark brown mottled orange and grey slightly sandy organic SILT
BH36	7	P	2.12	110				81	42	39	93	Grey CLAY with occasional fibrous organic matter
BH36	8	P	3.05	310				243	147	96	36	Dark brown fibrous PEAT
BH36	8	P	3.16	410				403	309	94	77	Dark brown fibrous PEAT
BH36	9	P	4.35	590				653	618	35	89	Dark brown fibrous PEAT
BH36	10	P	5.20	470				336	155	181	78	Dark brown fibrous PEAT

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	06.03.09	[REDACTED]	6/3/09
Sizewell C Supplementary Investigation			

Contract Ref:

722201



SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

Hole Reference	Sample No	Sample Type	Depth m	Moisture Content %	Bulk Density Mg/m ³	Dry Density Mg/m ³	Particle Density Mg/m ³	Liquid Limit %	Plastic Limit %	Plasticity Index %	% <425µm	Description of Sample
BH36	20	D	6.00	460				443	348	95	76	Dark brown fibrous PEAT
BH36	21	P	7.45	440				538	466	72	72	Dark brown fibrous PEAT
BH38	17	U	6.00	160				346	285	61	13	Dark brown fibrous PEAT
BH38	21	U	7.00	320				409	325	84	71	Black amorphous PEAT
BH38	23	U	7.50	120				NP	NP	NP	95	Black sandy amorphous PEAT
BH39	15	D	5.95	60				65	37	28	87	Dark brown mottled grey sandy CLAY with occasional fibrous organic matter
BH39	16	P	6.10	78				143	49	94	100	Grey CLAY with some fibrous organic matter
BH39	16	P	6.50	340				487	351	136	37	Dark brown fibrous PEAT

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By [Redacted]	Date 06.03.09	Checked By [Redacted]	Date 6/3/09	Contract Ref: 722201
Sizewell C Supplementary Investigation				

SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

Hole Reference	Sample No	Sample Type	Depth m	Moisture Content %	Bulk Density Mg/m ³	Dry Density Mg/m ³	Particle Density Mg/m ³	Liquid Limit %	Plastic Limit %	Plasticity Index %	% <425µm	Description of Sample
BH39	16	P	6.89	79				116	43	73	92	Grey CLAY with occasional fibrous organic matter
BH39	17	P	7.35	350				429	348	81	78	Dark brown fibrous PEAT
BH39	17	P	7.75	310				347	277	70	78	Dark brown fibrous PEAT
BH39	18	U	8.00	230				457	392	65	86	Dark brown fibrous PEAT
BH39	20	P	8.80	260				467	348	119	100	Black amorphous PEAT
BH40	20	P	7.50	280				161	147	14	27	Dark brown fibrous PEAT
BH40	20	P	7.84	81				123	63	60	97	Grey CLAY with occasional fibrous organic matter
BH40	22	P	9.55	140				193	98	95	93	Dark brown fibrous PEAT

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	06.03.09	[REDACTED]	6/3/09
Contract: Sizewell C Supplementary Investigation			



Contract Ref: **722201**

SUMMARY OF SOIL CLASSIFICATION TESTS

In accordance with clauses 3.2,4.3,4.4,5.3,5.4,7.2,8.2,8.3 of BS1377:Part 2:1990

Hole Reference	Sample No	Sample Type	Depth m	Moisture Content %	Bulk Density Mg/m ³	Dry Density Mg/m ³	Particle Density Mg/m ³	Liquid Limit %	Plastic Limit %	Plasticity Index %	% <425um	Description of Sample
BH40	22	P	10.20	230				275	195	80	76	Dark brown fibrous PEAT
BH40	23	P	10.30	190				164	117	47	99	Dark brown fibrous PEAT
BH40	23	P	10.70	160				332	246	86	96	Dark brown fibrous PEAT
BH40	24	P	11.55	140				158	131	27	64	Black amorphous PEAT

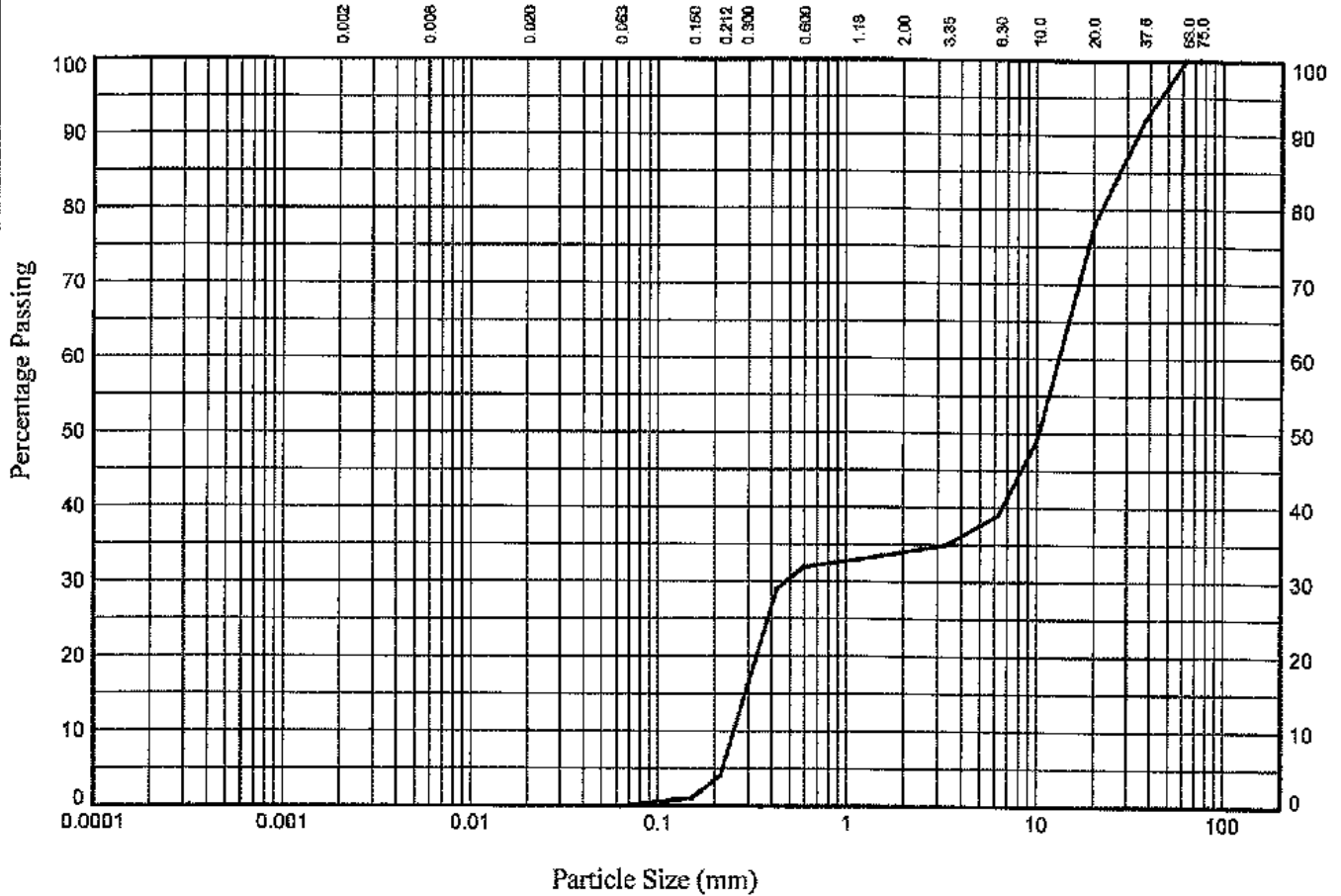
Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Date	Contract Ref:
	[Redacted]	06.03.09	[Redacted]	6/3/09
Sizewell C Supplementary Investigation				
				

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH1** Sample Ref: **2** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	92
20.0	78
10.0	49
6.30	39
5.00	
3.35	35
2.00	34
1.18	33
0.600	32
0.425	29
0.300	
0.212	4
0.150	1
0.063	0

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	66
SAND	34
SILT/CLAY	0

Soil Description:
Light brown very sandy GRAVEL

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

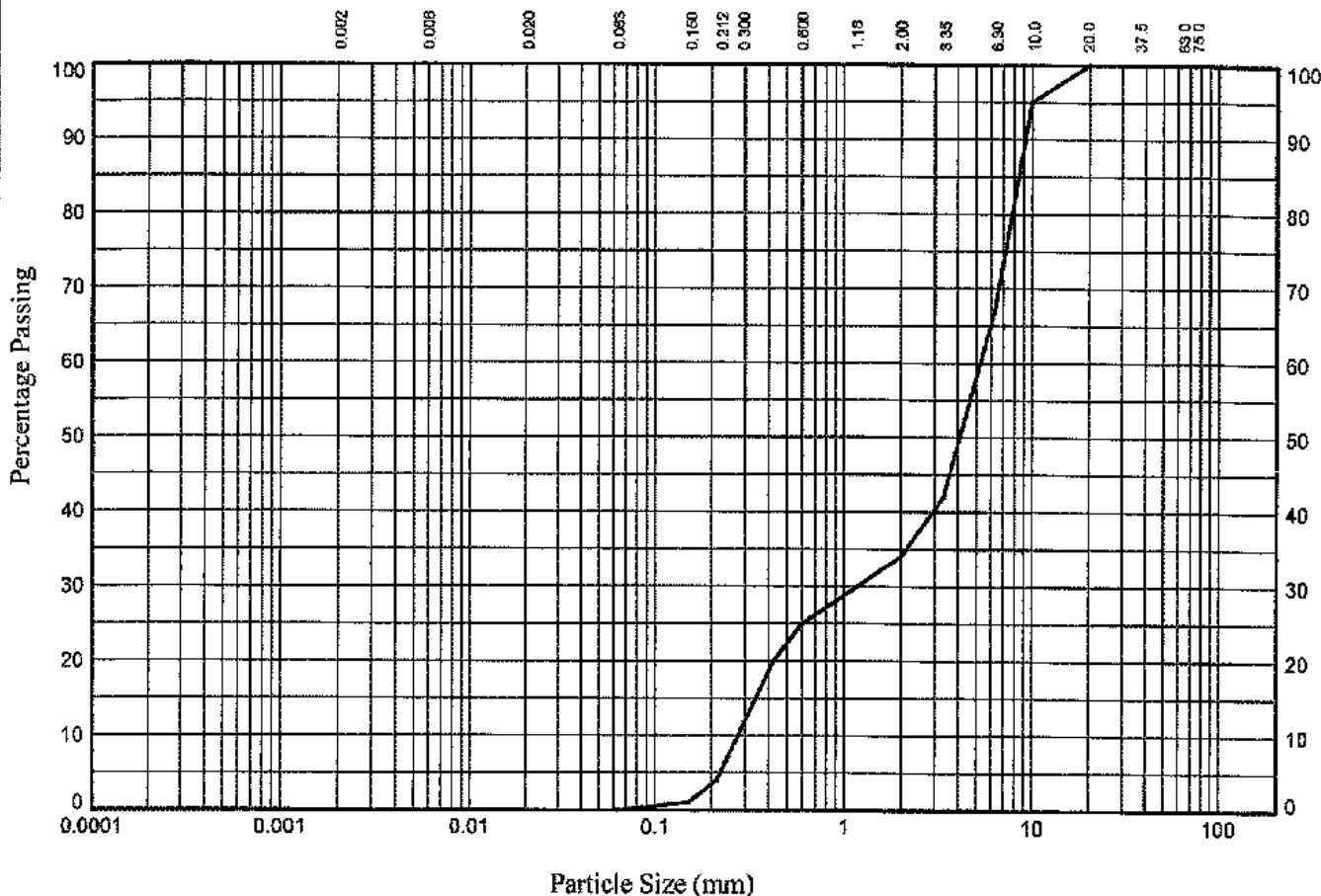
	STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Contract Sizewell C Supplementary Investigation	Date 29/01/0	Checked By [Redacted]	Date 6/3/09
			Job No 722201		

STRUCTURAL_SOILS_GINT_LIBRARY_08-11-08_GLBIL - PSD | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_D2 | 29/01/09 - 12.49

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH2** Sample Ref: **2** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	95
6.30	67
5.00	
3.35	42
2.00	34
1.18	30
0.600	25
0.425	20
0.300	
0.212	4
0.150	1
0.063	0

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	66
SAND	34
SILT/CLAY	0

Soil Description:
Brown very sandy GRAVEL

Approved Signatories: **D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN**



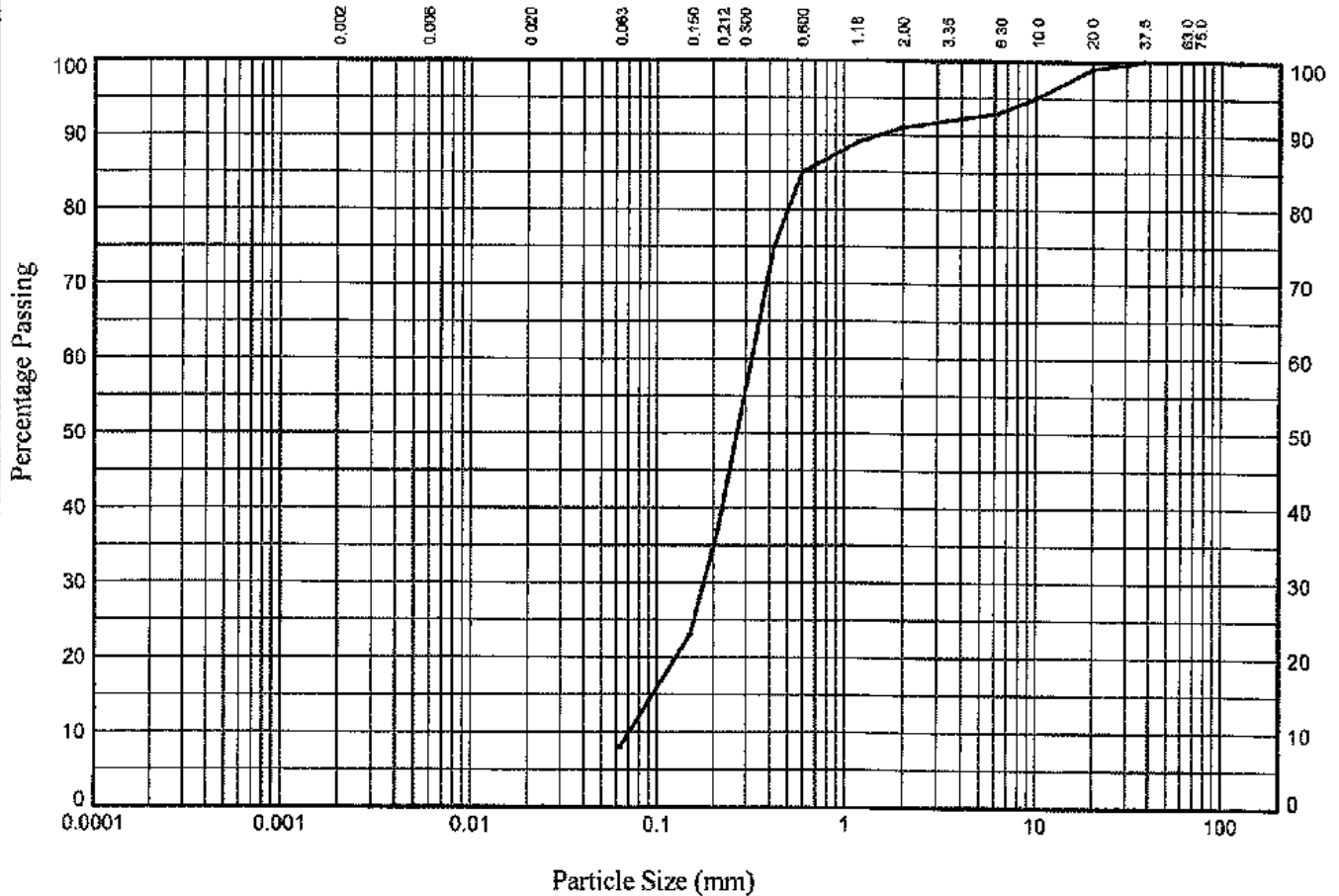
STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Date
[Redacted]	29/01/09	13/09
Contract		722201
Sizewell C Supplementary Investigation		

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH3** Sample Ref: **7** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	99
10.0	95
6.30	93
5.00	
3.35	92
2.00	91
1.18	89
0.600	85
0.425	75
0.300	
0.212	37
0.150	23
0.063	8

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	9
SAND	83
SILT/CLAY	8

Soil Description:
Brown silty/clayey sandy GRAVEL

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



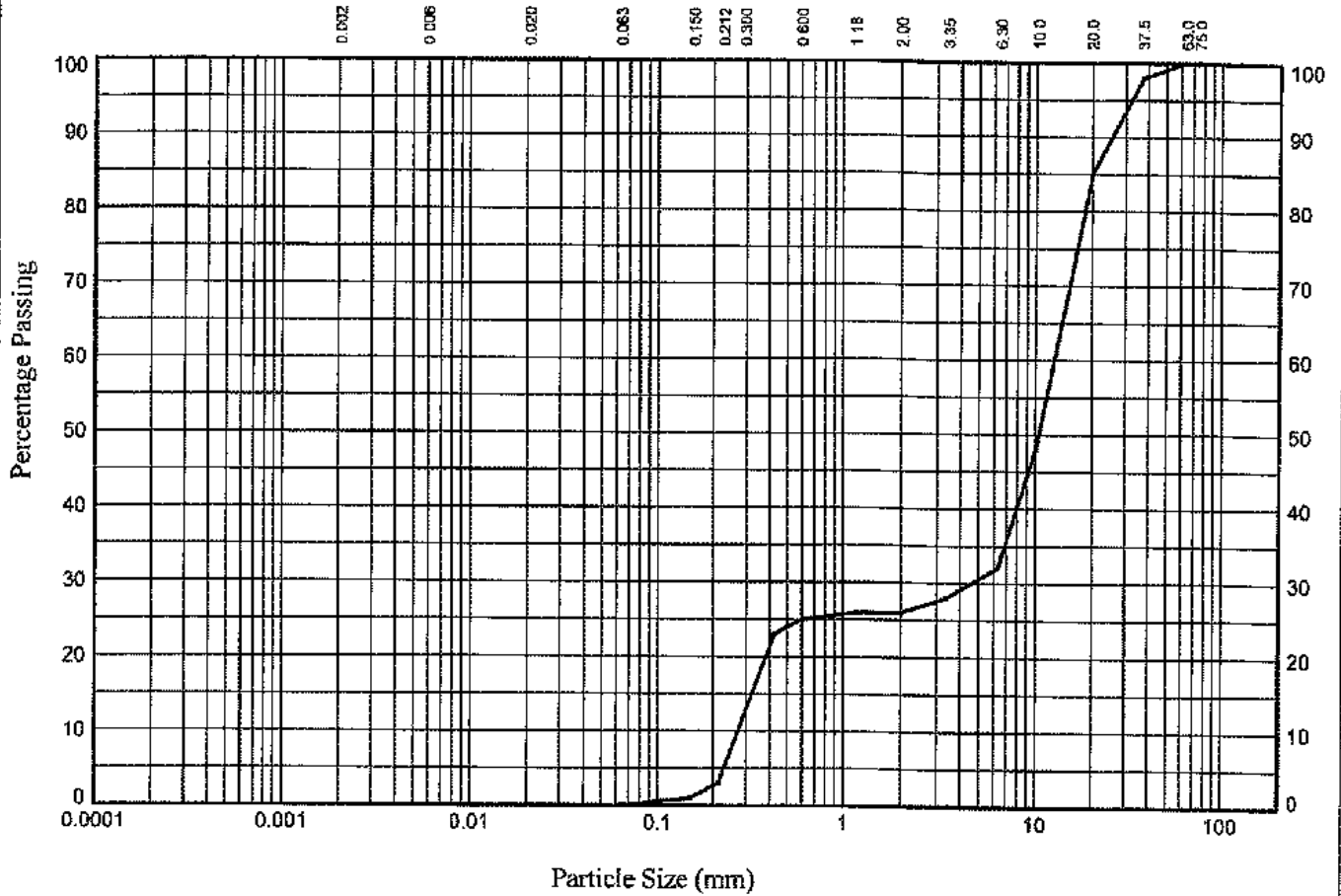
STRUCTURAL SOILS
 The Old School
 Stillhouse Lane
 Bedminster
 Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	29/01/09	[Redacted]	6/3/09
Contract		Job No	
Sizewell C Supplementary Investigation		722201	

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH4** Sample Ref: **2** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	98
20.0	85
10.0	48
6.30	32
5.00	
3.35	28
2.00	26
1.18	26
0.600	25
0.425	23
0.300	
0.212	3
0.150	1
0.063	0

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	74
SAND	26
SILT/CLAY	0

Soil Description:
Brown mottled grey very sandy GRAVEL

Approved Signatories: **D. TROWBRIDGE** **A. FROST** **F. HAMILTON** **L. MARTIN**



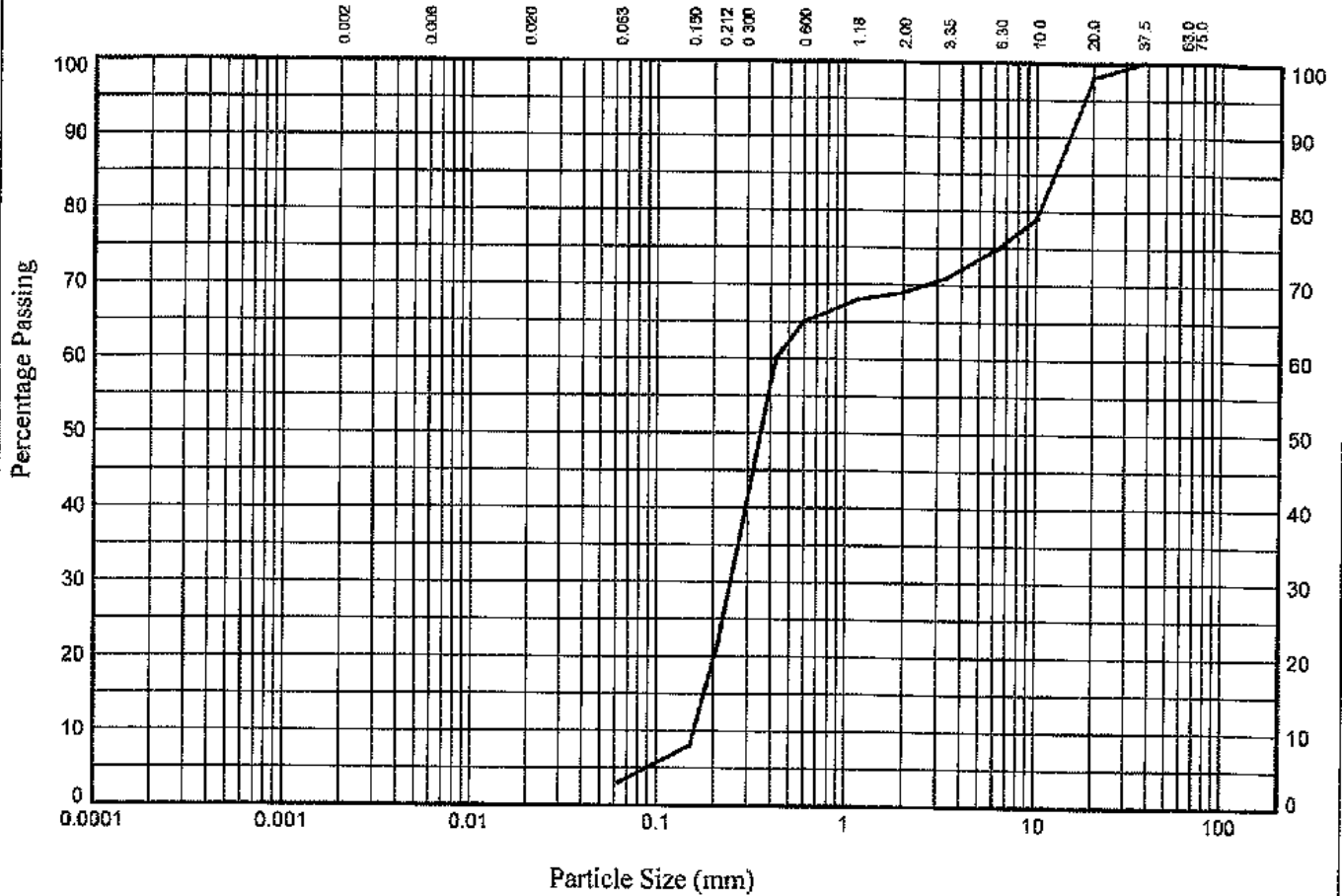
STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Client Ref	Date
	29/01/09		4/2/09
Contract		Job No	
Sizewell C Supplementary Investigation		722201	

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH5** Sample Ref: **2** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	98
10.0	79
6.30	75
5.00	
3.35	71
2.00	69
1.18	68
0.600	65
0.425	60
0.300	
0.212	22
0.150	8
0.063	3

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	31
SAND	66
SILT/CLAY	3

Soil Description:
Brown mottled grey slightly silty/clayey very gravelly SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
 The Old School
 Stillhouse Lane
 Bedminster
 Bristol BS3 4EB

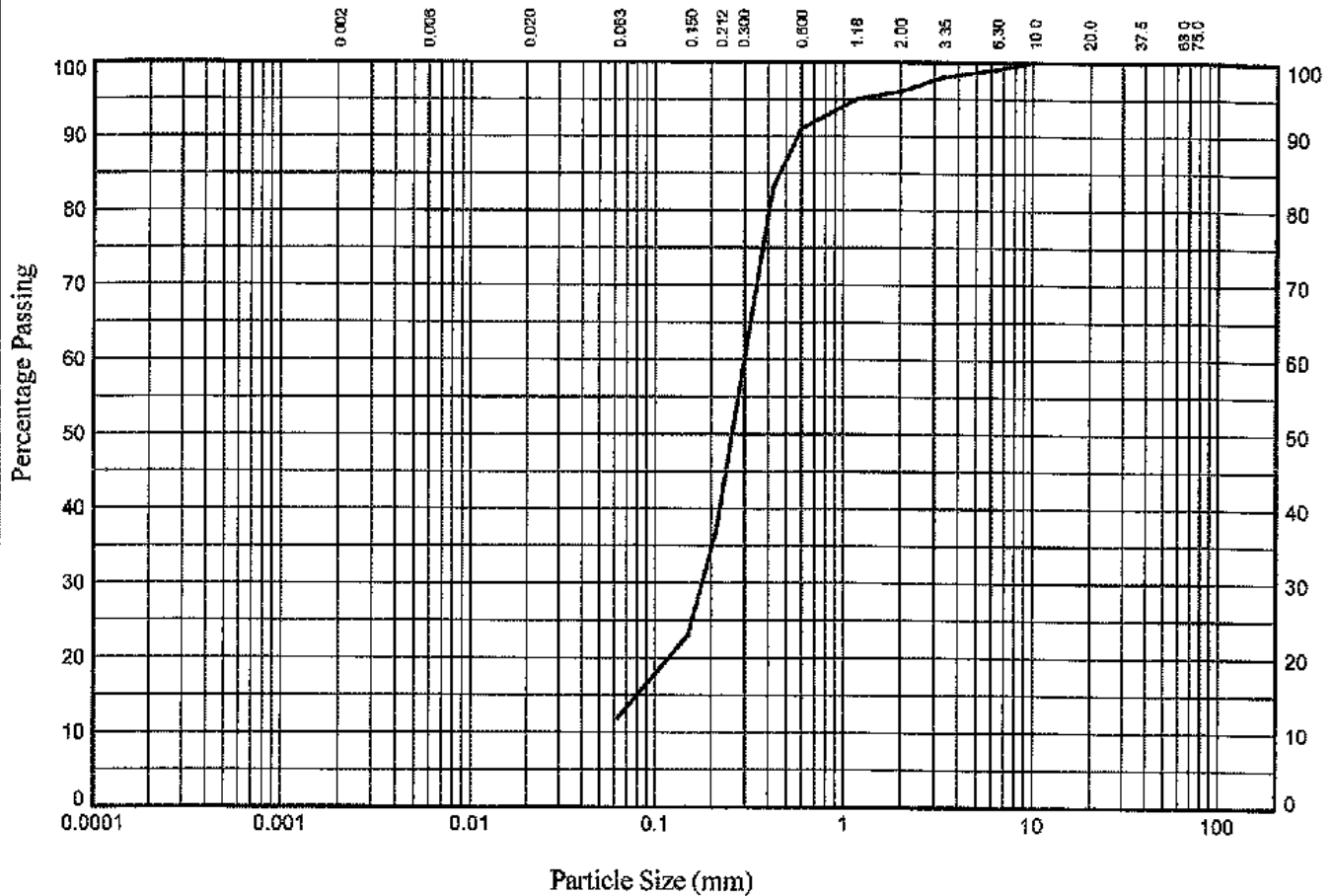
Contract	Date	Checked By	Date
[Redacted]	29/01/09	[Redacted]	6/3/09
Sizewell C Supplementary Investigation		Job No 722201	

STRUCTURAL_SOILS_GINT_LIBRARY_08-11-06 GLBIL - PSD | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ . vs_02 | 29/01/09 - 12:48

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH6** Sample Ref: **7** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	99
5.00	
3.35	98
2.00	96
1.18	95
0.600	91
0.425	83
0.300	
0.212	37
0.150	23
0.063	12

Particle Diameter	Percentage Passing	Soil Fraction	Sieve Percentage
		GRAVEL	4
		SAND	84
		SILT/CLAY	12

Soil Description:
Brown mottled grey slightly gravelly silty/clayey SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

STRUCTURAL SOILS
 The Old School
 Stillhouse Lane
 Bedminster
 Bristol BS3 4EB

Compiled By [Redacted] Date 29/01/09

Contract **Sizewell C Supplementary Investigation**

Checked By [Redacted] Date 13/09

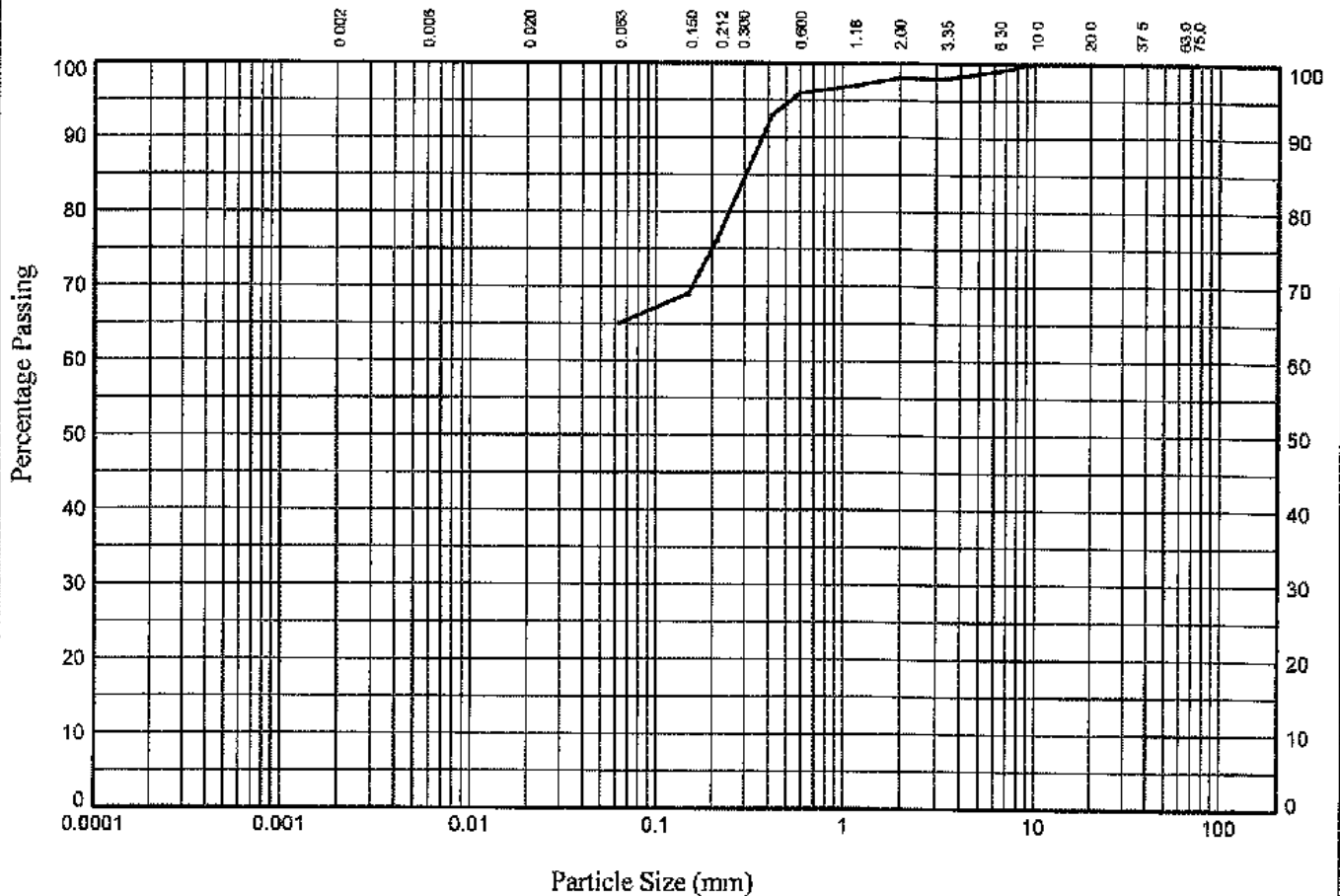
722201

STRUCTURAL_SOILS_GINT_LIBRARY_08-11-06.GLB.L - PSD | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 29/01/09 . 12.49

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH7** Sample Ref: **4** Sample Type: **B** Depth (m): **1.20**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	99
5.00	98
3.35	98
2.00	98
1.18	97
0.600	96
0.425	93
0.300	76
0.212	69
0.150	69
0.063	65

Particle Diameter	Percentage Passing	Soil Fraction	Sieve Percentage
		GRAVEL	2
		SAND	33
		SILT/CLAY	65

Soil Description:
Grey mottled orangish brown slightly gravelly slightly sandy CLAY

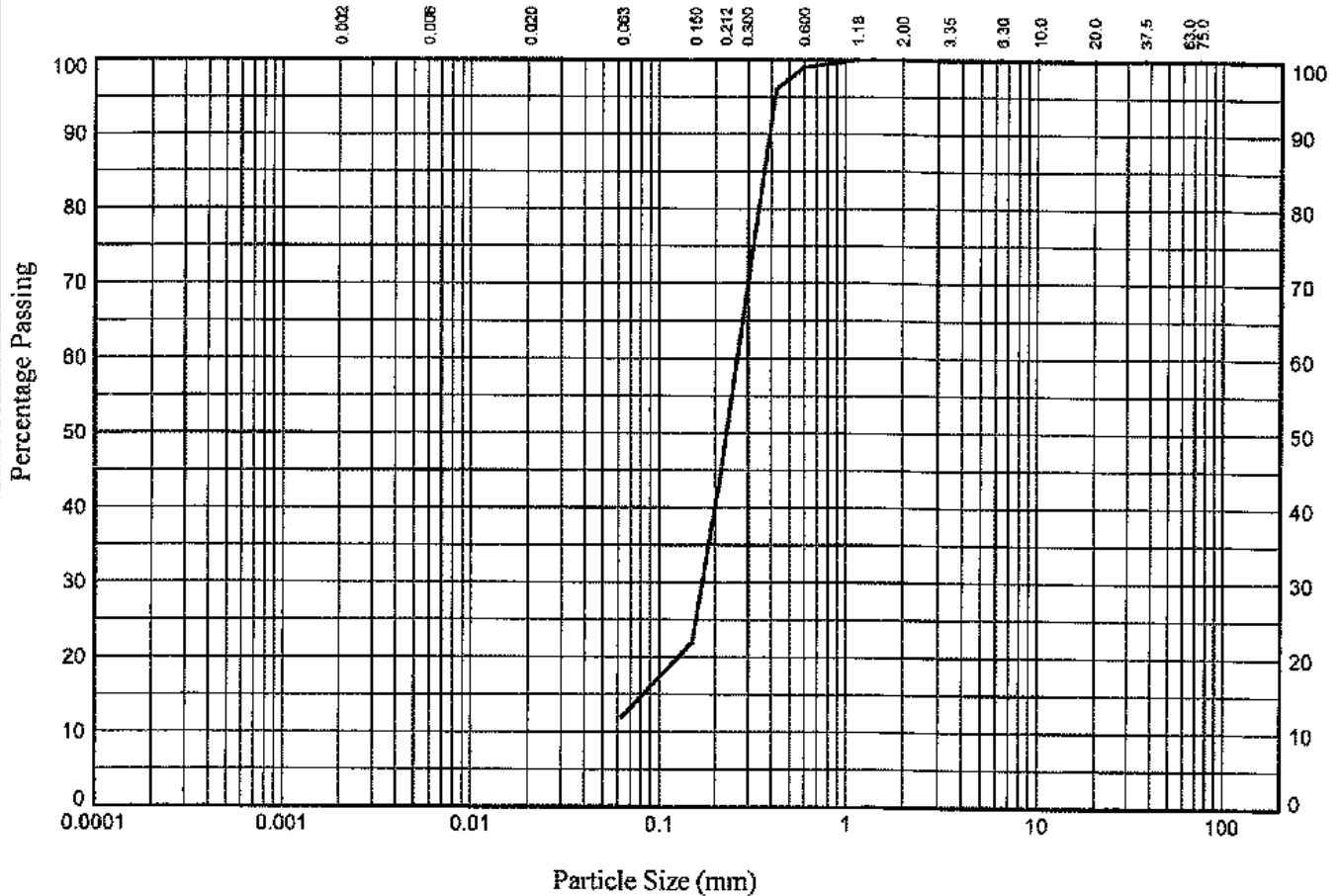
Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By [Redacted]	Date 29/01/09	Checked By [Redacted]	Date 6/3/09	
	Contract Sizewell C Supplementary Investigation		JOB NO 722201		

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH7** Sample Ref: **19** Sample Type: **B** Depth (m): **8.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
5.00	100
3.35	100
2.00	100
1.18	100
0.600	99
0.425	96
0.300	44
0.212	22
0.150	12
0.063	12

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	0
SAND	88
SILT/CLAY	12

Soil Description:
Dark brown mottled light brown silty/clayey SAND

Approved Signatories: **D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN**



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

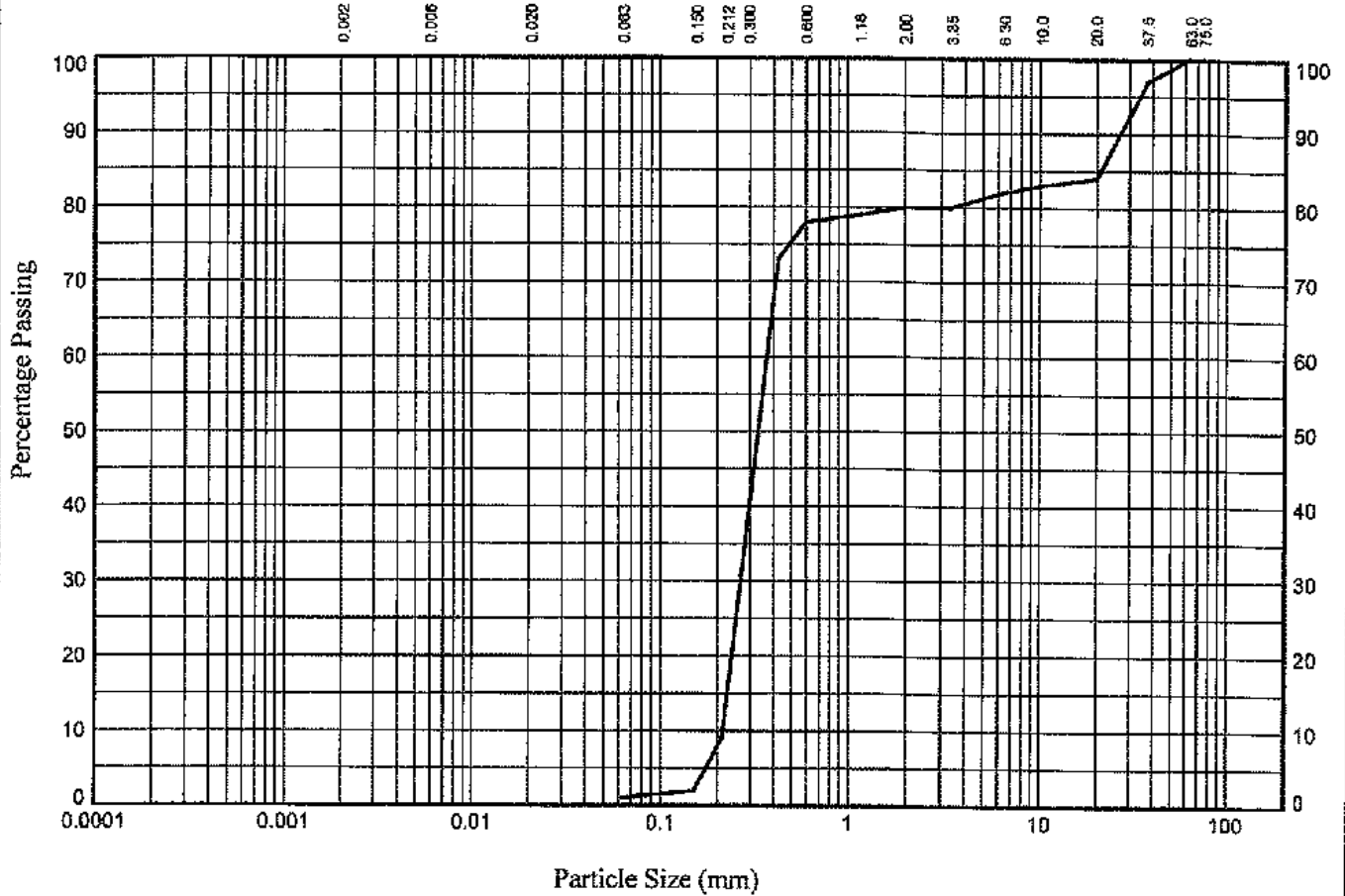
Compiled By [Redacted]	Date 29/01/09	Checked By [Redacted]	Date 6/3/09
Contract Sizewell C Supplementary Investigation		Job No 722201	



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH8** Sample Ref: **2** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarsc	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	97
20.0	84
10.0	83
6.30	82
5.00	
3.35	80
2.00	80
1.18	79
0.600	78
0.425	73
0.300	
0.212	9
0.150	2
0.063	1

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	20
SAND	79
SILT/CLAY	1

Soil Description:
Brown mottled grey slightly silty gravelly SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	29/01/	[Redacted]	13/09
Contract Sizewell C Supplementary Investigation		Job No 722201	

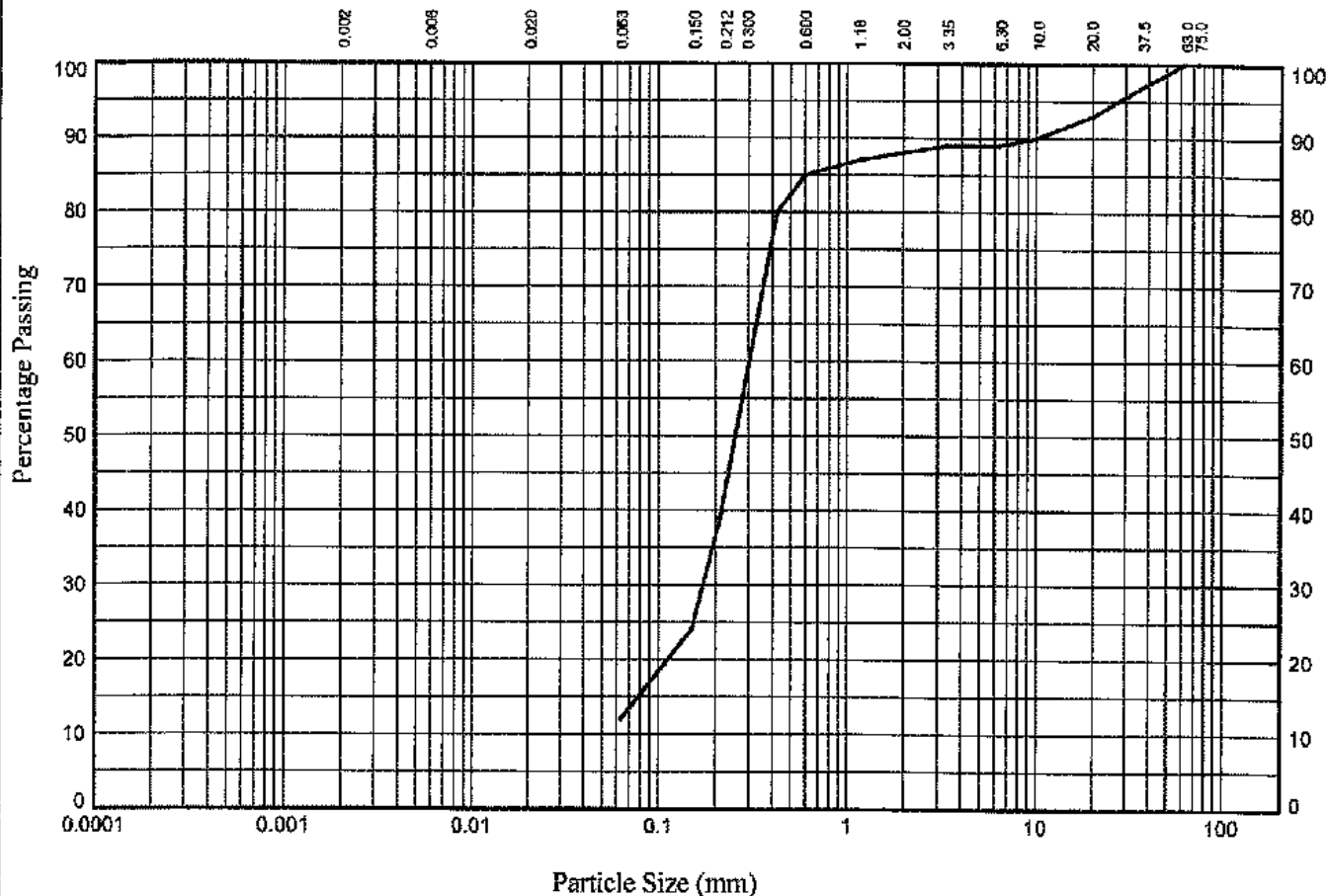


STRUCTURAL_SOILS_GINT_LIBRARY_08-11-08_GLEIL_PSD\722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - vb_02 | 28/01/09 - 12.49

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH9** Sample Ref: **3** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	97
20.0	93
10.0	90
6.30	89
5.00	
3.35	89
2.00	88
1.18	87
0.600	85
0.425	80
0.300	
0.212	39
0.150	24
0.063	12

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	12
SAND	76
SILT/CLAY	12

Soil Description:
Brown mottled orangish brown silty/clayey gravelly SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

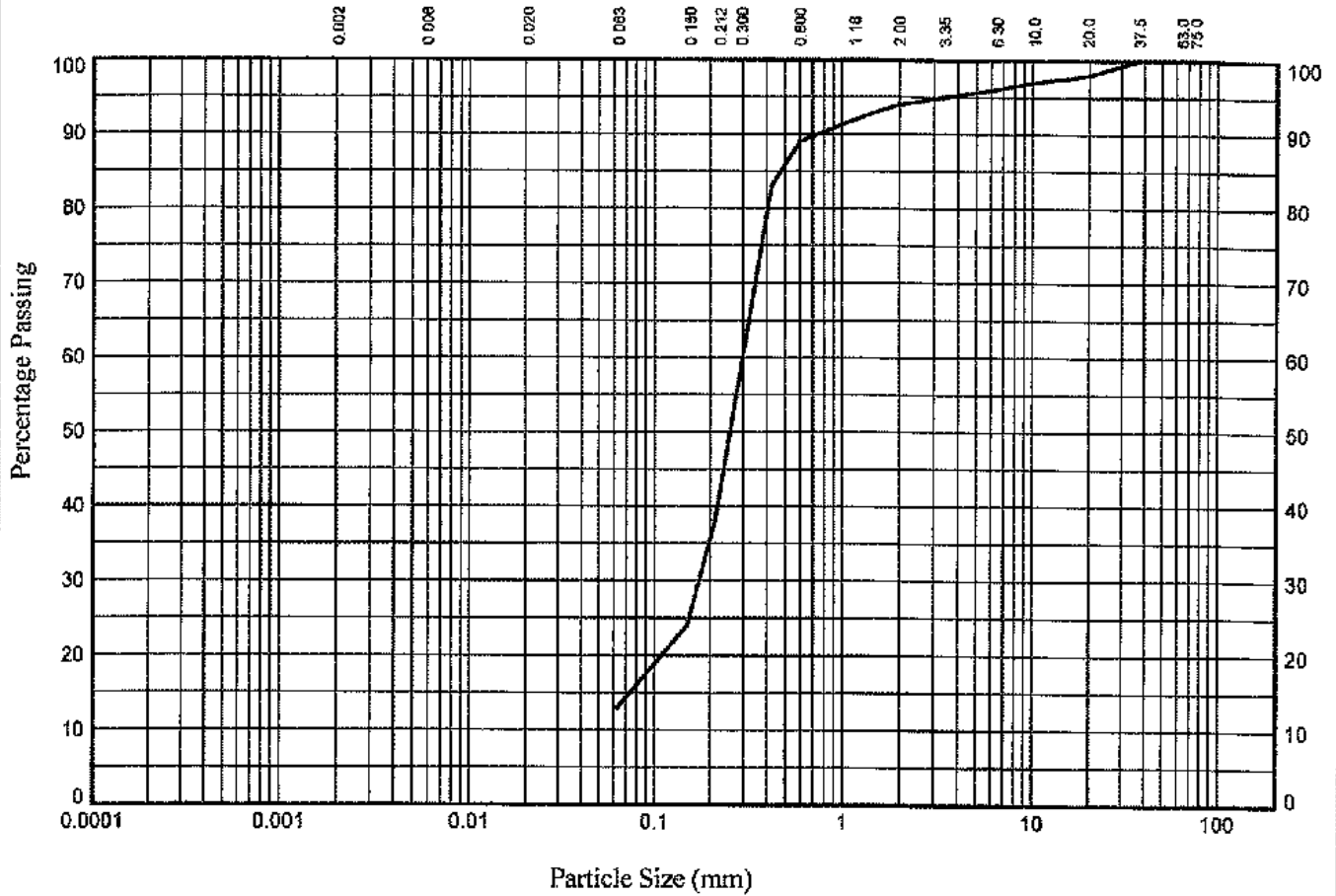
Compiled By	Date	Checked By	Date
[Redacted]	29/01/0	[Redacted]	13/09
Contract		Job No	
Sizewell C Supplementary Investigation		722201	

STRUCTURAL_SOILS_GINT_LIBRARY_08-11-06 CLIBL - PSD | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION GPJ - v6_02 | 29/01/09 - 12:50

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH10A** Sample Ref: **7** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	98
10.0	97
6.30	96
5.00	
3.35	95
2.00	94
1.18	92
0.600	89
0.425	83
0.300	
0.212	38
0.150	24
0.063	13

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	6
SAND	81
SILT/CLAY	13

Soil Description:

Orangish brown mottled greenish brown gravelly silty/clayey SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

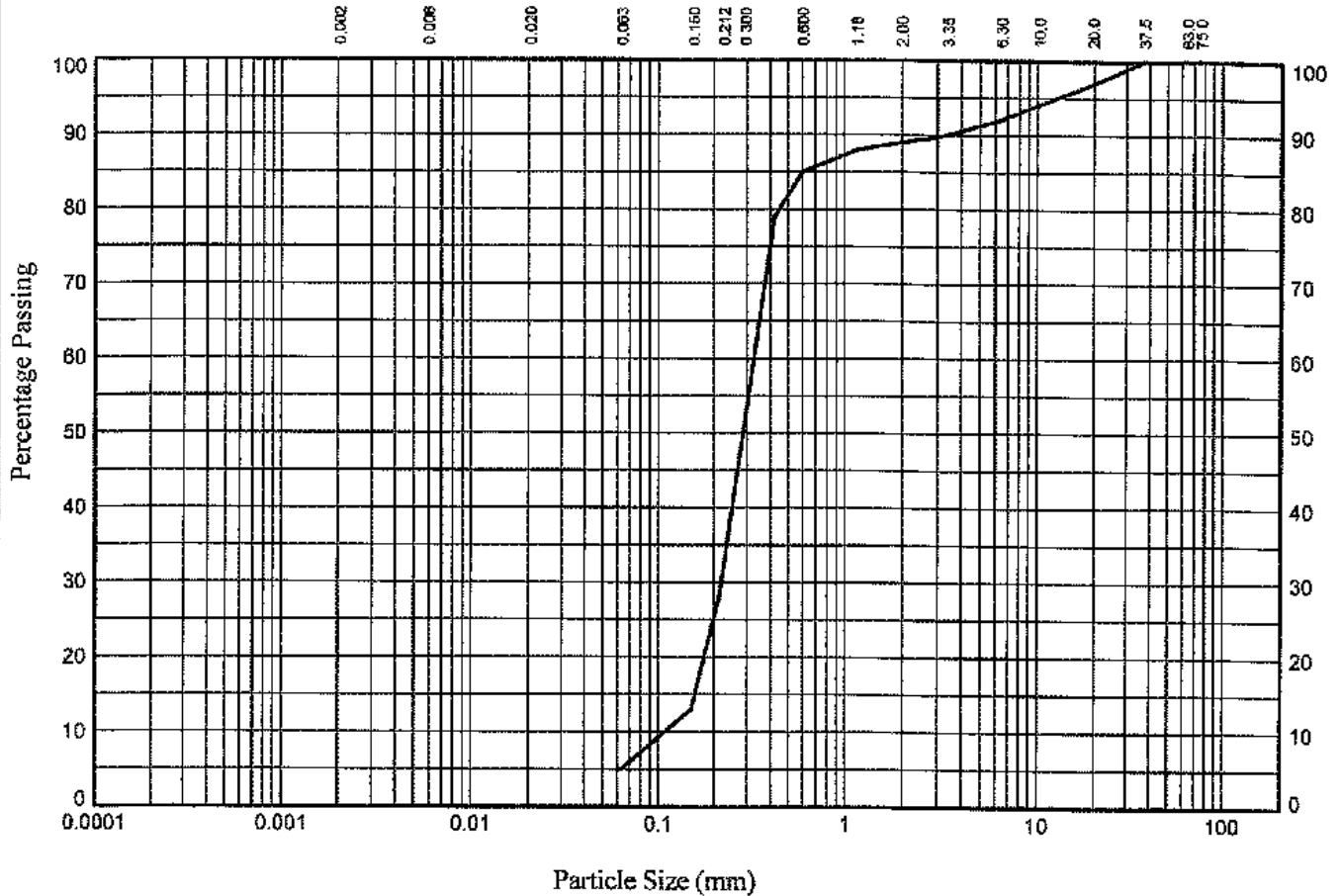
Compiled By	Date	Checked By	Date
[Redacted]	29/01/05	[Redacted]	6/2/05
Contract		JOB NO	
Sizewell C Supplementary Investigation		722201	

STRUCTURAL_SOILS_GINT_LIBRARY_08-11-06.GLBIL - PSD | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_D2 | 29/01/05 - 12:50

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH11** Sample Ref: **7** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	97
10.0	94
6.30	92
5.00	
3.35	90
2.00	89
1.18	88
0.600	85
0.425	79
0.300	
0.212	28
0.150	13
0.063	5

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	11
SAND	84
SILT/CLAY	5

Soil Description:
Brown mottled grey slightly silty/clayey gravelly SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
 The Old School
 Stillhouse Lane
 Bedminster
 Bristol BS3 4EB

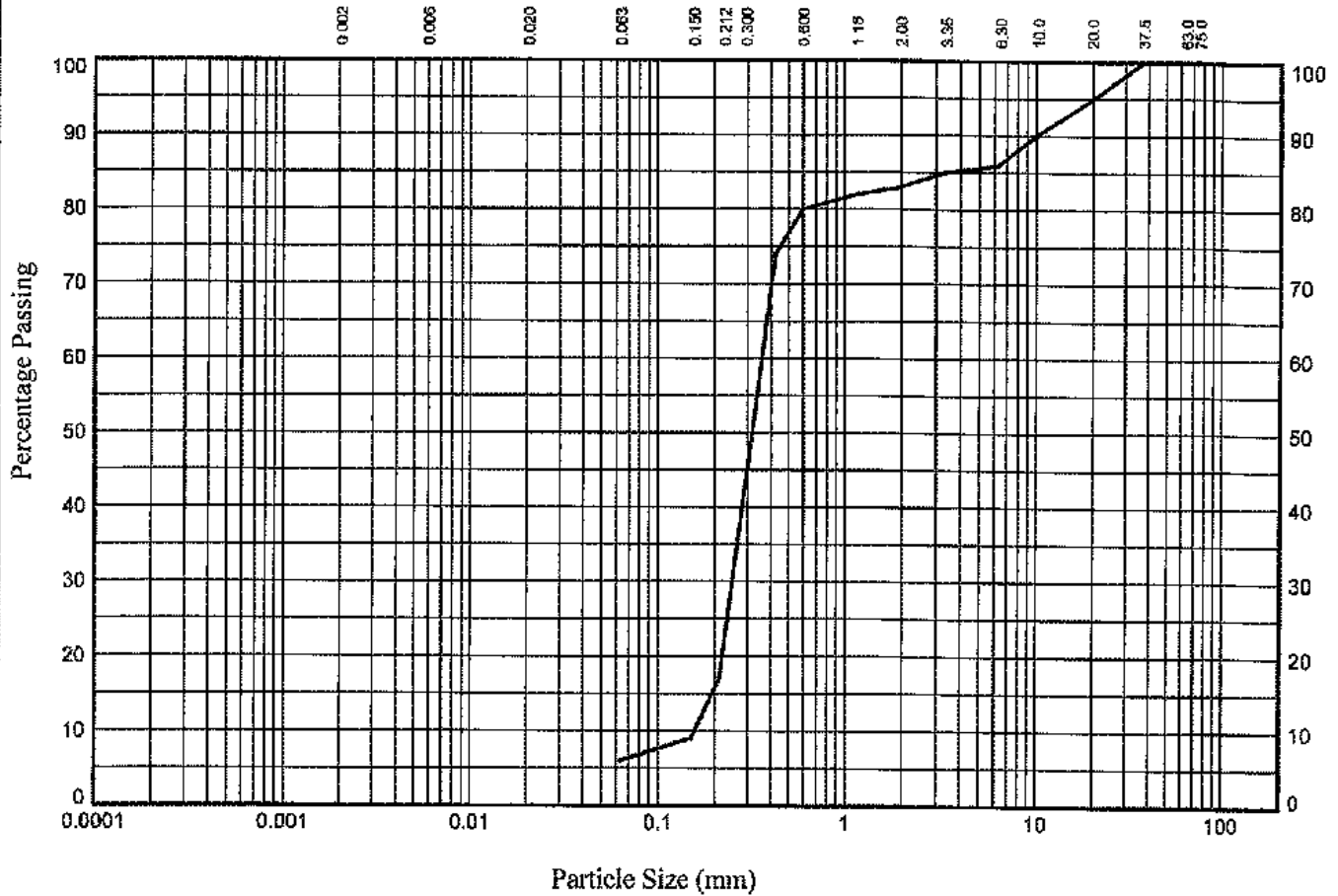
Compiled By	Date	Date
[Redacted]	29/01/09	4/3/09
Contract		Job No
Sizewell C Supplementary Investigation		722201

STRUCTURAL_SOILS_GINT_LIBRARY_06-11-08 GLBIL - PSD | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION_GPJ - v8_02 | 29/01/09 - 12 50

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH12** Sample Ref: **7** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	95
10.0	90
6.30	86
5.00	
3.35	85
2.00	83
1.18	82
0.600	80
0.425	74
0.300	
0.212	17
0.150	9
0.063	6

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	17
SAND	77
SILT/CLAY	6

Soil Description:
Brown mottled grey silty/clayey gravelly SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



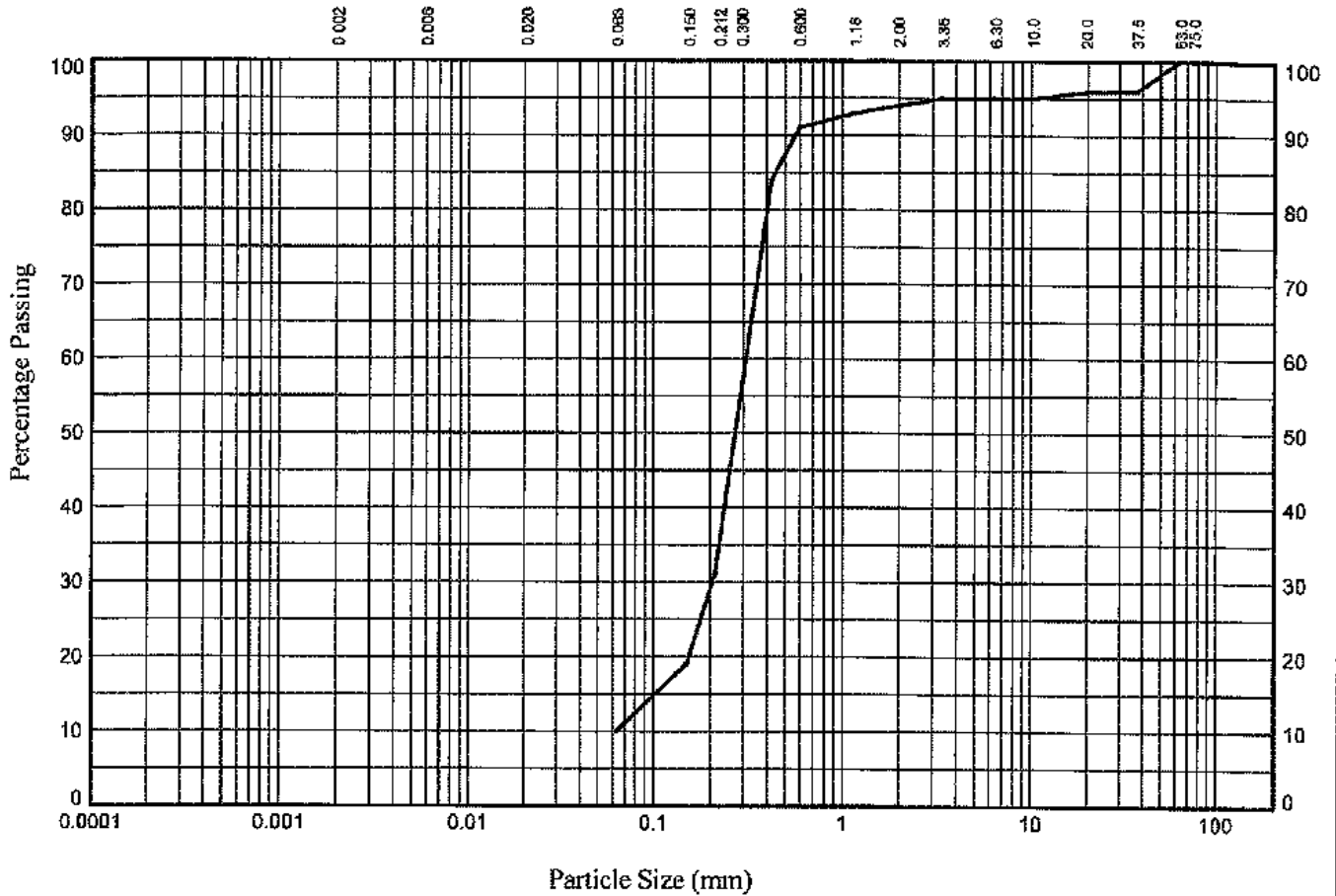
STRUCTURAL SOILS
 The Old School
 Stillhouse Lane
 Bedminster
 Bristol BS3 4EB

Completed By	Date	Checked By	Date
[Redacted]	29/01/09	[Redacted]	6/2/09
Contract		JOB No	
Sizewell C Supplementary Investigation		722201	

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH13A** Sample Ref: **4** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	96
20.0	96
10.0	95
6.30	95
5.00	95
3.35	95
2.00	94
1.18	93
0.600	91
0.425	84
0.300	84
0.212	31
0.150	19
0.063	10

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	6
SAND	84
SILT/CLAY	10

Soil Description:
Orangish brown mottled brown gravelly silty/clayey SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

STRUCTURAL_SOILS_GINT_LIBRARY_08-11-09_GLEIL - PSD | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION_0PJ - v8_02 | 29/01/09 - 12.50



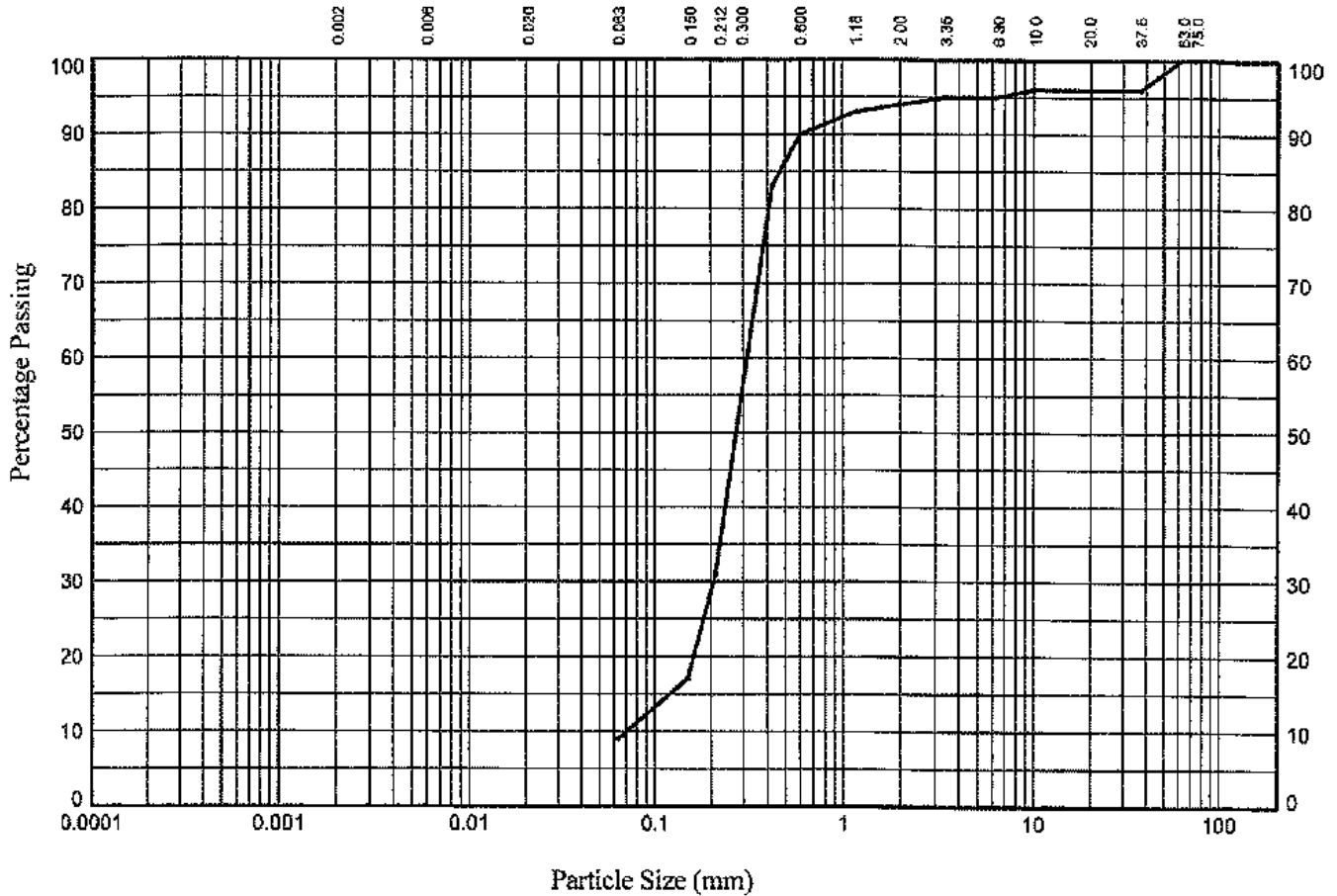
STRUCTURAL SOILS
 The Old School
 Stillhouse Lane
 Bedminster
 Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	29/01/09	[Redacted]	29/01/09
Sizewell C Supplementary Investigation		722201	

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH14** Sample Ref: **11** Sample Type: **B** Depth (m): **4.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			


BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	96
20.0	96
10.0	96
6.30	95
5.00	
3.35	95
2.00	94
1.18	93
0.600	90
0.425	83
0.300	
0.212	31
0.150	17
0.063	9

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	6
SAND	85
SILT/CLAY	9

Soil Description:
Orangish brown mottled greenish grey gravelly silty/clayey SAND

Approved Signatories: **D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN**



STRUCTURAL SOILS
 The Old School
 Stillhouse Lane
 Bedminster
 Bristol BS3 4EB

Compiled By [Redacted]	Date 29/01/09	Job No 722201	Date 03/09
Contract Sizewell C Supplementary Investigation		Job No 722201	

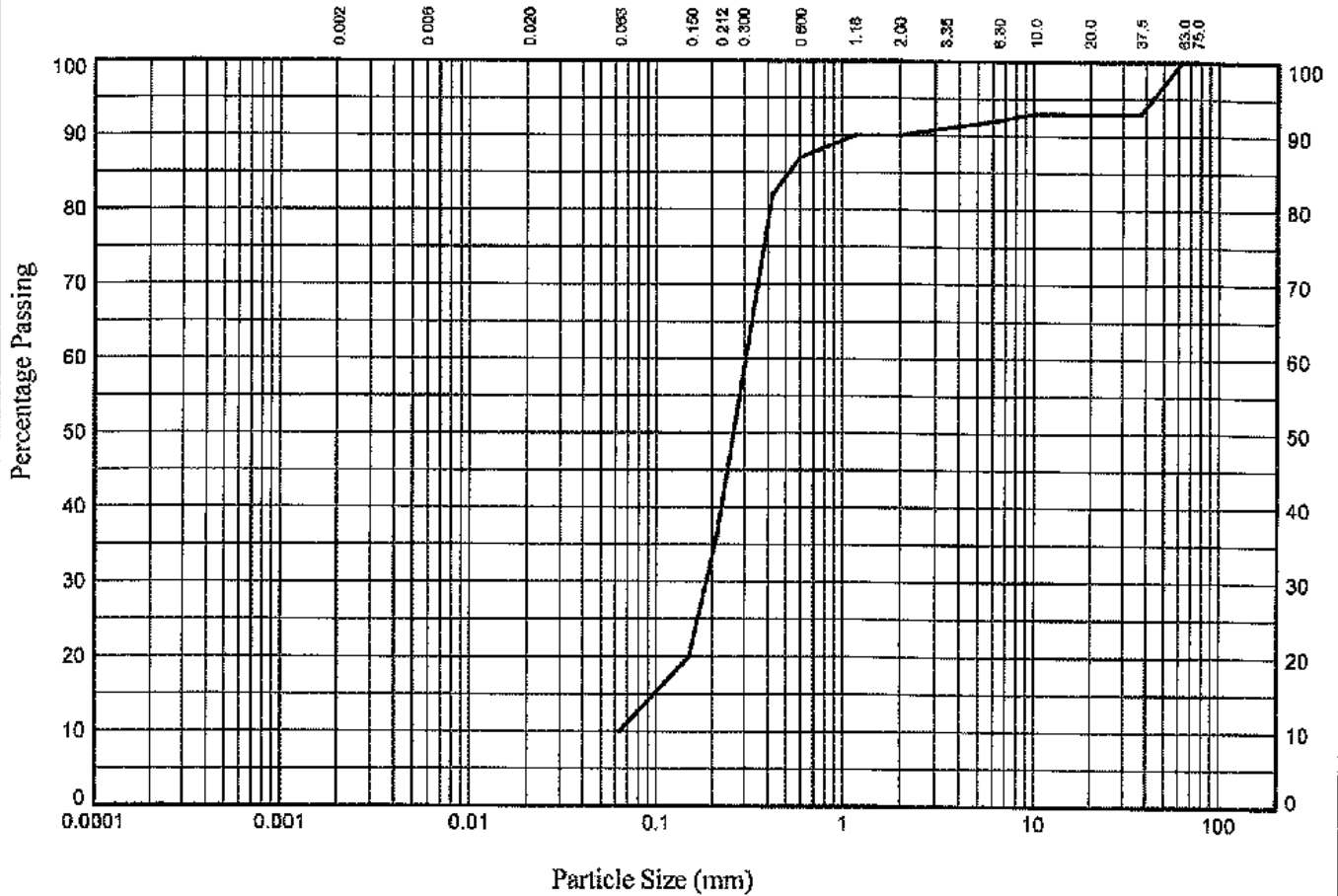


STRUCTURAL_SOILS_GINT_LIBRARY_08-11-08 GLBIL - PSD | 722201 - SIZEWELL_C - SUPPLEMENTARY_INVESTIGATION.GPJ - v8_D2 | 29/01/09 - 12:50

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH16** Sample Ref: **2** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	93
20.0	93
10.0	93
6.30	92
5.00	
3.35	91
2.00	90
1.18	90
0.600	87
0.425	82
0.300	
0.212	36
0.150	20
0.063	10

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	10
SAND	80
SILT/CLAY	10

Soil Description:
Orangish brown mottled greenish grey silty/clayey gravelly SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



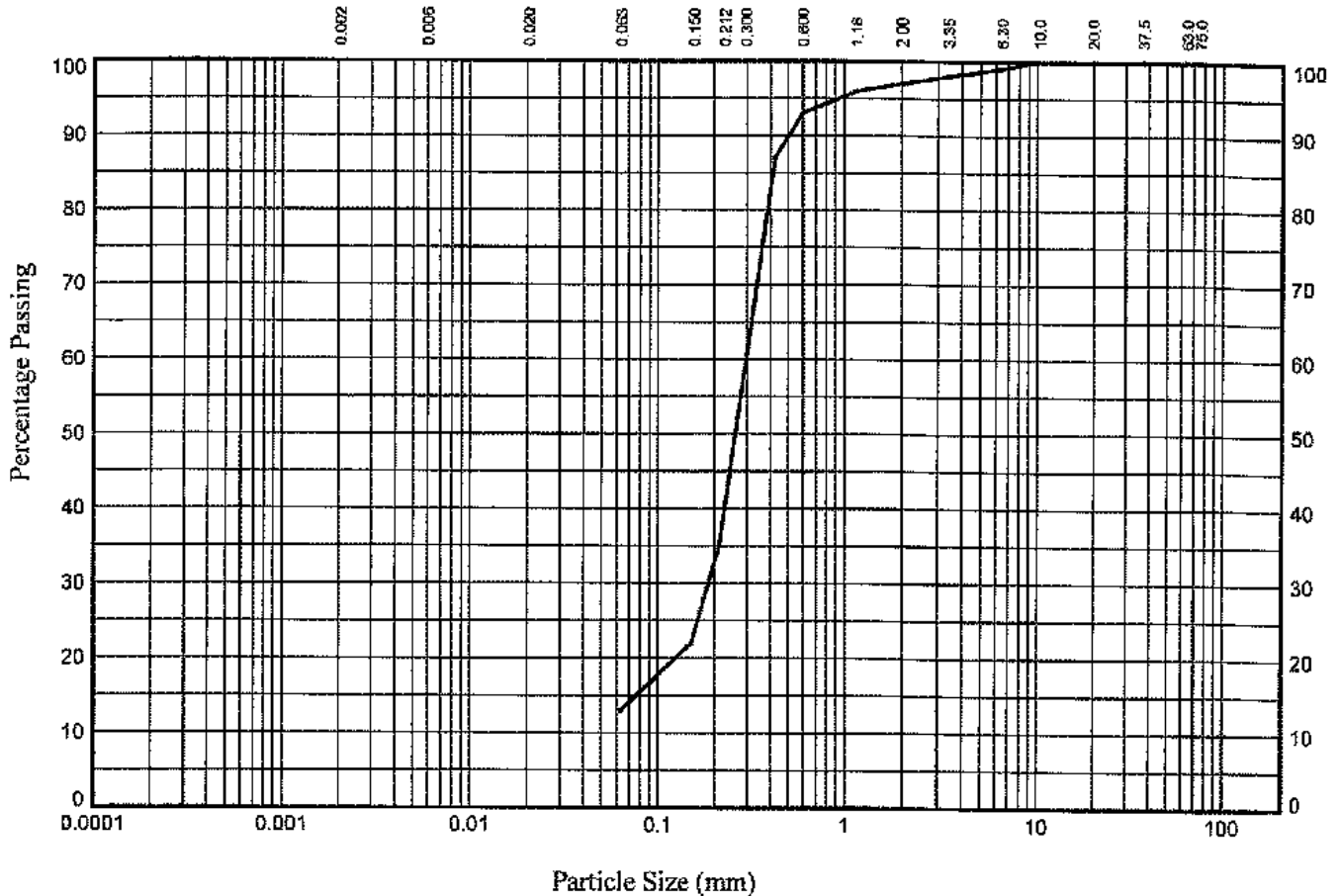
STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	29/01/09	[Redacted]	12/09
Sizewell C Supplementary Investigation		722201	AGS

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2, 9.5 of BS1377:Part 2:1990

Borehole : **BH17** Sample Ref: **7** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			



BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	99
5.00	
3.35	98
2.00	97
1.18	96
0.600	93
0.425	87
0.300	
0.212	35
0.150	22
0.063	13

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	3
SAND	84
SILT/CLAY	13

Soil Description:
Brown mottled orangish brown slightly gravelly silty/clayey SAND

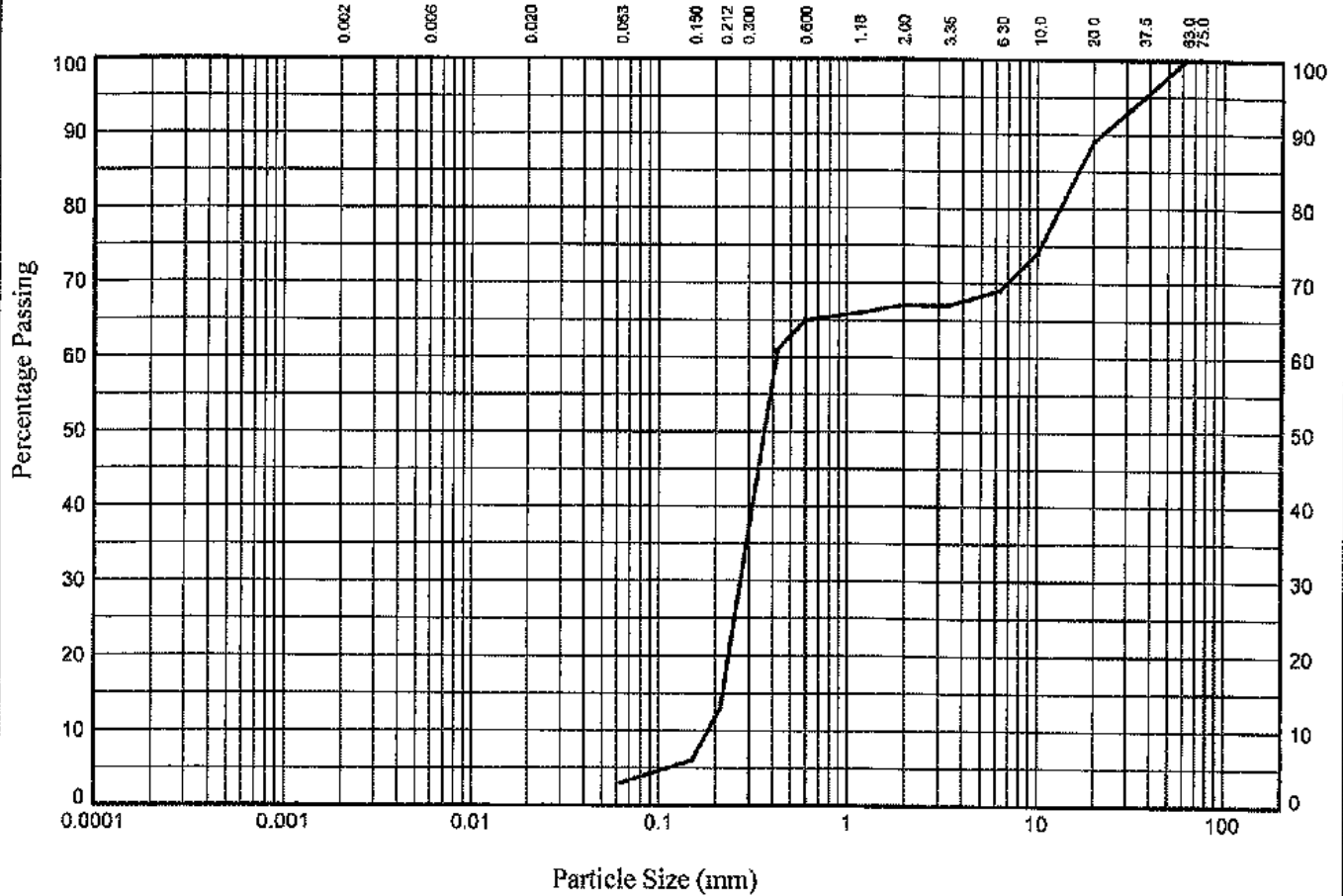
Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

	STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By [Redacted]	Date 29/01/07	Client Ref [Redacted]	Date [Redacted]
		Sizewell C Supplementary Investigation		Job No 722201	

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH18** Sample Ref: **2** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	95
20.0	89
10.0	74
6.30	69
5.00	
3.35	67
2.00	67
1.18	66
0.600	65
0.425	61
0.300	
0.212	13
0.150	6
0.063	3

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	33
SAND	64
SILT/CLAY	3

Soil Description:
Brown mottled grey slightly silty/clayey very gravelly SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
 The Old School
 Stillhouse Lane
 Bedminster
 Bristol BS3 4EB

Contract Sizewell C Supplementary Investigation	Date 29/01/09	Date 2/3/09	Job No 722201
---	-------------------------	-----------------------	-------------------------

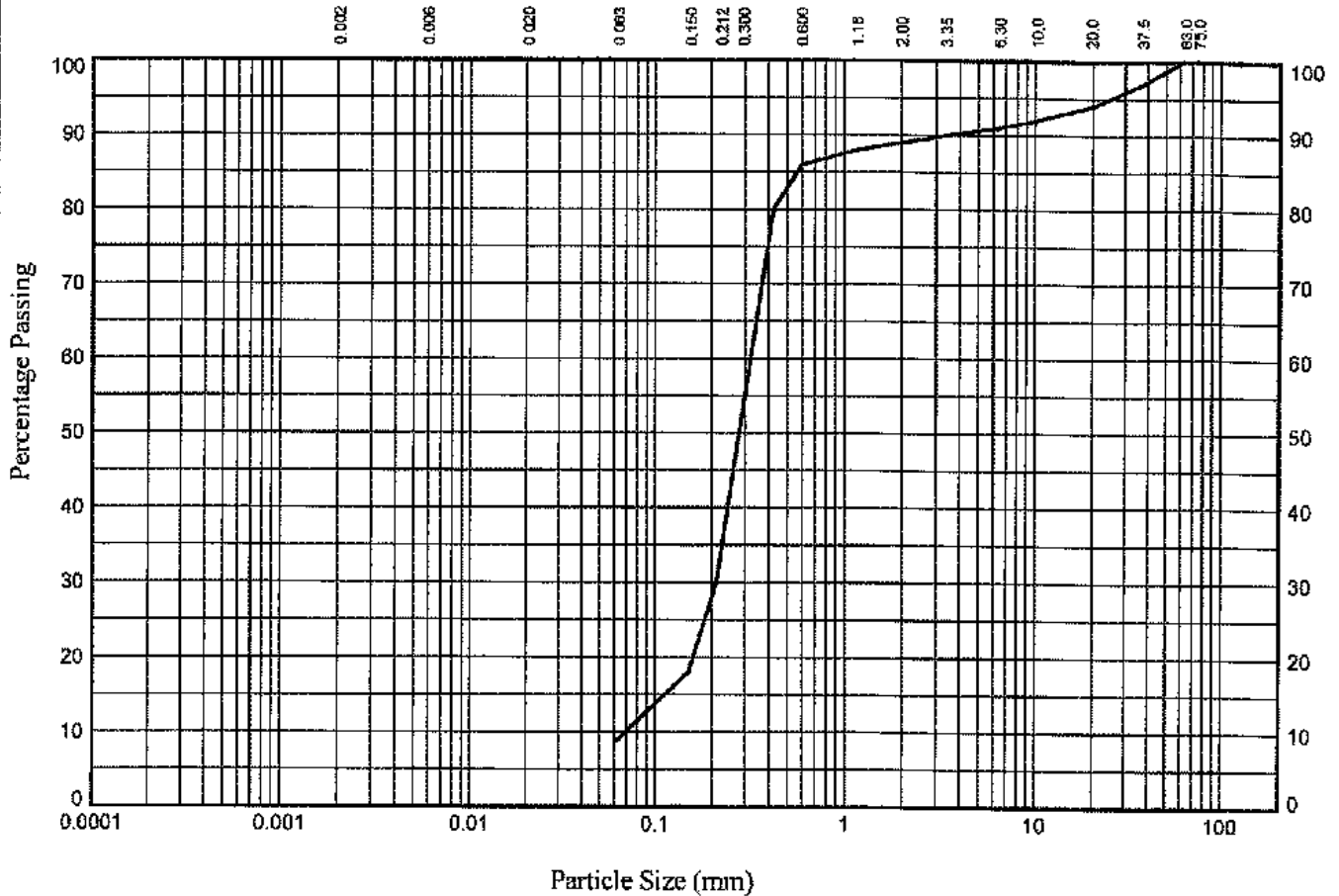


STRUCTURAL_SOILS_GINT_LIBRARY_08-11-06.GLB.L - PSD | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.OPJ - v8_02 | 29/01/09 - 12.50.

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH19A** Sample Ref: **2** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	97
20.0	94
10.0	92
6.30	91
5.00	
3.35	90
2.00	89
1.18	88
0.600	86
0.425	80
0.300	
0.212	30
0.150	18
0.063	9

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	11
SAND	80
SILT/CLAY	9

Soil Description:
Brown mottled orangish brown silty/clayey gravelly SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



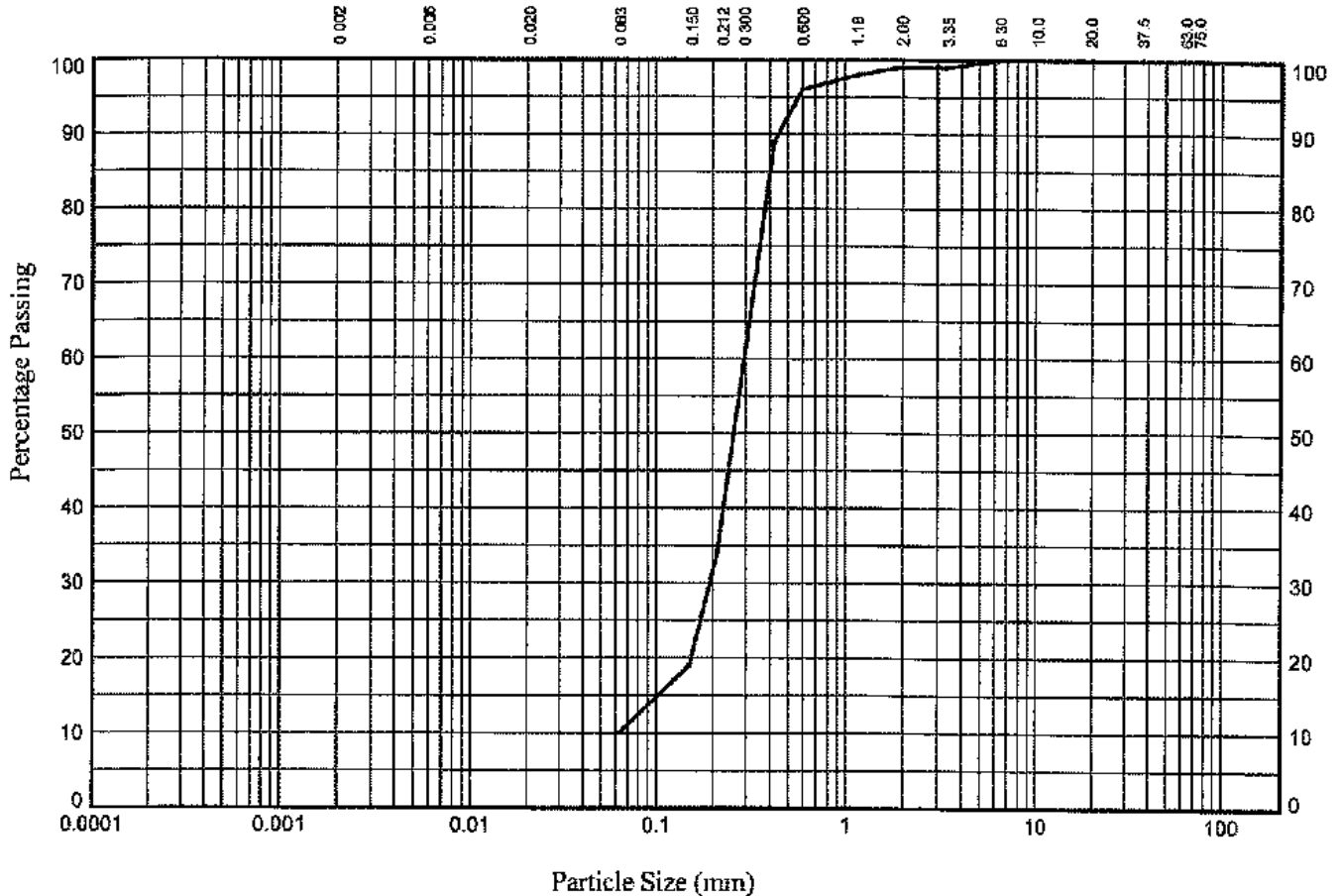
STRUCTURAL SOILS
 The Old School
 Stillhouse Lane
 Bedminster
 Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	29/01/09	[Redacted]	6/3/09
Contract		Sub No	
Sizewell C Supplementary Investigation		722201	

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH20** Sample Ref: **3** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
5.00	100
3.35	99
2.00	99
1.18	98
0.600	96
0.425	89
0.300	
0.212	34
0.150	19
0.063	10

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	1
SAND	89
SILT/CLAY	10

Soil Description:
Brown mottled orangish brown slightly gravelly silty/clayey SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

STRUCTURAL SOILS
 The Old School
 Stillhouse Lane
 Bedminster
 Bristol BS3 4EB

Compiled By	Date
[REDACTED]	29/01/09
Sizewell C Supplementary Investigation	

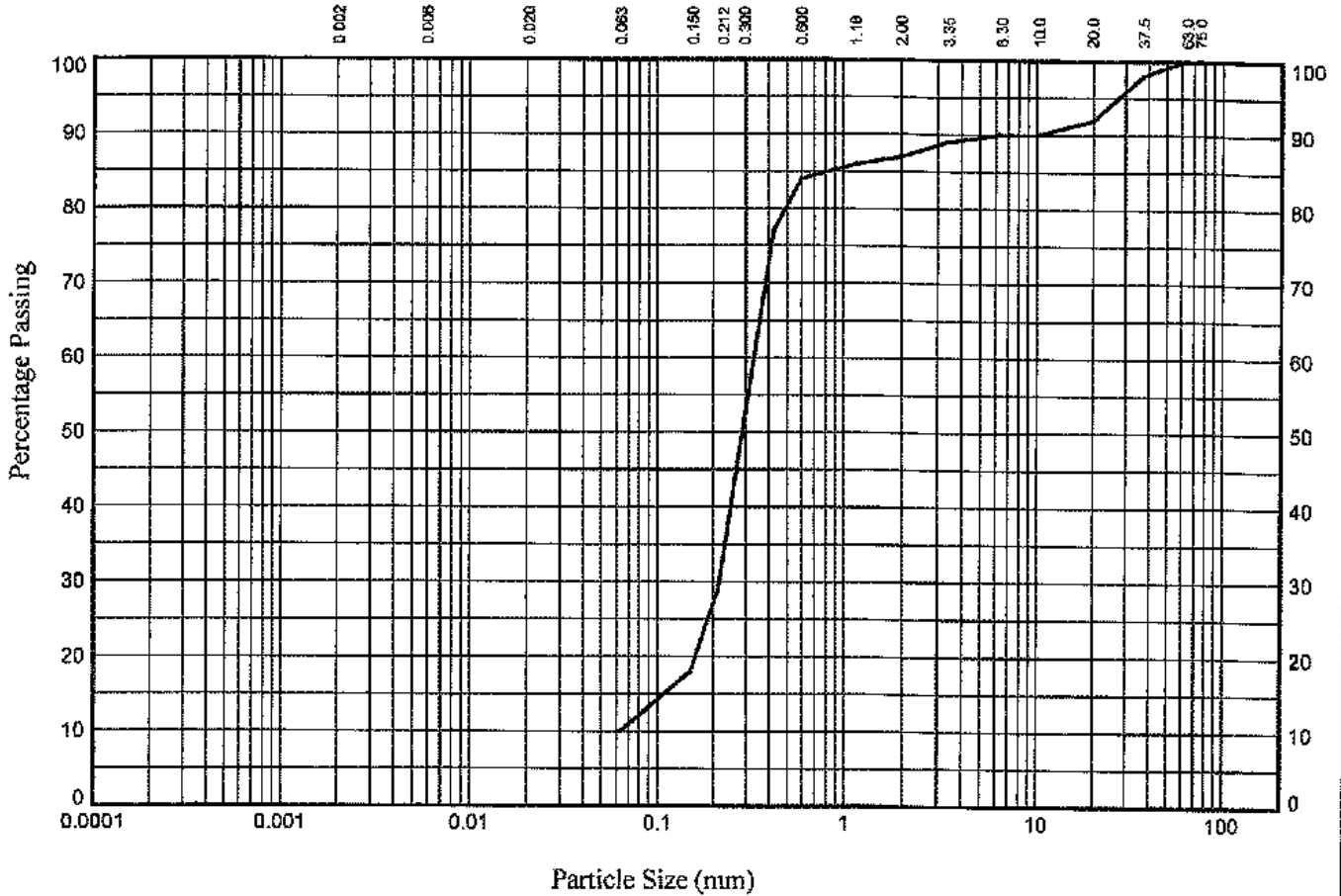
Checked By	Date
[REDACTED]	4/3/09
Job No	
722201	

STRUCTURAL_SOILS_GINT_LIBRARY_08-11-08 GLBIL - PSD | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 29/01/09 - 12:50

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH21** Sample Ref: **2** Sample Type: **B** Depth (m): **2.60**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	98
20.0	92
10.0	90
6.30	90
5.00	
3.35	89
2.00	87
1.18	86
0.600	84
0.425	77
0.300	
0.212	29
0.150	18
0.063	10

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	13
SAND	77
SILT/CLAY	10

Soil Description:
Brown mottled orangish brown silty/clayey gravelly SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
 The Old School
 Stillhouse Lane
 Bedminster
 Bristol BS3 4EB

[REDACTED]

Contract
Sizewell C Supplementary Investigation

Date
 29/01/09

Checked By
 [REDACTED]

Date
 4/3/09

JOB NO
722201

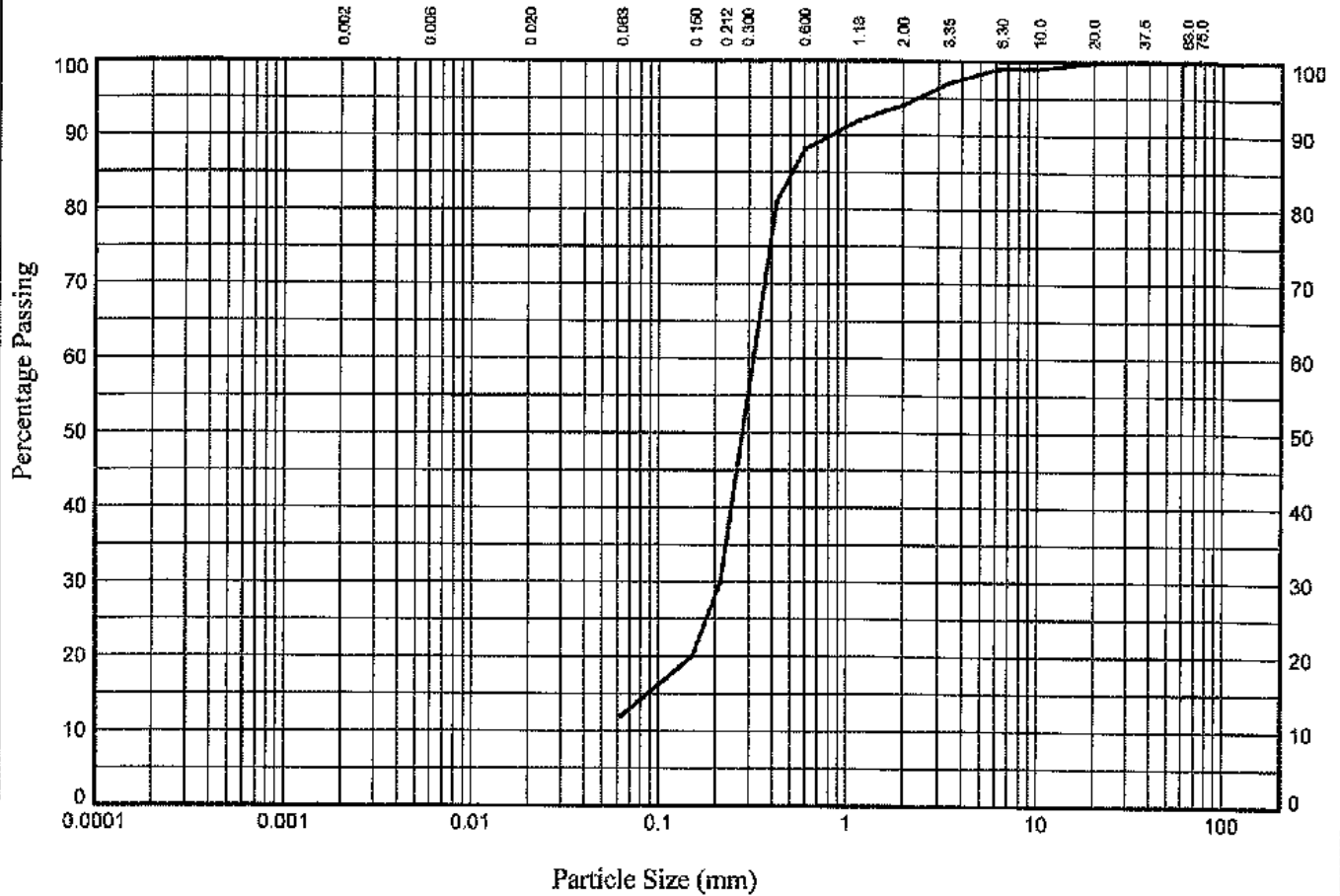


STRUCTURAL_SOILS_GINT_LIBRARY_08-11-08_GLBH - PSD | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.SPJ - v8_02 | 28/01/09 - 12:50

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH22** Sample Ref: **7** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			



BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	99
6.30	99
5.00	
3.35	97
2.00	94
1.18	92
0.600	88
0.425	81
0.300	
0.212	30
0.150	20
0.063	12

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	6
SAND	82
SILT/CLAY	12

Soil Description:
Orangish brown mottled brown gravelly silty/clayey SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

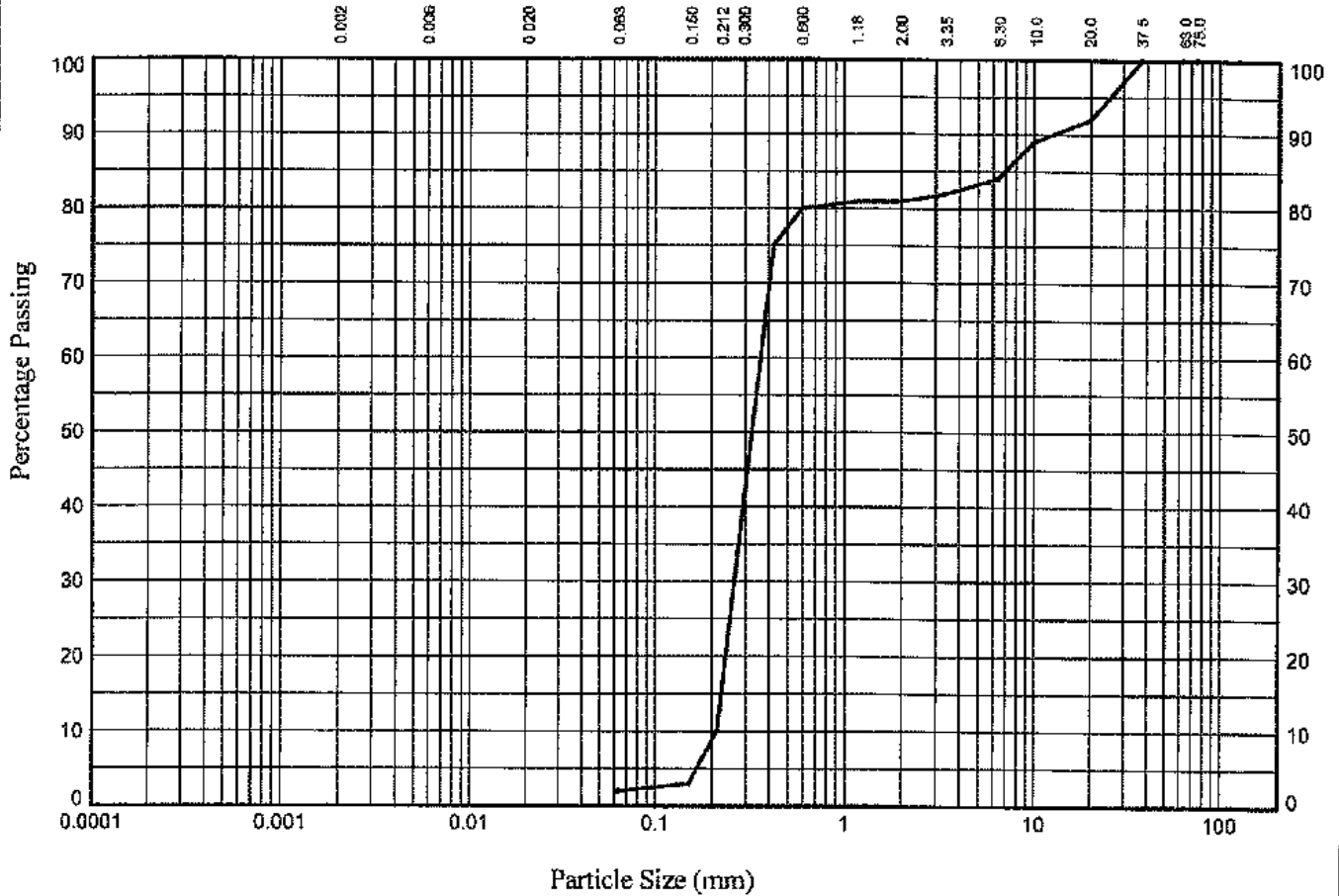
 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By		Date	Client Ref	Date
	<div style="background-color: black; color: black;">[REDACTED]</div>			29/01/09	<div style="background-color: black; color: black;">[REDACTED]</div>
Sizewell C Supplementary Investigation				Job No	722201
					

STRUCTURAL_SOILS_GINT_LIBRARY_08-11-06 GLBL.PSD | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 29/01/09 - 12 50.

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH23** Sample Ref: **2** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	92
10.0	89
6.30	84
5.00	
3.35	82
2.00	81
1.18	81
0.600	80
0.425	75
0.300	
0.212	10
0.150	3
0.063	2

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	19
SAND	79
SILT/CLAY	2

Soil Description:
Brown mottled grey slightly silty gravelly SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

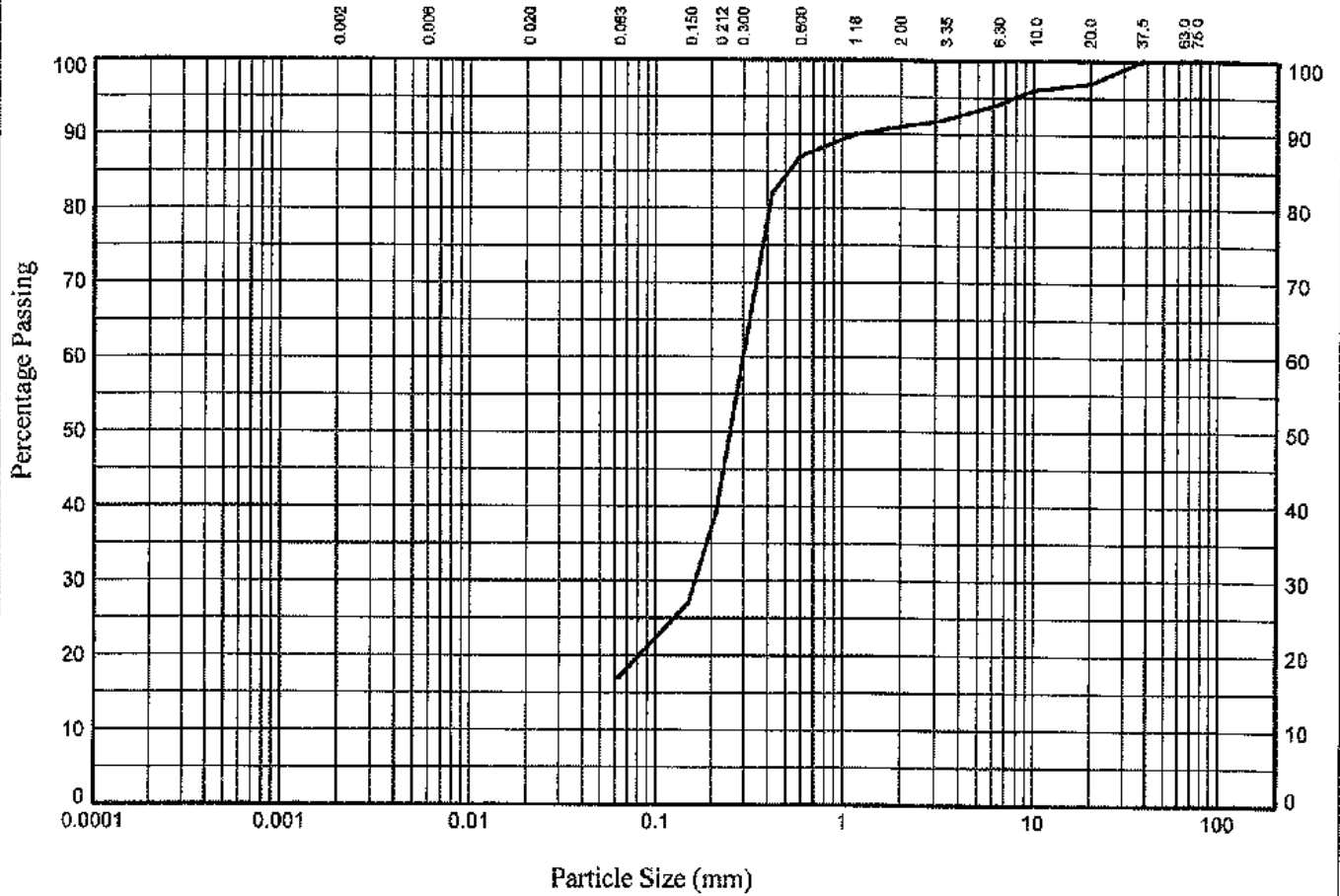
<p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By: [Redacted]	Date: 29/01/09	Date: 13/09
	Contract: Sizewell C Supplementary Investigation	Job No: 722201	

STRUCTURAL_SOILS_GINT_LIBRARY_08-11-08.GLBIL - PSD | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION OF J - v8_02 | 29/01/09 - 12.50

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH24** Sample Ref: **2** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	97
10.0	96
6.30	94
5.00	
3.35	92
2.00	91
1.18	90
0.600	87
0.425	82
0.300	
0.212	39
0.150	27
0.063	17

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	9
SAND	74
SILT/CLAY	17

Soil Description:
Orangish brown gravelly silty/clayey SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

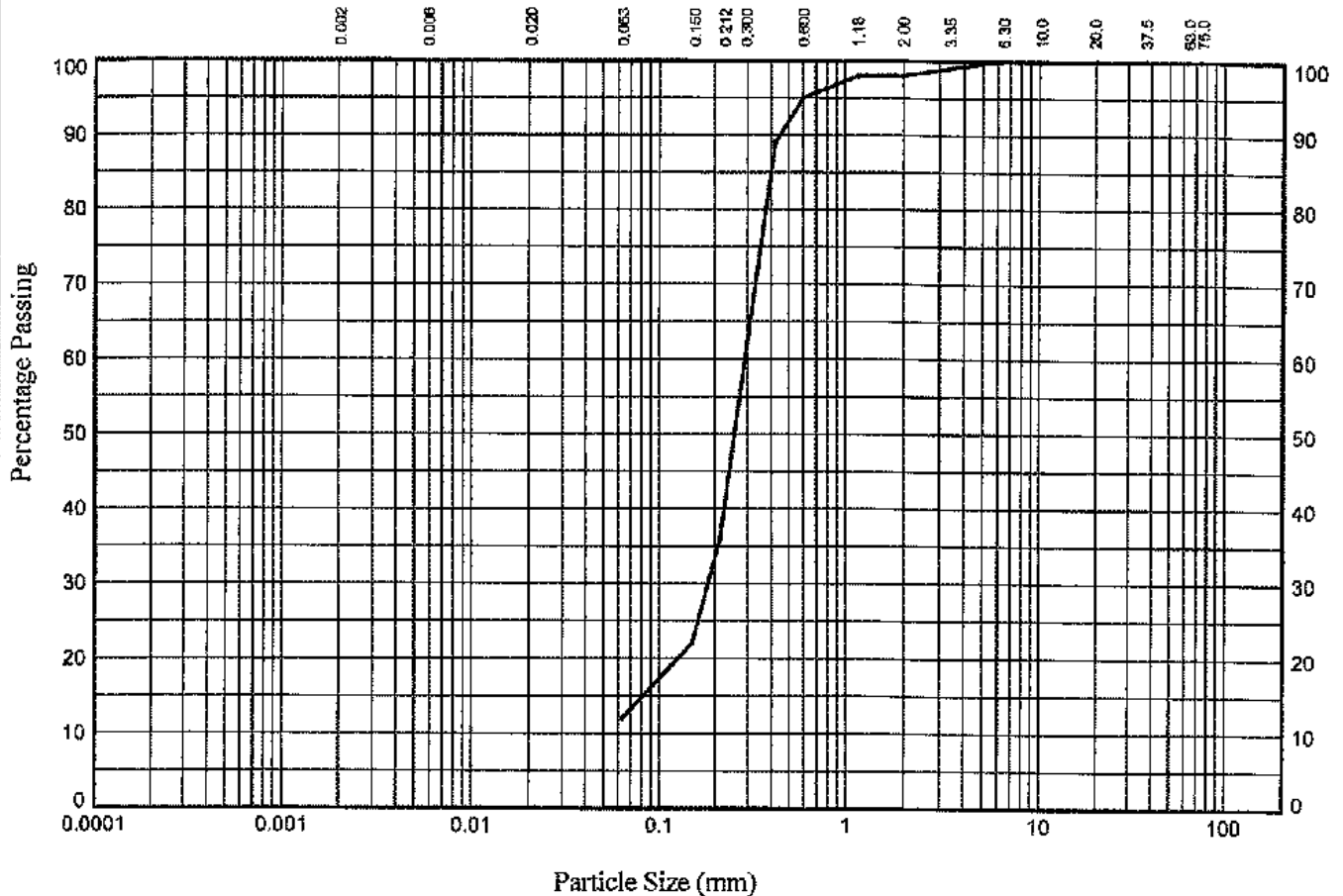
Compiled By	Date	Checked By	Date
[REDACTED]	29/01/09	[REDACTED]	6/3/09
Contract		JOB NO	
Sizewell C Supplementary Investigation		722201	

STRUCTURAL_SOILS_GINT_LIBRARY_08-11-06.GLBIL_FSD_722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 29/01/09 - 12:50

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH25** Sample Ref: **7** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing	Particle Diameter	Percentage Passing	Soil Fraction	Sieve Percentage
125.0	100				
75.0	100				
63.0	100			GRAVEL	2
37.5	100				
20.0	100			SAND	86
10.0	100				
6.30	100				
5.00				SILT/CLAY	12
3.35	99				
2.00	98				
1.18	98				
0.600	95				
0.425	89				
0.300					
0.212	36				
0.150	22				
0.063	12				

Soil Description:
Orangish brown mottled greenish brown slightly gravelly silty/clayey SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
 The Old School
 Stillhouse Lane
 Bedminster
 Bristol BS3 4EB

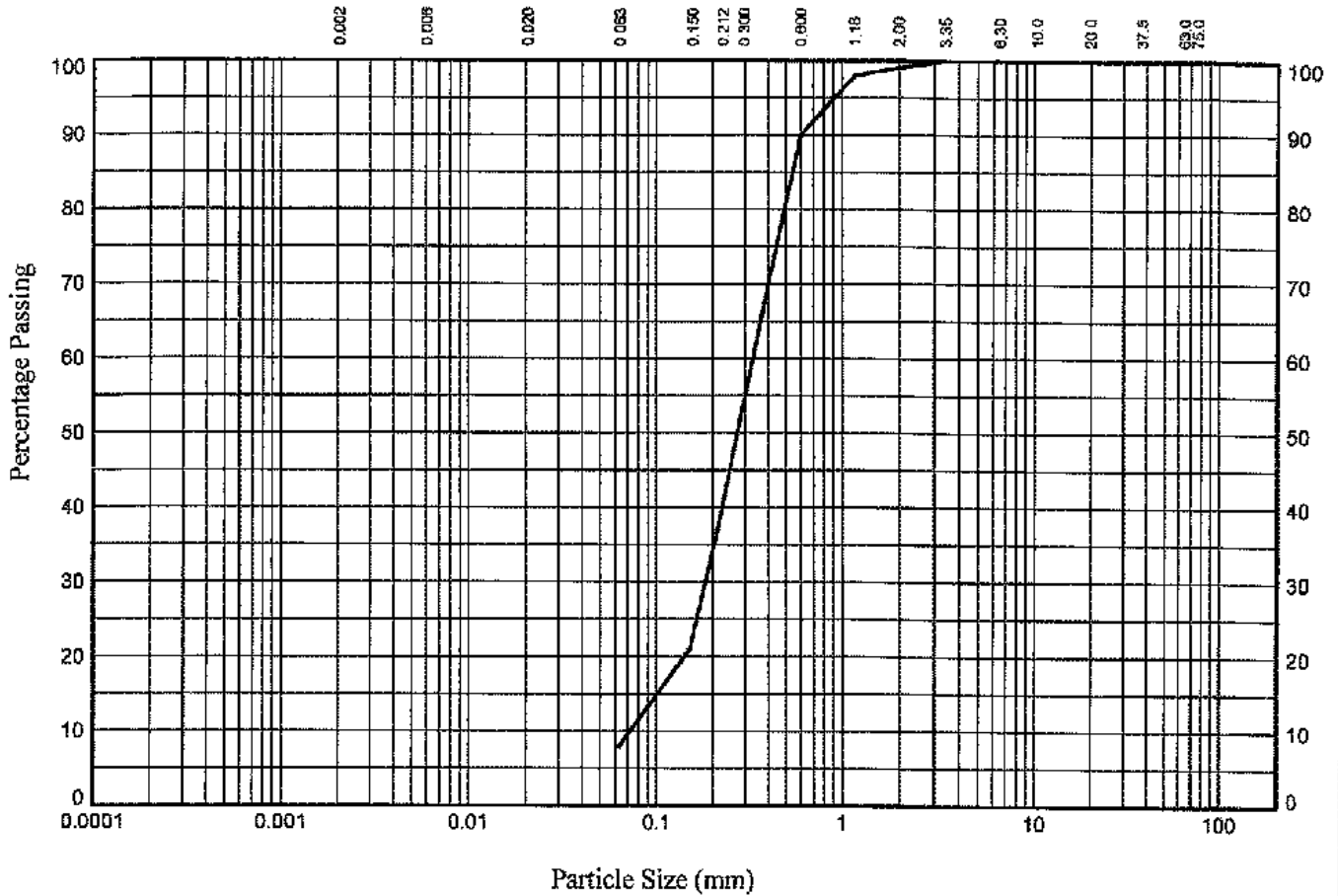
Compiled By	Date	Checked By	Date
[REDACTED]	29/01/09	[REDACTED]	6/3/09
Contract		Job No	
Sizewell C Supplementary Investigation		722201	



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH26** Sample Ref: **6** Sample Type: **B** Depth (m): **9.20**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
5.00	100
3.35	100
2.00	99
1.18	98
0.600	90
0.425	73
0.300	37
0.212	21
0.150	21
0.063	8

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	1
SAND	91
SILT/CLAY	8

Soil Description:
Brown mottled orangish brown slightly gravelly silty/clayey SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
 The Old School
 Stillhouse Lane
 Bedminster
 Bristol BS3 4EB

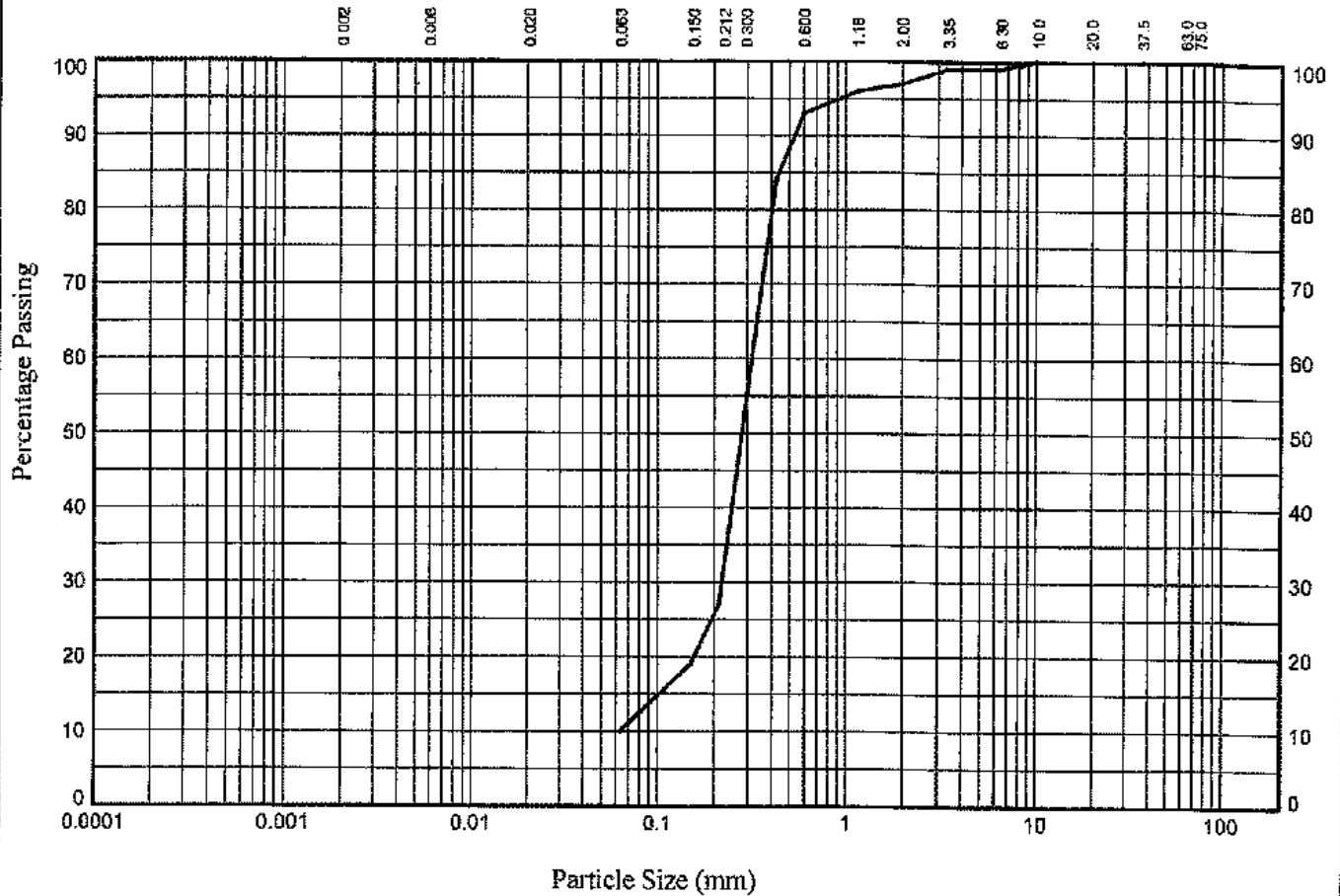
Compiled By	Date	Checked By	Date
[Redacted]	29/01/09	[Redacted]	16/3/09
Contract		722201	
Sizewell C Supplementary Investigation		722201	



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH27** Sample Ref: **8** Sample Type: **B** Depth (m): **14.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	99
5.00	
3.35	99
2.00	97
1.18	96
0.600	93
0.425	84
0.300	
0.212	27
0.150	19
0.063	10

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	3
SAND	87
SILT/CLAY	10

Soil Description:
Brown slightly gravelly silty/clayey SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	29/01/09	[Redacted]	6/2/09
Contract		Job No	
Sizewell C Supplementary Investigation		722201	

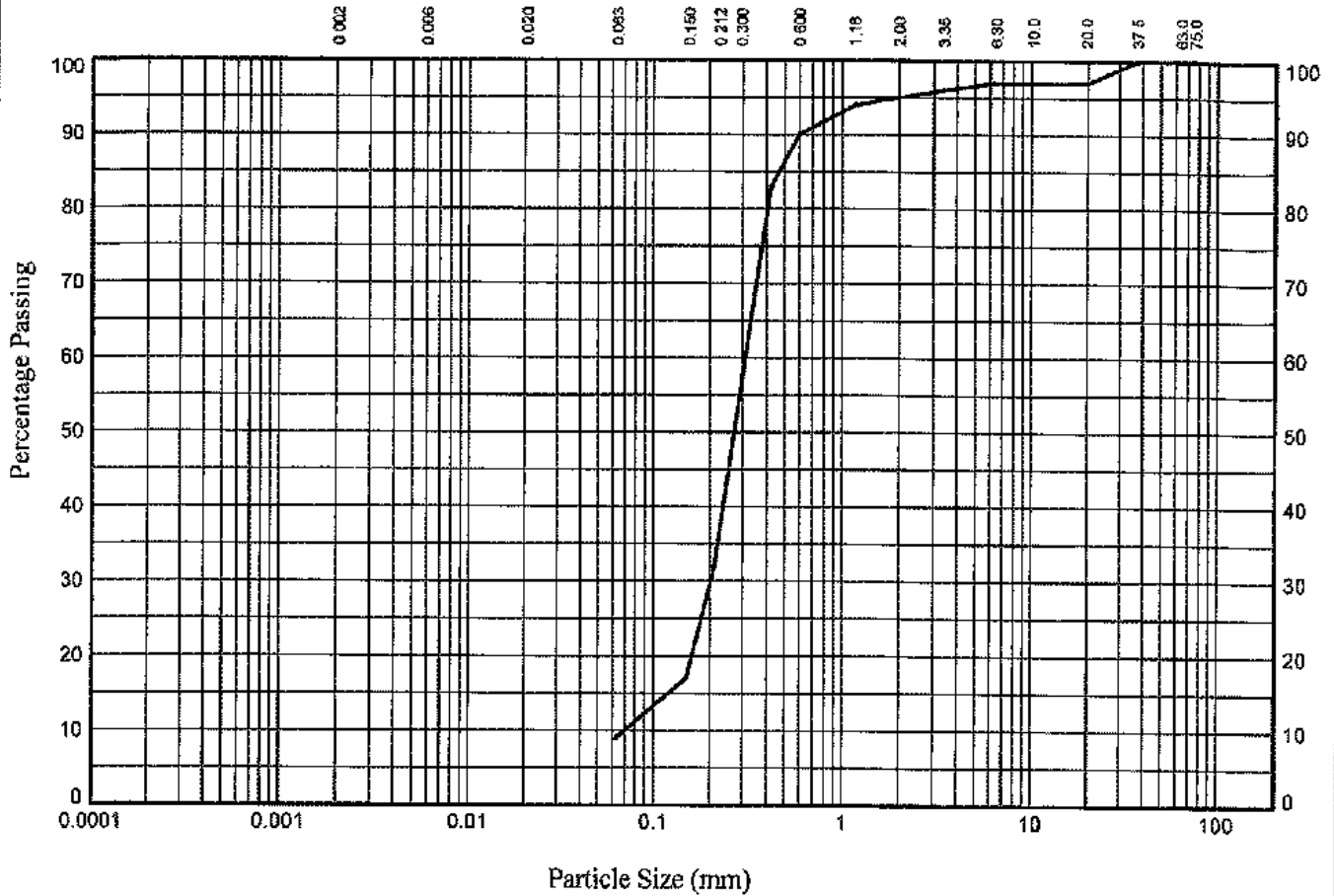
STRUCTURAL_SOILS_GINT_LIBRARY_08-11-06 GLBL - PSD | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v6_02 | 29/01/09 - 12:50



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH28** Sample Ref: **2** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	97
10.0	97
6.30	97
5.00	97
3.35	96
2.00	95
1.18	94
0.600	90
0.425	83
0.300	
0.212	32
0.150	17
0.063	9

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	5
SAND	86
SILT/CLAY	9

Soil Description:
Brown mottled orange slightly gravelly silty/clayey SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

STRUCTURAL_SOILS_GINT_LIBRARY_08-11-05:GLBL - PSD | 722201_SIZWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - vb_02 | 29/01/09 - 12:50.



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

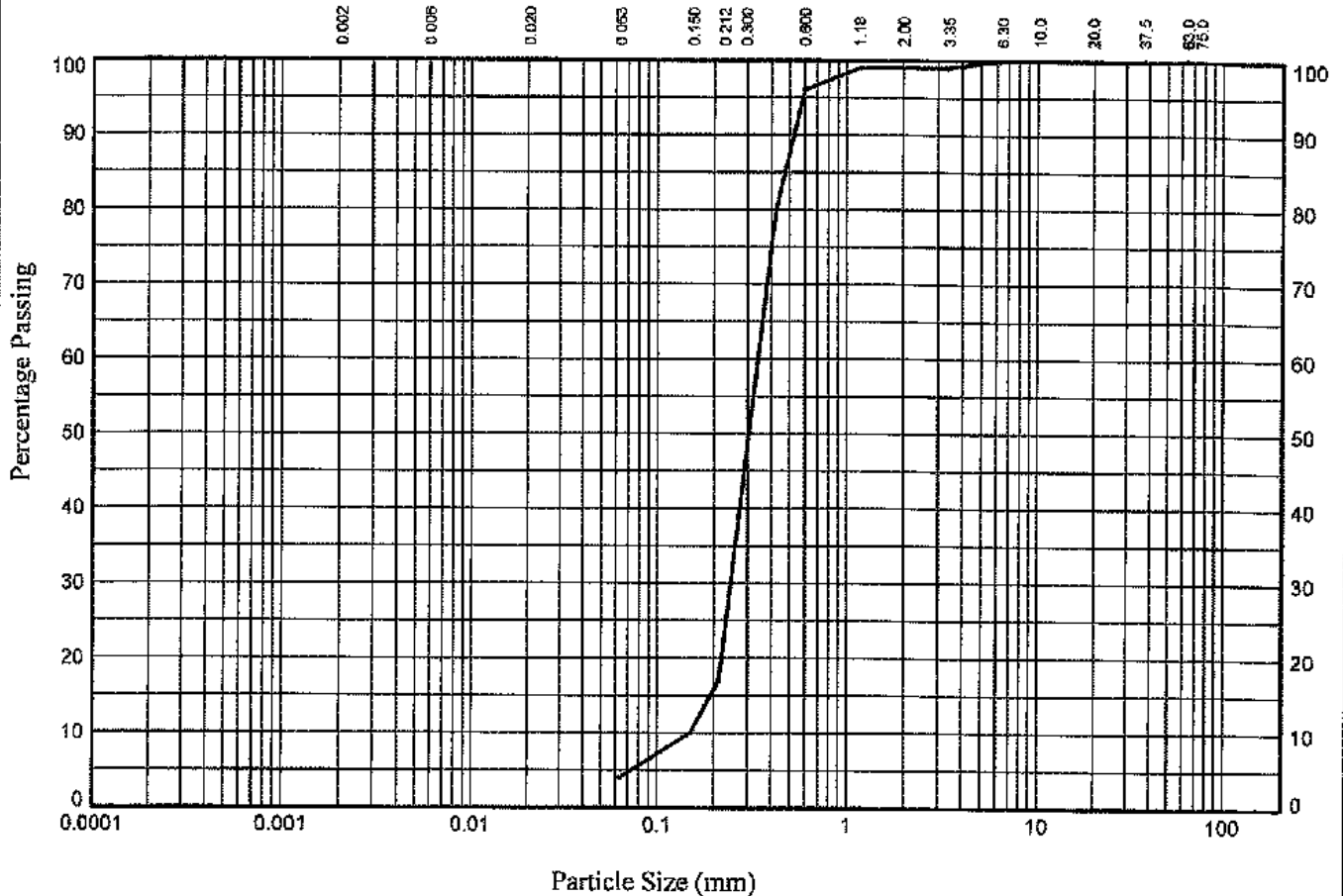
Compiled By		Date		Checked By		Date	
[REDACTED]		29/01/09		[REDACTED]		29/09	
Contract				700740			
Sizewell C Supplementary Investigation				722201			



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH31** Sample Ref: **3** Sample Type: **B** Depth (m): **4.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
5.00	100
3.35	99
2.00	99
1.18	99
0.600	96
0.425	80
0.300	
0.212	17
0.150	10
0.063	4

Particle Diameter	Percentage Passing	Soil Fraction	Sieve Percentage
		GRAVEL	1
		SAND	95
		SILT/CLAY	4

Soil Description:
Orangish brown slightly gravelly slightly silty/clayey SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
 The Old School
 Stillhouse Lane
 Bedminster
 Bristol BS3 4EB

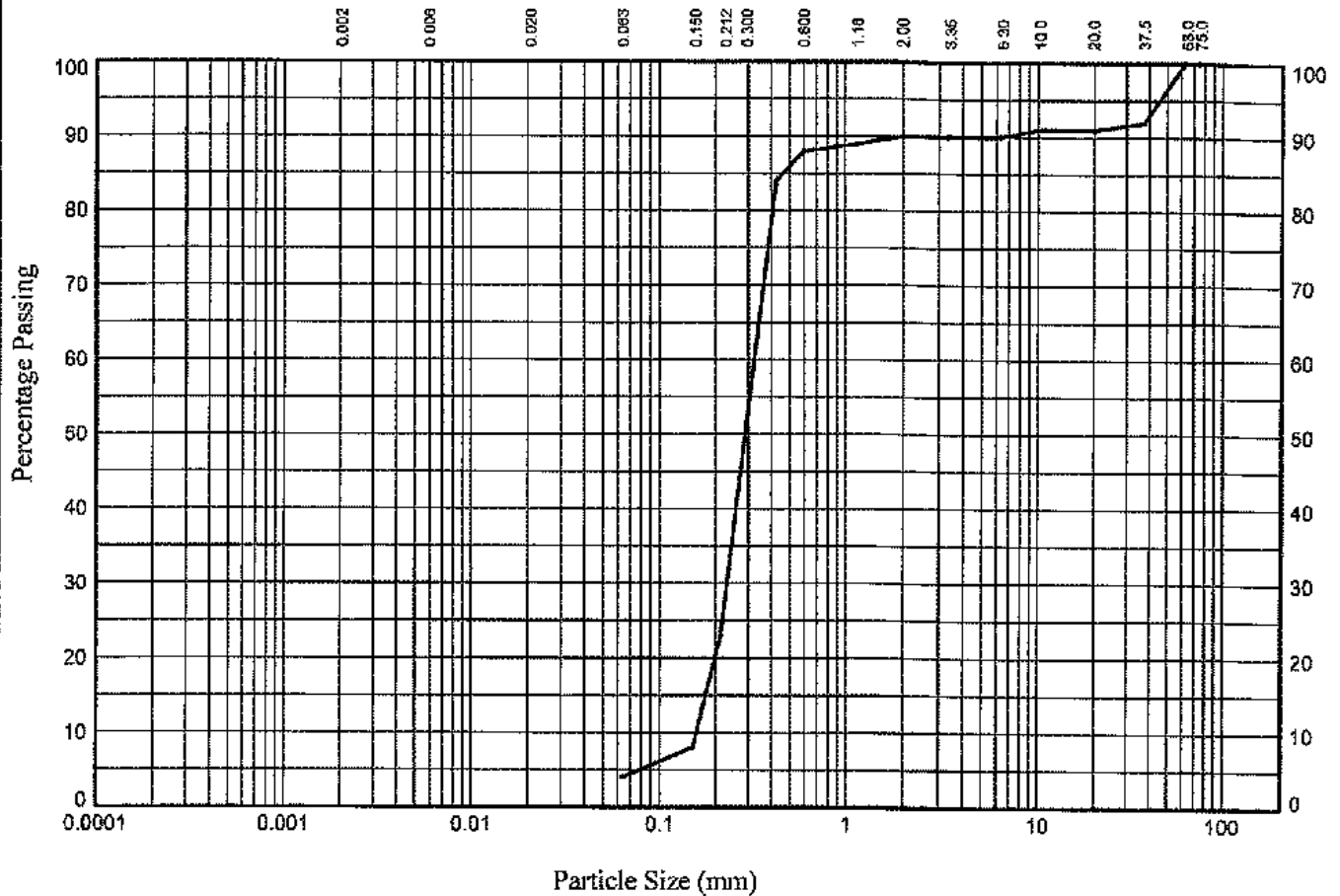
Compiled By	Date	Checked By	Date
[Redacted]	29/01/09	[Redacted]	6/3/09
Contract		Job No	
Sizewell C Supplementary Investigation		722201	



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH33** Sample Ref: **3** Sample Type: **B** Depth (m): **4.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	92
20.0	91
10.0	91
6.30	90
5.00	90
3.35	90
2.00	90
1.18	89
0.600	88
0.425	84
0.300	23
0.212	8
0.150	4
0.063	4

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	10
SAND	86
SILT/CLAY	4

Soil Description:
Brown mottled greenish grey slightly silty/clayey gravelly SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

STRUCTURAL_SOILS_GINT_LIBRARY_08-11-08.GLBIL - PSD | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_D2 | 29/01/09 - 12:50

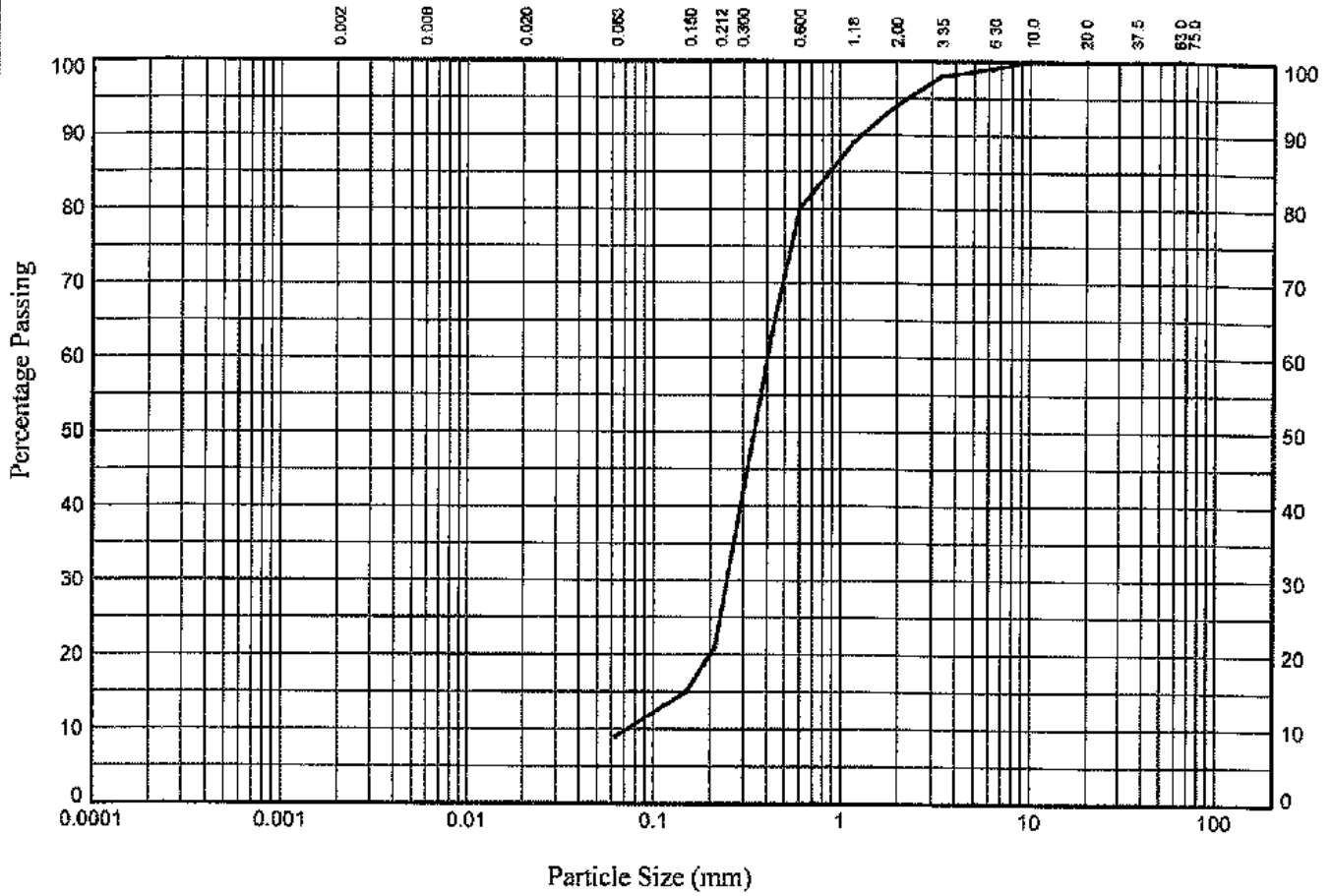
STRUCTURAL SOILS
 The Old School
 Stillhouse Lane
 Bedminster
 Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	29/01/09	[Redacted]	4/3/09
Contract		JOB NO	
Sizewell C Supplementary Investigation		722201	
AGS			

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH34** Sample Ref: **3** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	99
5.00	
3.35	98
2.00	94
1.18	89
0.600	80
0.425	63
0.300	
0.212	21
0.150	15
0.063	9

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	6
SAND	85
SILT/CLAY	9

Soil Description:
Brown gravelly silty/clayey SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

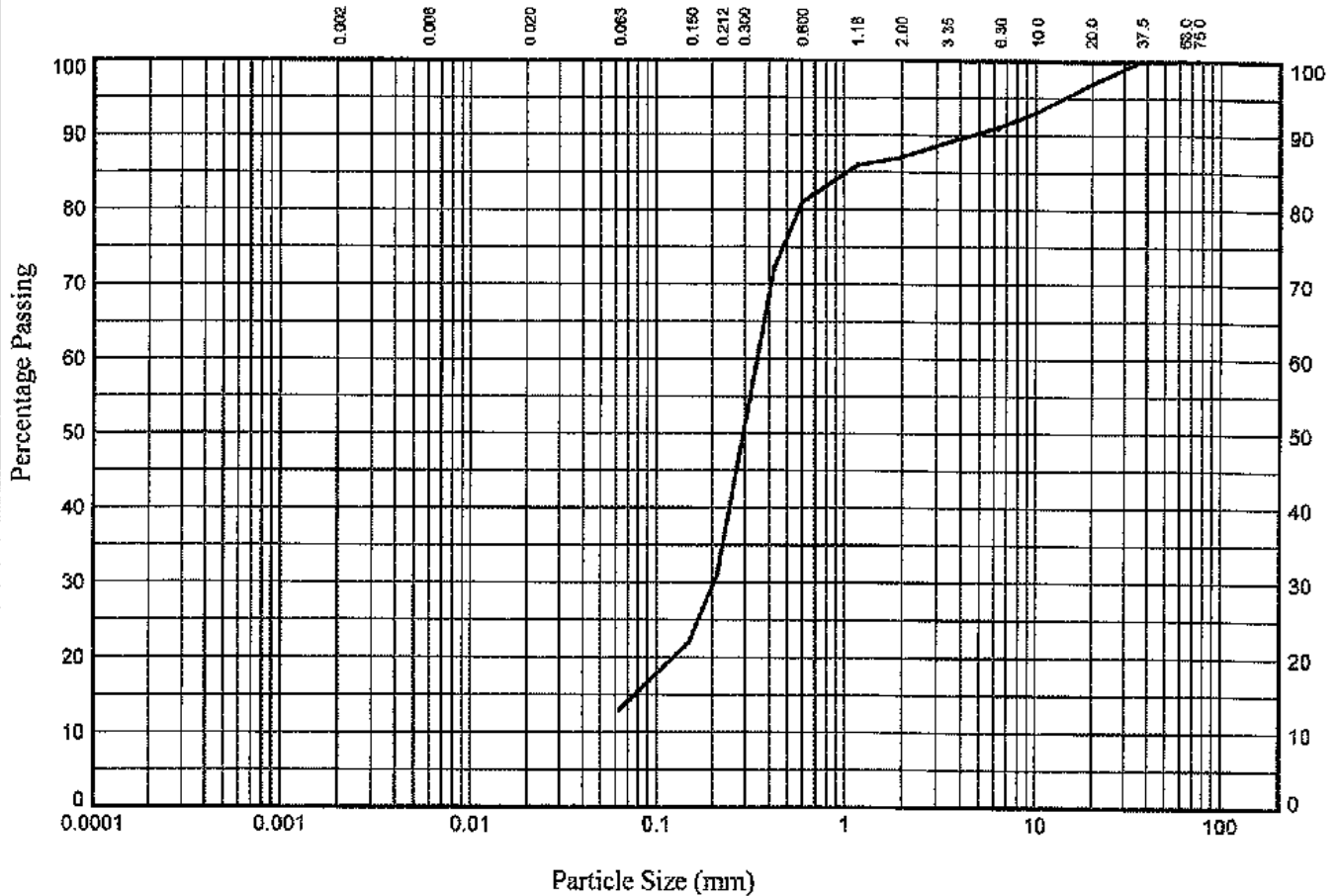
<p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Contract	Date	Checked By	Date
	Sizewell C Supplementary Investigation	29/01/09	[Redacted]	6/3/09
	Job No	722201		

STRUCTURAL_SOILS_GINT_LIBRARY_08-11-06.GLB.L - PBD1722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 29/01/09 - 12:50.

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH36** Sample Ref: **5** Sample Type: **B** Depth (m): **1.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	97
10.0	93
6.30	91
5.00	
3.35	89
2.00	87
1.18	86
0.600	81
0.425	72
0.300	
0.212	31
0.150	22
0.063	13

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	13
SAND	74
SILT/CLAY	13

Soil Description:
Brown mottled grey silty/clayey gravelly SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



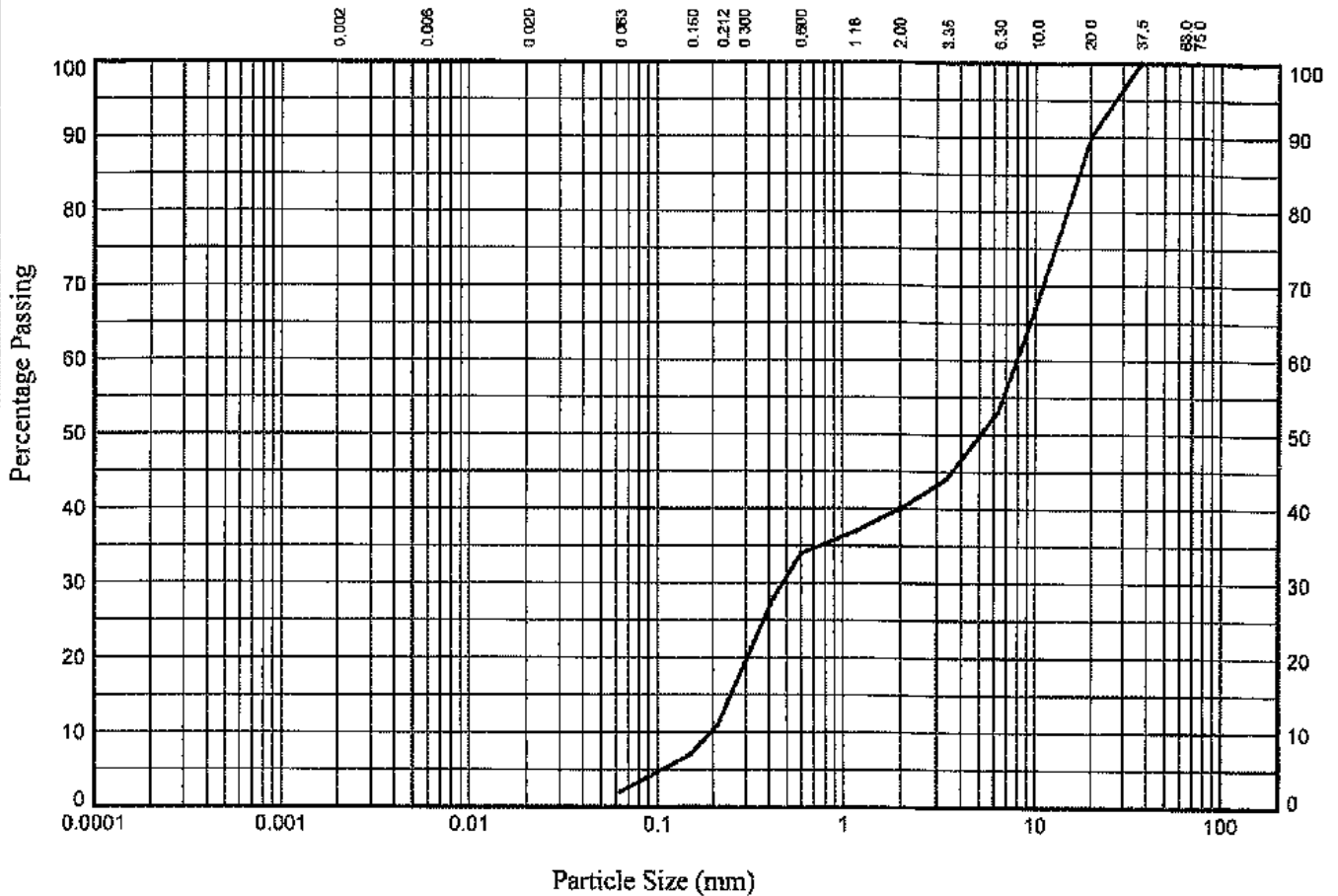
STRUCTURAL SOILS
 The Old School
 Stillhouse Lane
 Bedminster
 Bristol BS3 4EB

Compiled By	Date	Date
<div style="background-color: black; width: 100px; height: 20px;"></div>	29/01/09	6/2/09
Contract	Job No	
Sizewell C Supplementary Investigation	722201	

PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH37** Sample Ref: **5** Sample Type: **B** Depth (m): **1.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	90
10.0	67
6.30	53
5.00	
3.35	44
2.00	40
1.18	37
0.600	34
0.425	28
0.300	
0.212	11
0.150	7
0.063	2

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	60
SAND	38
SILT/CLAY	2

Soil Description:
Brown slightly silty very sandy GRAVEL

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

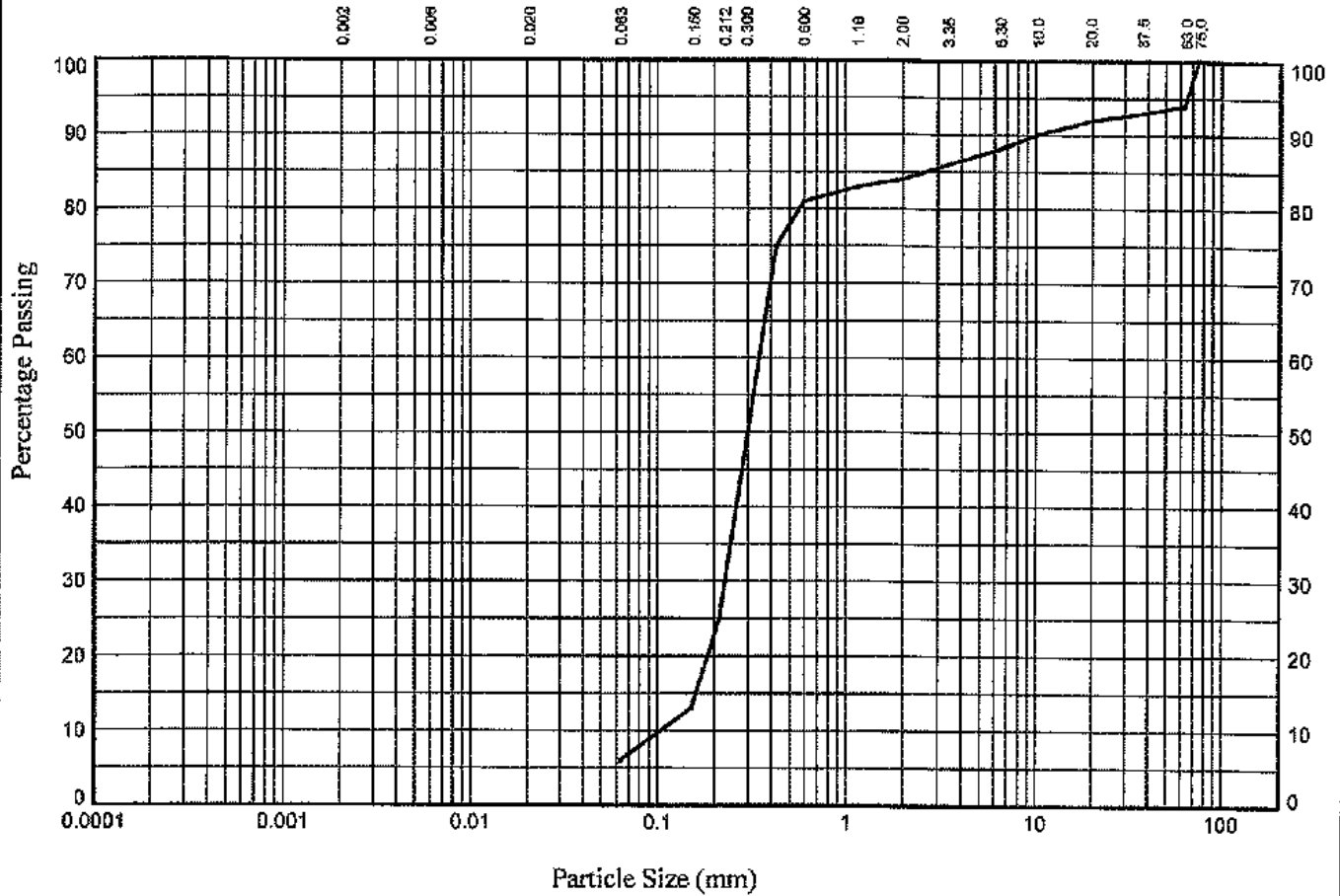
Compiled By [Redacted]	Date 29/01/09	Checked By [Redacted]	Date 4/3/09
Contract Sizewell C Supplementary Investigation		Job No 722201	



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH38** Sample Ref: **11** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	94
37.5	93
20.0	92
10.0	90
6.30	88
5.00	
3.35	86
2.00	84
1.18	83
0.600	81
0.425	75
0.300	
0.212	25
0.150	13
0.063	6

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
COBBLES	6
GRAVEL	10
SAND	78
SILT/CLAY	6

Soil Description:

Brown silty/clayey gravelly SAND with some cobbles

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

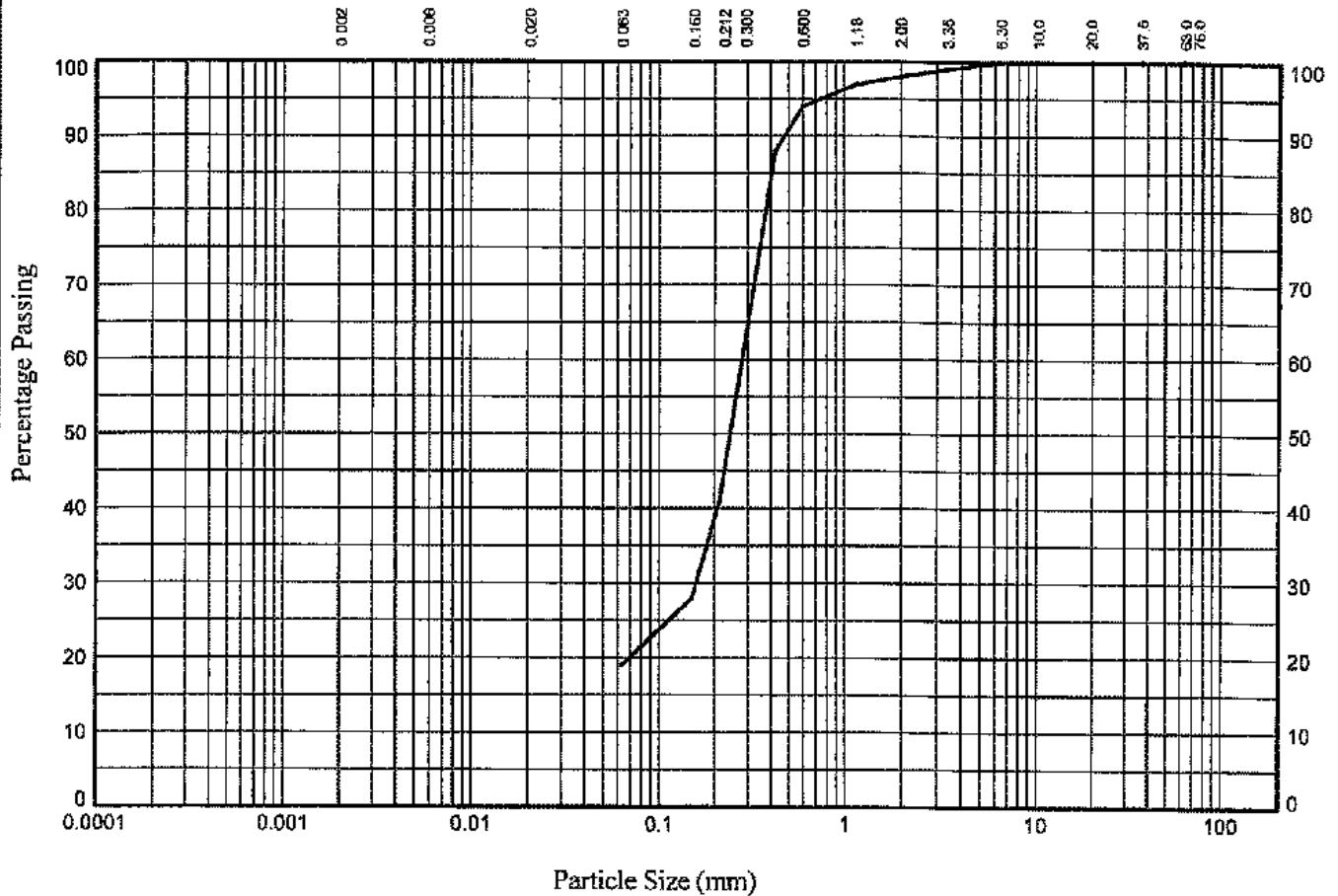
Compiled By	Date	Checked By	Date
[Redacted]	29/01/09	[Redacted]	6/3/09
Contract		Job No	
Sizewell C Supplementary Investigation		722201	



PARTICLE SIZE DISTRIBUTION TEST

In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH39** Sample Ref: **7** Sample Type: **B** Depth (m): **2.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	100
10.0	100
6.30	100
5.00	100
3.35	99
2.00	98
1.18	97
0.600	94
0.425	88
0.300	41
0.212	28
0.150	28
0.063	19

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	2
SAND	79
SILT/CLAY	19

Soil Description:
Orangish brown mottled greenish grey slightly gravelly silty/clayey SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
 The Old School
 Stillhouse Lane
 Bedminster
 Bristol BS3 4EB

Compiled By [Redacted]	Date 29/01/09	Checked By [Redacted]	Date 4/3/09
Contract Sizewell C Supplementary Investigation		Job No 722201	



STRUCTURAL_SOILS_GINT_LIBRARY_06-11-08_GLB.L - PSD | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 29/01/09 - 12:50.

PARTICLE SIZE DISTRIBUTION TEST

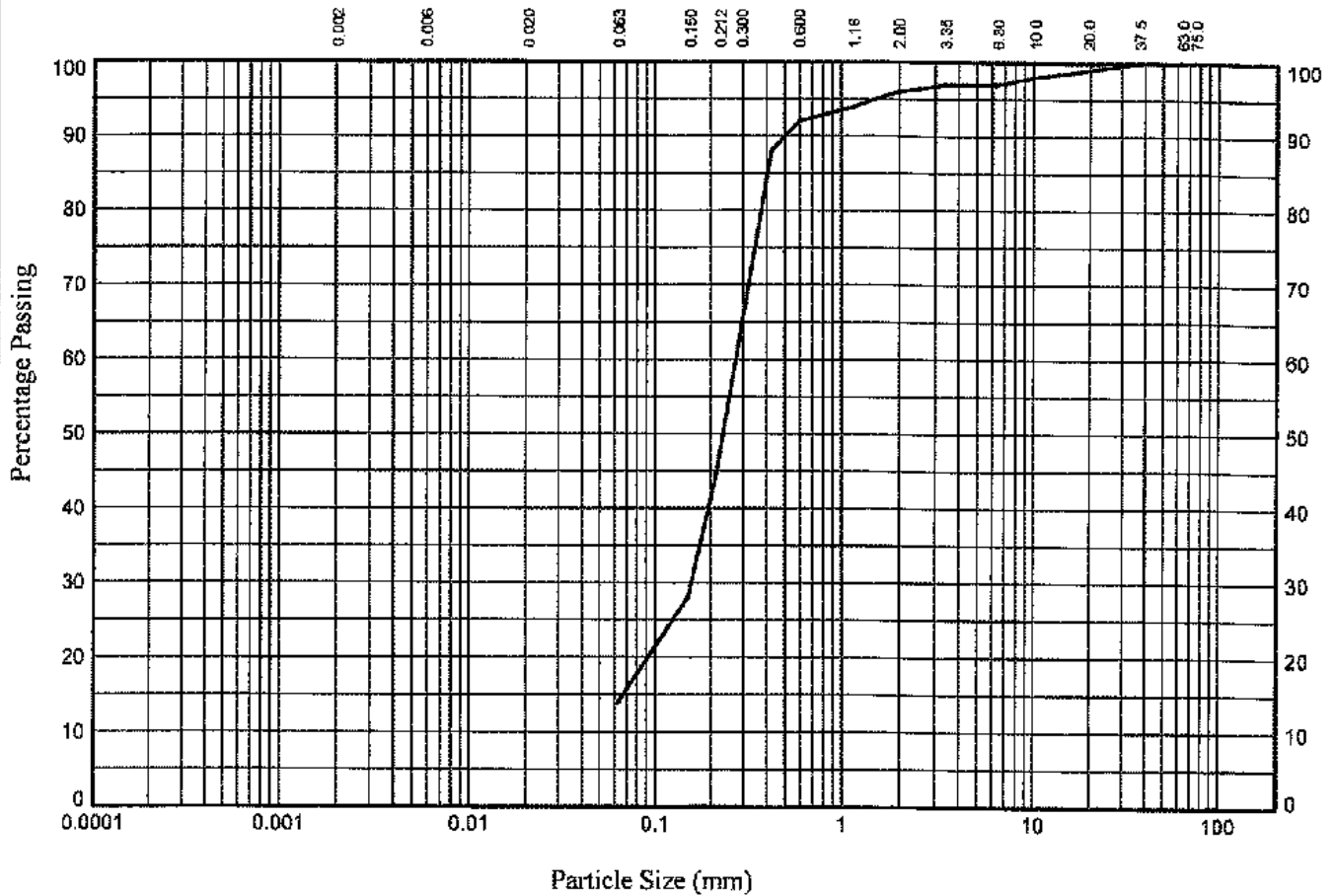
In accordance with clauses 9.2,9.5 of BS1377:Part 2:1990

Borehole : **BH40**

Sample Ref: **12**

Sample Type: **B**

Depth (m): **4.50**



CLAY	fine	medium	coarse	fine	medium	coarse	fine	medium	coarse	COBBLES
	SILT			SAND			GRAVEL			

BS Test Sieve (mm)	Percentage Passing
125.0	100
75.0	100
63.0	100
37.5	100
20.0	99
10.0	98
6.30	97
5.00	
3.35	97
2.00	96
1.18	94
0.600	92
0.425	88
0.300	
0.212	44
0.150	28
0.063	14

Particle Diameter	Percentage Passing

Soil Fraction	Sieve Percentage
GRAVEL	4
SAND	82
SILT/CLAY	14

Soil Description:

Orangish brown mottled brown slightly gravelly silty/clayey SAND

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

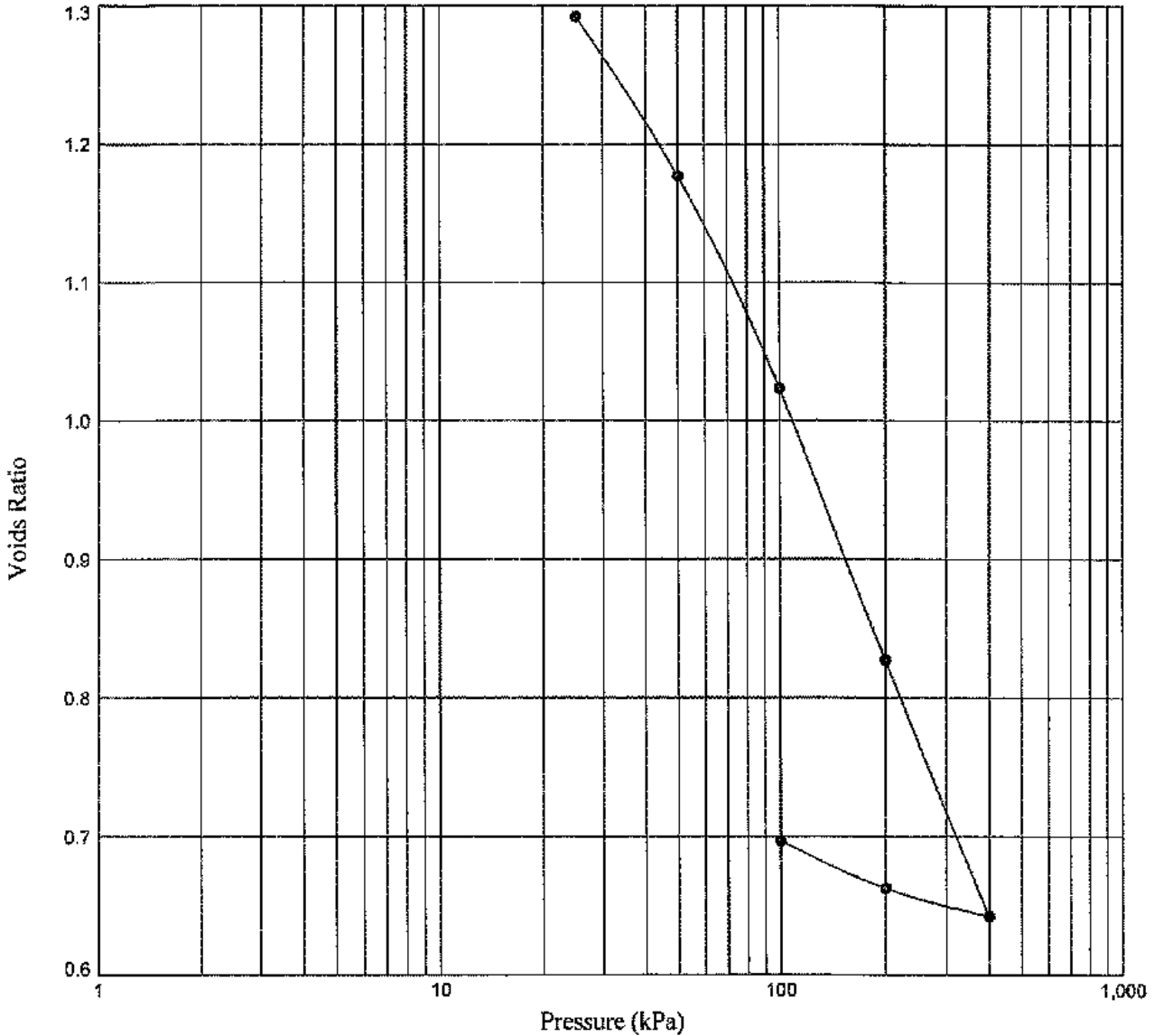
Compiled By	Date	Checked By	Date
[Redacted]	29/01/09	[Redacted]	6/3/09
Contract		Job No	
Sizewell C Supplementary Investigation		722201	



ONE DIMENSIONAL CONSOLIDATION TEST



In accordance with BS1377:Part 5:1990

Borehole : **BH7** Sample Ref: **14** Sample Type: **P** Depth (m): **4.80**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	: 84	Moisture Content (%)	: 48	Pressure Range (kPa)	Mv (m ² /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	: 1.50	Bulk Density (Mg/m ³)	: 1.74	0 - 25	2.7	0.74
Dry Density (Mg/m ³)	: 0.81	Dry Density (Mg/m ³)	: 1.18	25 - 50	2.0	0.46
Void Ratio	: 1.457	Void Ratio	: 0.6967	50 - 100	1.4	0.48
Specimen Details				100 - 200	0.97	0.32
Description		Height (mm)	: 19.42	200 - 400	0.51	0.32
Grey organic CLAY		Diameter (mm)	: 74.98	400 - 200	0.062	1.4
		Particle Density (Mg/m ³)	: 2.00	200 - 100	0.20	0.55
		Swelling Pressure (kPa)	: NA			

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

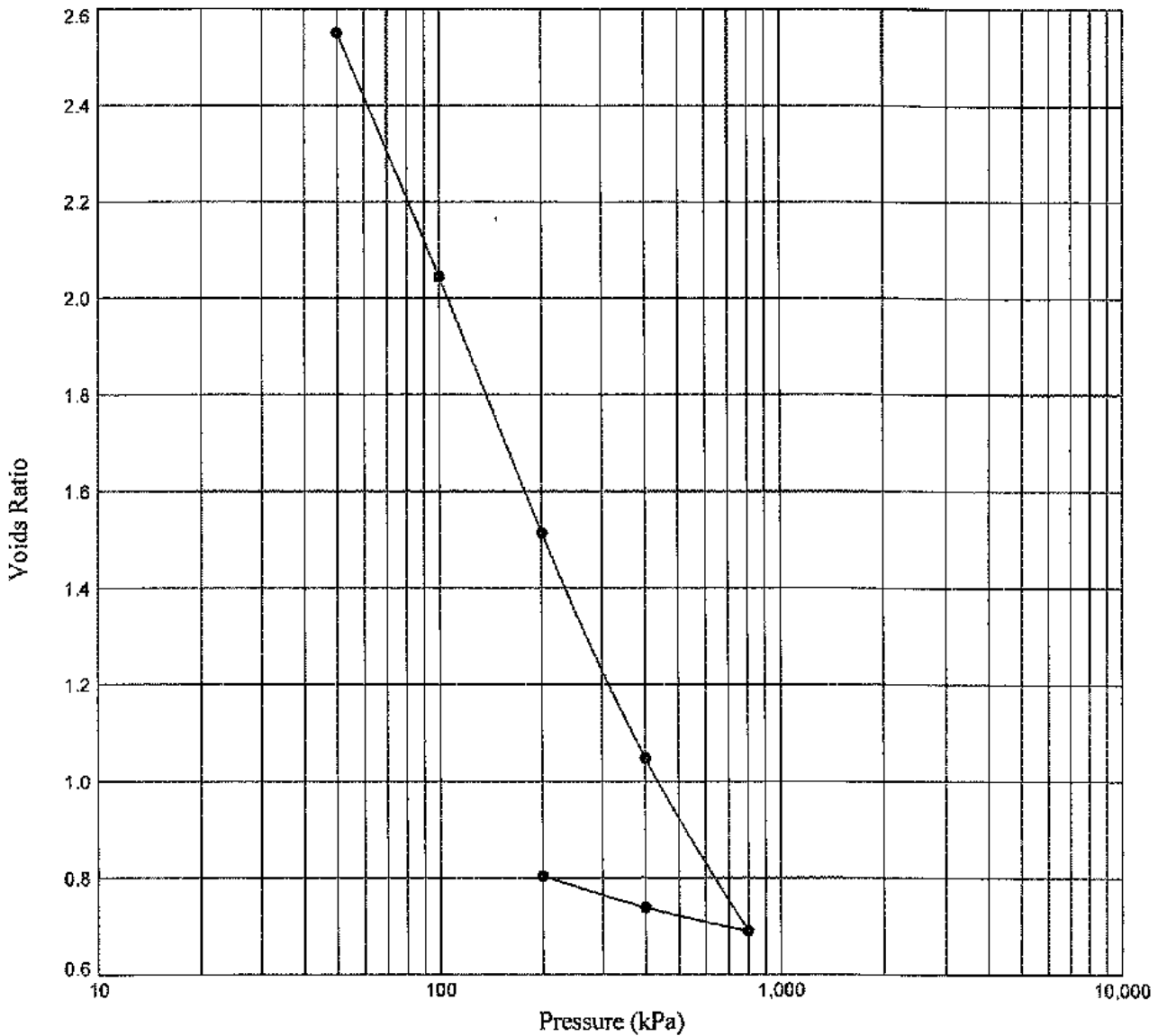
 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date
	[Redacted]	17/02/09	[Redacted]	17/02/09
	Contract		Job No	
<p>Sizewell C Supplementary Investigation</p>		722201		
				

STRUCTURAL_SOILS_GINT_LIBRARY_08-11-05_GLEB - 1-D CONSOL DATA LOGGED | 172201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION GPJ - v8_02 | 17/02/09 - 10:00

ONE DIMENSIONAL CONSOLIDATION TEST



In accordance with BS1377:Part 5:1990

Borehole : BH7 Sample Ref: 15 Sample Type: P Depth (m): 5.90



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	: 292	Moisture Content (%)	: 110	Pressure Range (kPa)	Mv (m ² /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	: 1.09	Bulk Density (Mg/m ³)	: 1.40	0 - 50	3.5	17
Dry Density (Mg/m ³)	: 0.28	Dry Density (Mg/m ³)	: 0.67	50 - 100	2.9	2.6
Void Ratio	: 3.299	Void Ratio	: 0.8042	100 - 200	1.7	0.86
Specimen Details				200 - 400	0.93	0.30
Description		Height (mm)	: 19.87	400 - 800	0.44	0.17
Dark brown fibrous PEAT		Diameter (mm)	: 76.07	800 - 400	0.072	0.55
		Particle Density (Mg/m ³)	: 1.20	400 - 200	0.19	0.27
		Swelling Pressure (kPa)	: NA			

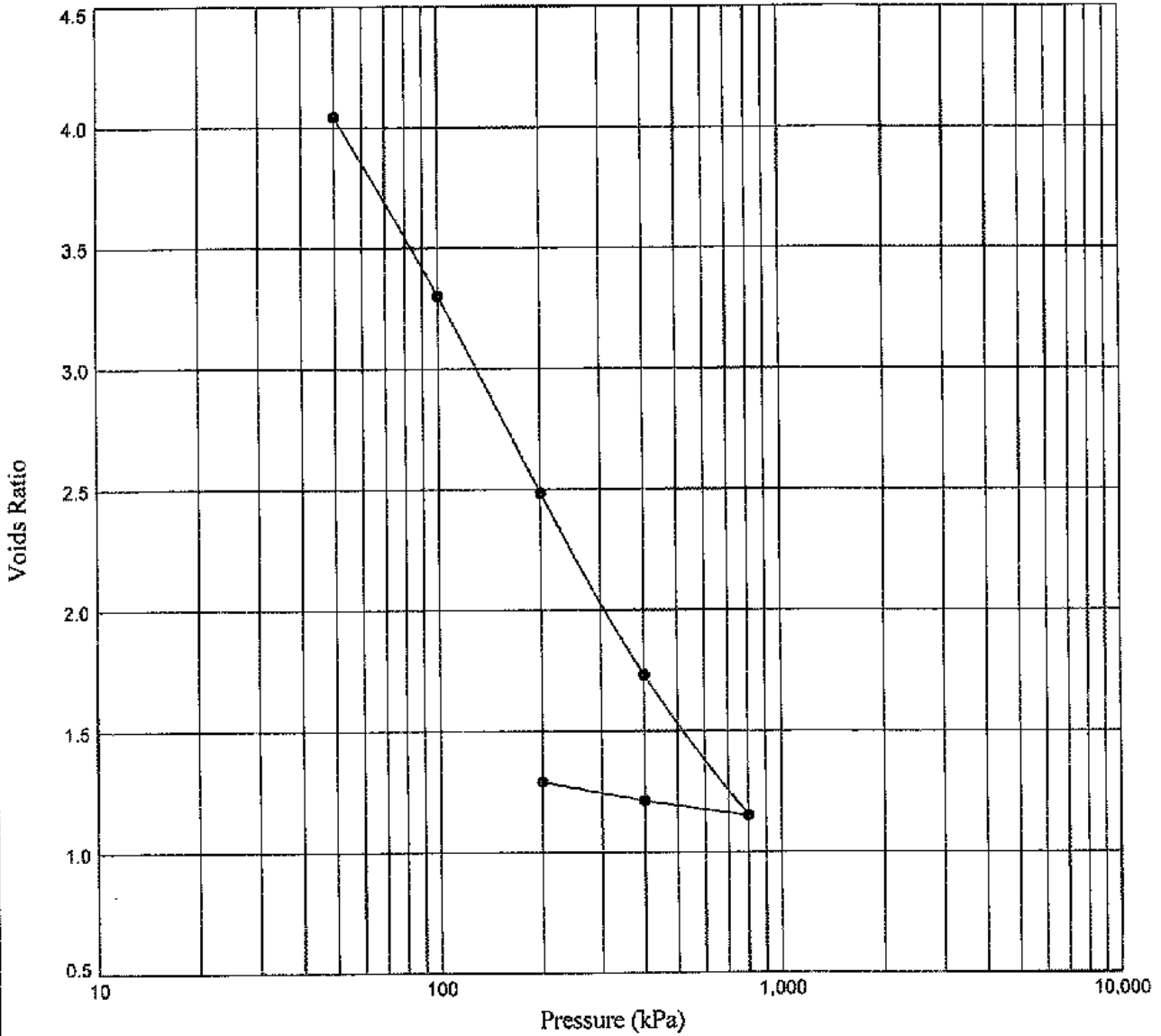
Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

	STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By [Redacted]	Date 17/02/09	Checked By [Redacted]	Date 6/3/09
		Contract Sizewell C Supplementary Investigation	Job No 722201		

ONE DIMENSIONAL CONSOLIDATION TEST

In accordance with BS1377:Part 5:1990

Borehole : **BH7** Sample Ref: **16** Sample Type: **P** Depth (m): **6.90**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	424	Moisture Content (%)	150	Pressure Range (kPa)	Mv (m ² /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	1.04	Bulk Density (Mg/m ³)	1.31	0 - 50	3.4	23
Dry Density (Mg/m ³)	0.20	Dry Density (Mg/m ³)	0.52	50 - 100	2.9	7.1
Void Ratio	5.070	Void Ratio	1.291	100 - 200	1.9	1.5
Specimen Details						
Description		Height (mm)	19.42	200 - 400	1.1	0.45
Dark brown fibrous PEAT		Diameter (mm)	75.16	400 - 800	0.53	0.14
		Particle Density (Mg/m ³)	1.20	800 - 400	0.072	0.69
		(assumed)		400 - 200	0.18	0.48
		Swelling Pressure (kPa)	NA			

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

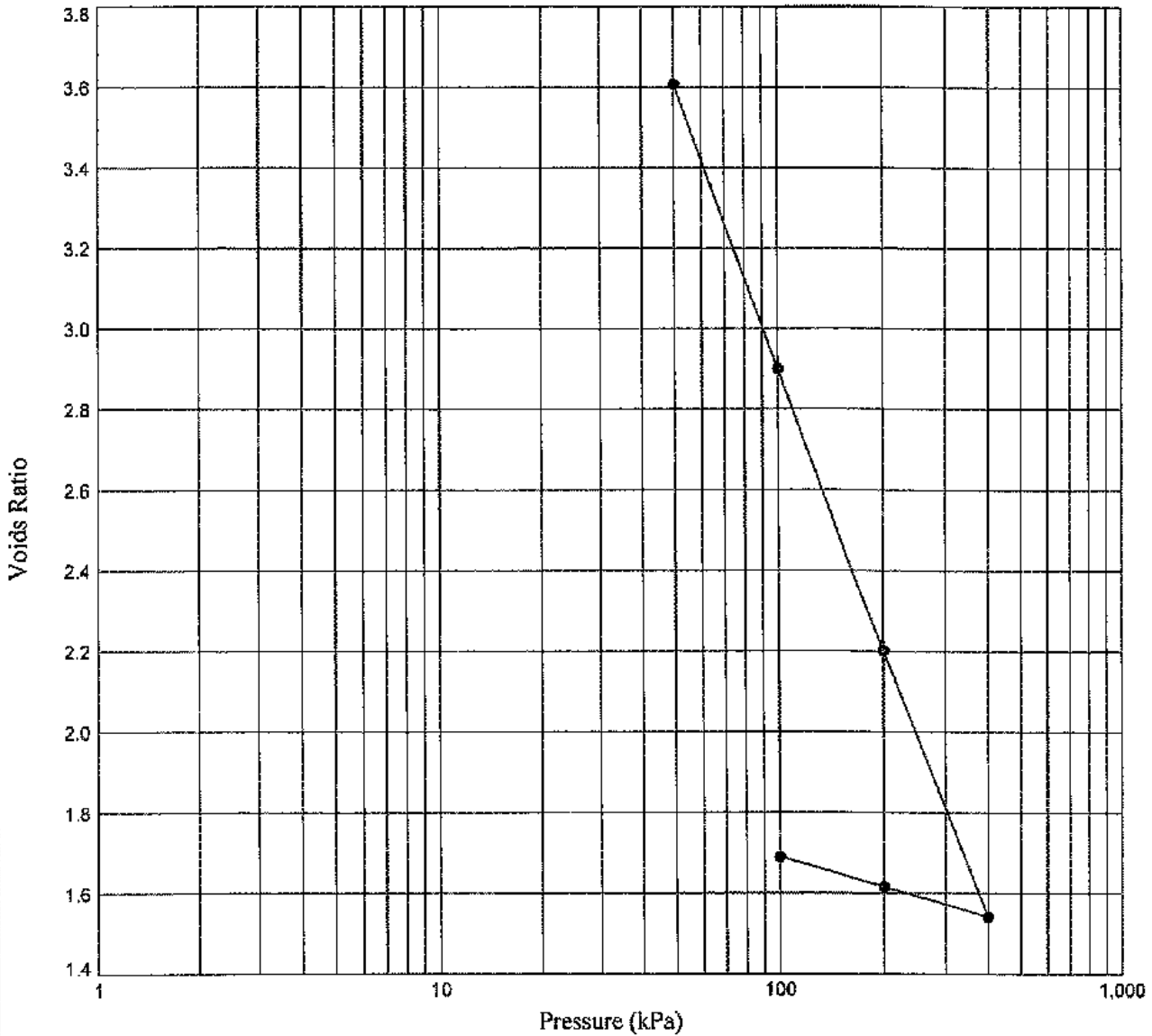
STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Contract	Compiled By [Redacted] Date 17/02/09	Job No	Checked By [Redacted] Date 6/3/09
	Sizewell C Supplementary Investigation	722201		

STRUCTURAL_SOILS_GINT_LIBRARY_06-11-06 GLEBL - 1-D CONSOL DATALOGGED | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION OPJ - v8_02 | 17/02/09 - 11:34

ONE DIMENSIONAL CONSOLIDATION TEST


In accordance with BS1377:Part 5:1990

Borehole : **BH7** Sample Ref: **16** Sample Type: **P** Depth (m): **7.60**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	: 413	Moisture Content (%)	: 173	Pressure Range (kPa)	Mv (m ² /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	: 1.06	Bulk Density (Mg/m ³)	: 1.22	0 - 50	4.2	7.8
Dry Density (Mg/m ³)	: 0.21	Dry Density (Mg/m ³)	: 0.45	50 - 100	3.1	0.95
Void Ratio	: 4.816	Void Ratio	: 1.690	100 - 200	1.8	0.41
Specimen Details				200 - 400	1.0	0.21
Description		Height (mm)	: 19.43	400 - 200	0.14	0.76
Dark brown fibrous PEAT		Diameter (mm)	: 75.03	200 - 100	0.28	0.84
		Particle Density (Mg/m ³)	: 1.20 (assumed)			
		Swelling Pressure (kPa)	: NA			

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

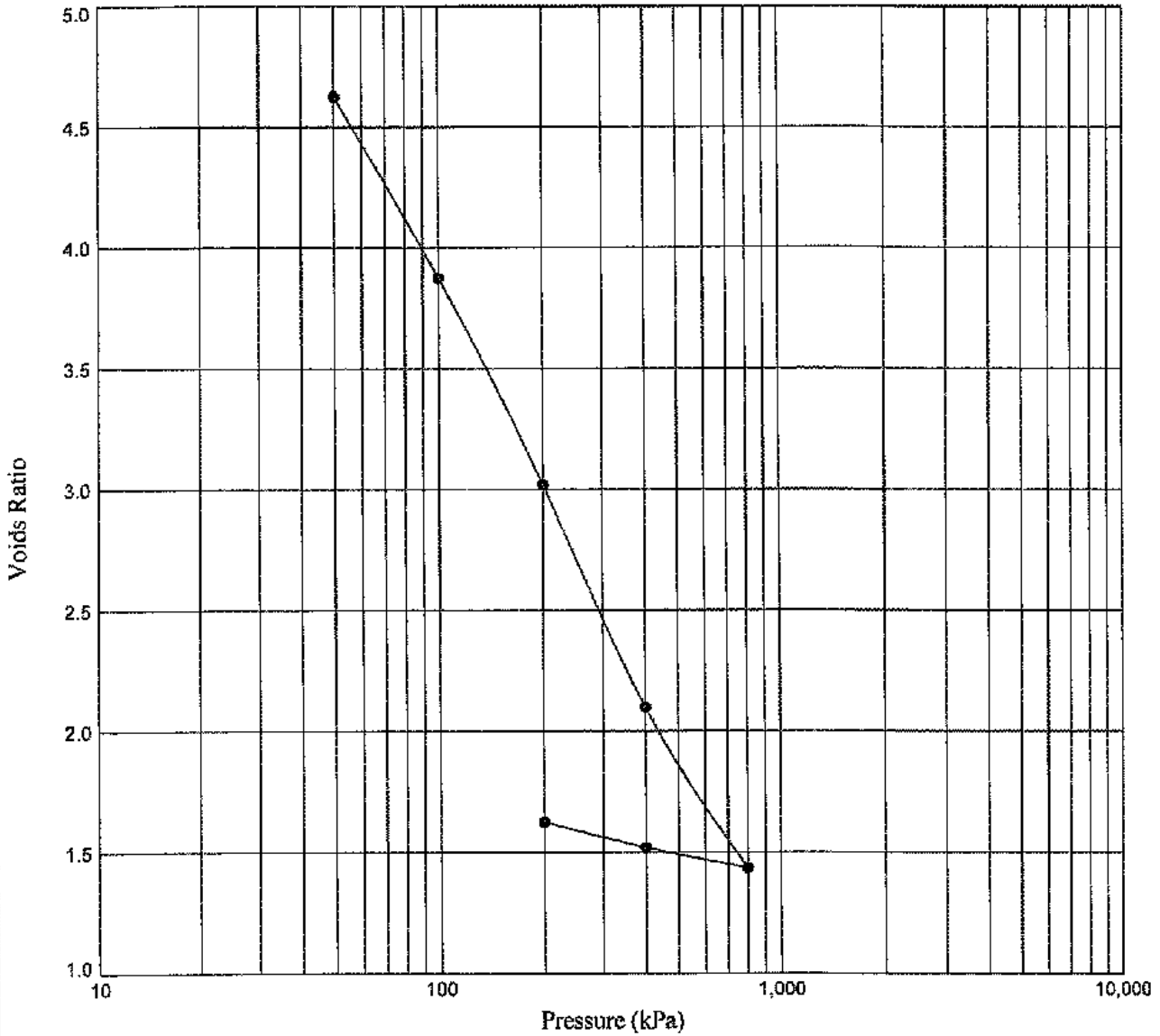
	STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Date	Checked By	Date
		17/02/09	[Redacted]	6/3/09
Contract Sizewell C Supplementary Investigation		Job No 722201		



ONE DIMENSIONAL CONSOLIDATION TEST

In accordance with BS1377:Part 5:1990

Borehole : **BH7** Sample Ref: **17** Sample Type: **P** Depth (m): **8.22**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	458	Moisture Content (%)	168	Pressure Range (kPa)	Mv (m ² /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	1.04	Bulk Density (Mg/m ³)	1.23	0 - 50	2.5	18
Dry Density (Mg/m ³)	0.19	Dry Density (Mg/m ³)	0.46	50 - 100	2.7	2.5
Void Ratio	5.411	Void Ratio	1.624	100 - 200	1.7	0.42
Specimen Details						
Description Dark brown fibrous PEAT		Height (mm)	19.34	200 - 400	1.1	0.14
		Diameter (mm)	75.00	400 - 800	0.54	0.046
		Particle Density (Mg/m ³) (assumed)	1.20	800 - 400	0.086	0.33
		Swelling Pressure (kPa)	NA	400 - 200	0.21	0.19

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

<p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date
	[REDACTED]	17/02/09	[REDACTED]	16/2/09
	Contract Sizewell C Supplementary Investigation		Test No 722201	

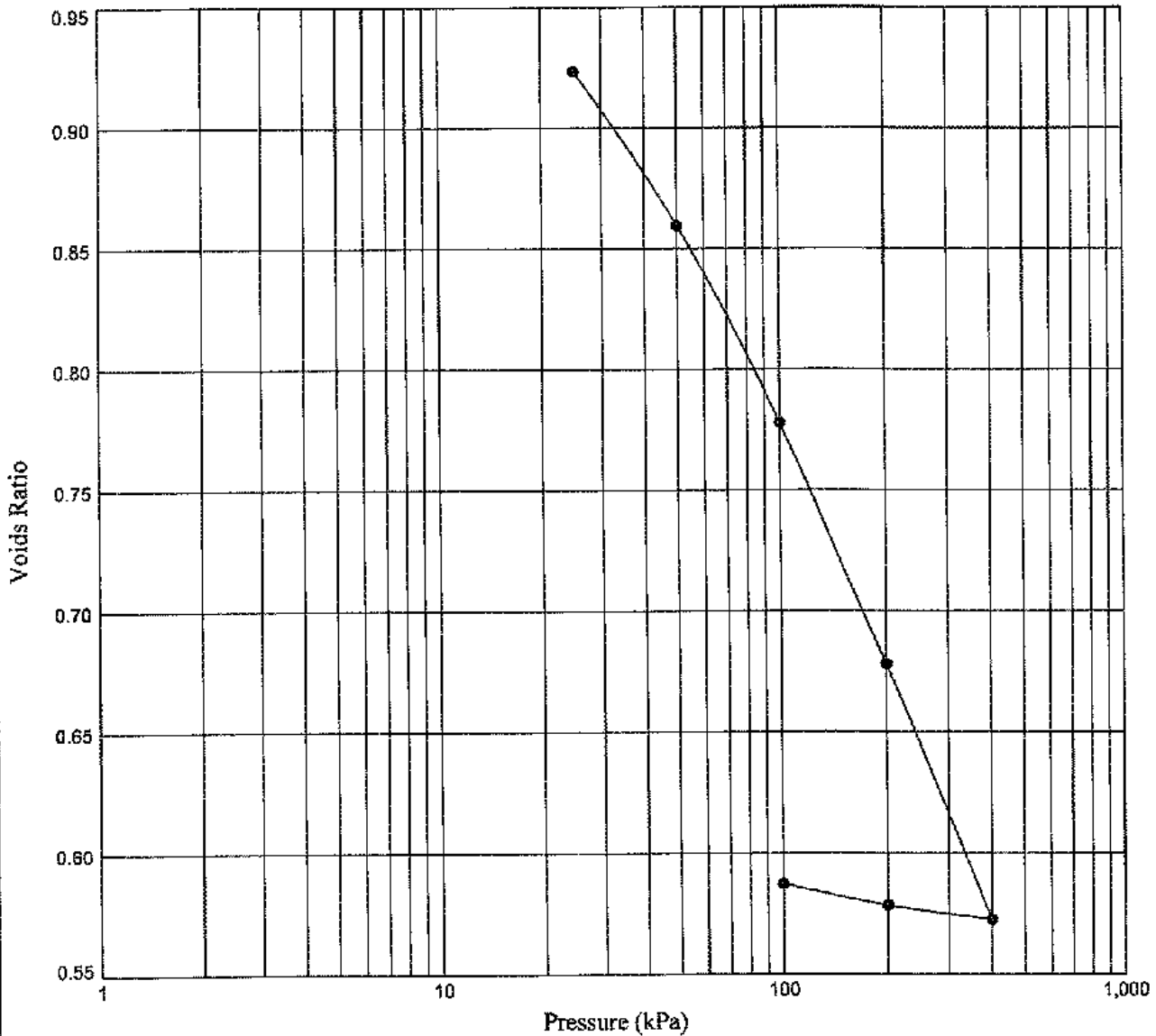
STRUCTURAL_SOILS_GINT_LIBRARY_08-11-06.GLBIL - 1-D CONSOL DATA LOGGED | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v6.02 | 17/02/09 - 11:58.



ONE DIMENSIONAL CONSOLIDATION TEST

In accordance with BS1377:Part 5:1990

Borehole : **BH36** Sample Ref: **7** Sample Type: **P** Depth (m): **2.00**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	52	Moisture Content (%)	33	Pressure Range (kPa)	Mv (m ² /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	1.66	Bulk Density (Mg/m ³)	1.88	0 - 25	2.5	2.5
Dry Density (Mg/m ³)	1.10	Dry Density (Mg/m ³)	1.41	25 - 50	1.3	2.2
Void Ratio	1.053	Void Ratio	0.5873	50 - 100	0.88	1.7
Specimen Details						
Description Grey CLAY with occasional fibrous organic matter		Height (mm)	19.60	100 - 200	0.56	1.4
		Diameter (mm)	75.93	200 - 400	0.31	1.8
		Particle Density (Mg/m ³) (assumed)	2.25	400 - 200	0.019	8.7
		Swelling Pressure (kPa)	NA	200 - 100	0.056	7.9

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date
	[REDACTED]	17/02/09	[REDACTED]	6/3/09
	Contract Sizewell C Supplementary Investigation		Job No 722201	

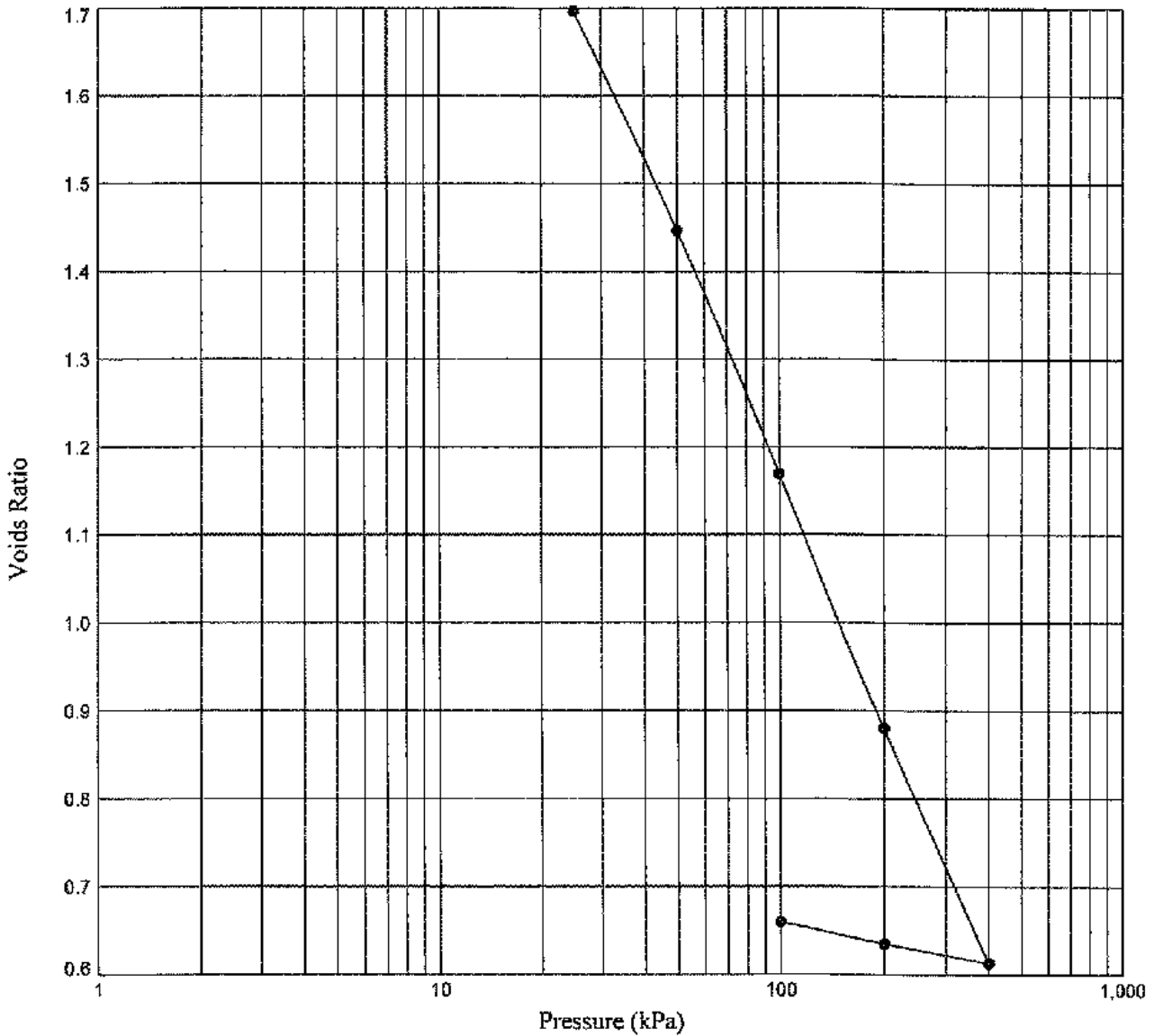


STRUCTURAL_SOILS_GINT_LIBRARY_08-11-08_GLBIL - 1-D CONSOL DATALOGGED | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v6_02 | 17/02/09 - 12:00

ONE DIMENSIONAL CONSOLIDATION TEST



In accordance with BS1377:Part 5:1990

Borehole : **BH36** Sample Ref: **8** Sample Type: **P** Depth (m): **3.00**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	: 146	Moisture Content (%)	: 69	Pressure Range (kPa)	Mv (m ³ /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	: 1.26	Bulk Density (Mg/m ³)	: 1.52	0 - 25	3.1	9.2
Dry Density (Mg/m ³)	: 0.51	Dry Density (Mg/m ³)	: 0.90	25 - 50	3.7	0.66
Void Ratio	: 1.922	Void Ratio	: 0.6598	50 - 100	2.3	1.5
Specimen Details				100 - 200	1.3	0.61
Description		Height (mm)	: 20.92	200 - 400	0.71	0.36
Dark brown fibrous PEAT with pockets of grey clay		Diameter (mm)	: 75.06	400 - 200	0.069	1.8
		Particle Density (Mg/m ³)	: 1.50	200 - 100	0.15	2.4
		Swelling Pressure (kPa)	: NA			

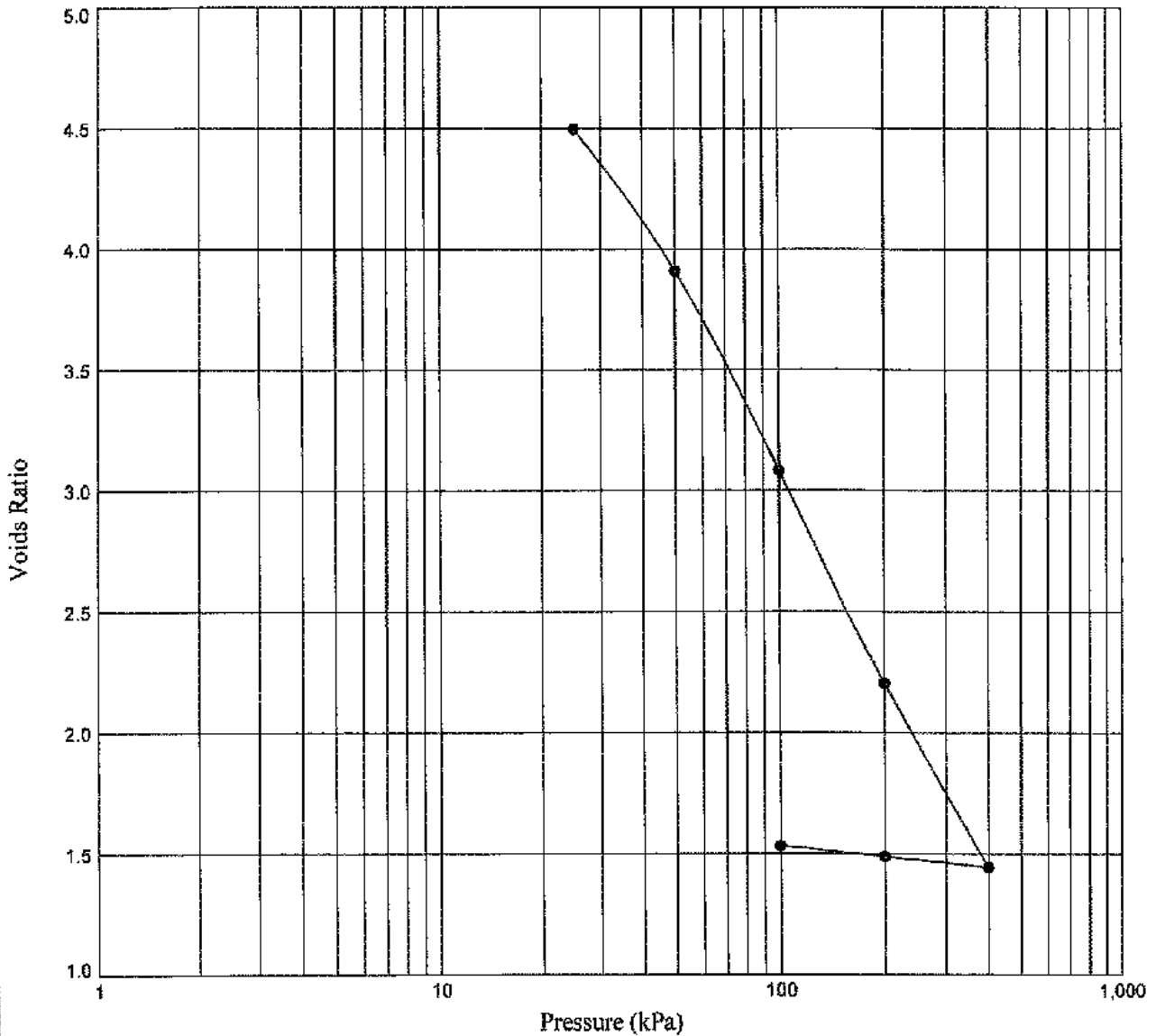
Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date
	[Redacted]	17/02/09	[Redacted]	6/3/09
	Contract		Job No	
<p align="center">Sizewell C Supplementary Investigation</p>		<p align="center">722201</p>		
				

ONE DIMENSIONAL CONSOLIDATION TEST

In accordance with BS1377:Part 5:1990

Borehole : **BH36** Sample Ref: **8** Sample Type: **P** Depth (m): **3.10**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	391	Moisture Content (%)	167	Pressure Range (kPa)	Mv (m ³ /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	1.01	Bulk Density (Mg/m ³)	1.27	0 - 25	2.3	56
Dry Density (Mg/m ³)	0.21	Dry Density (Mg/m ³)	0.47	25 - 50	4.3	27
Void Ratio	4.827	Void Ratio	1.532	50 - 100	3.4	8.9
Specimen Details				100 - 200	2.1	2.3
Description		Height (mm)	20.74	200 - 400	1.2	0.60
Dark brown fibrous PEAT		Diameter (mm)	75.15	400 - 200	0.090	1.6
		Particle Density (Mg/m ³)	1.20	200 - 100	0.17	3.2
		(assumed)				
		Swelling Pressure (kPa)	NA			

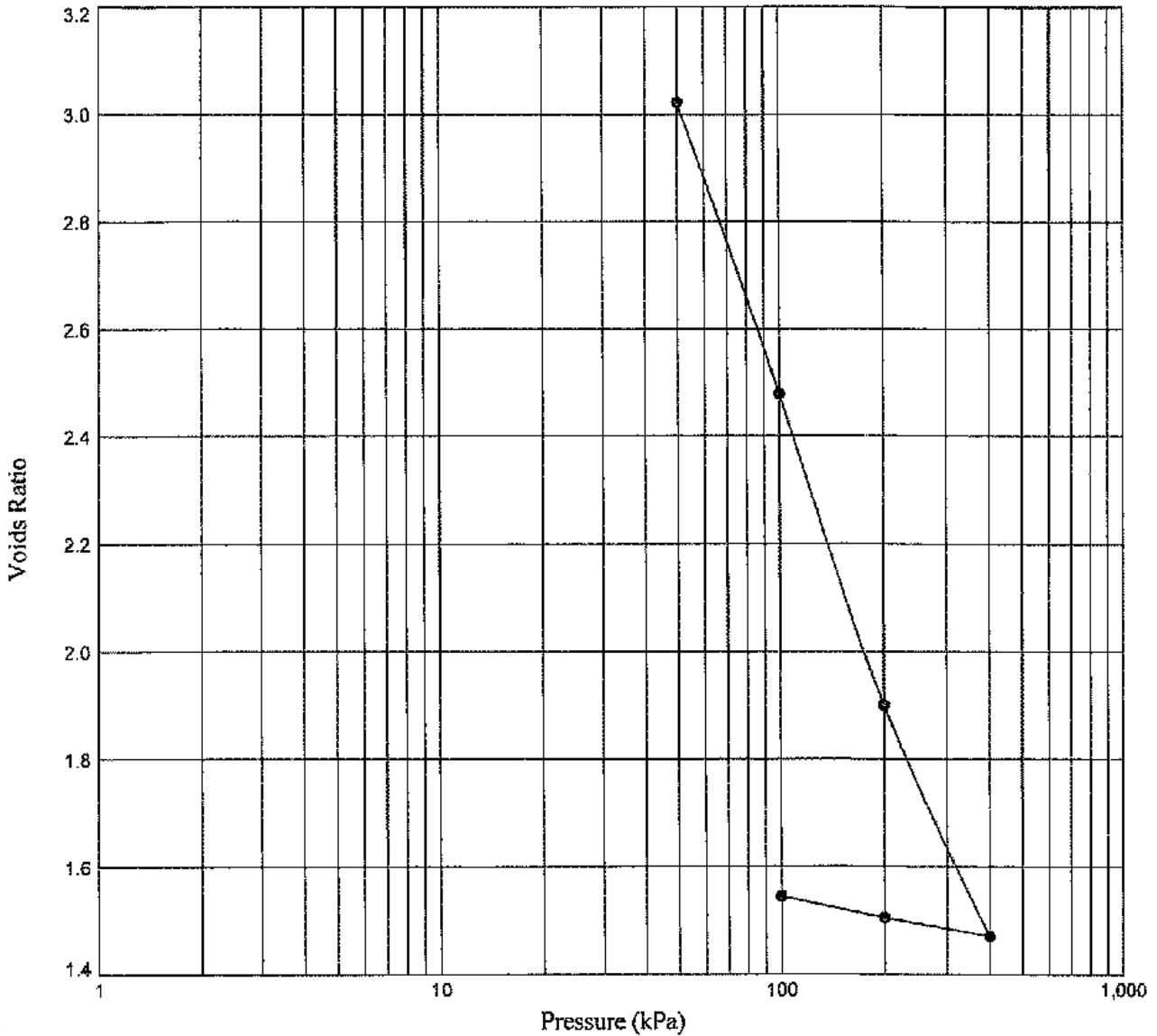
Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

	STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Contract Sizewell C Supplementary Investigation	Date 17/02/09	Checked By [Redacted]	Date 6/3/09
			Job No 722201		

ONE DIMENSIONAL CONSOLIDATION TEST



In accordance with BS1377:Part 5:1990

Borehole : **BH36** Sample Ref: **9** Sample Type: **P** Depth (m): **4.00**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	: 327	Moisture Content (%)	: 164	Pressure Range (kPa)	Mv (m ³ /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	: 1.07	Bulk Density (Mg/m ³)	: 1.24	0 - 50	3.2	47
Dry Density (Mg/m ³)	: 0.25	Dry Density (Mg/m ³)	: 0.47	50 - 100	2.7	8.9
Void Ratio	: 3.793	Void Ratio	: 1.545	100 - 200	1.7	4.5
Specimen Details				200 - 400	0.74	1.9
Description		Height (mm)	: 20.10	400 - 200	0.068	2.8
Dark brown fibrous PEAT		Diameter (mm)	: 75.00	200 - 100	0.16	10
		Particle Density (Mg/m ³)	: 1.20			
		(assumed)				
		Swelling Pressure (kPa)	: NA			

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

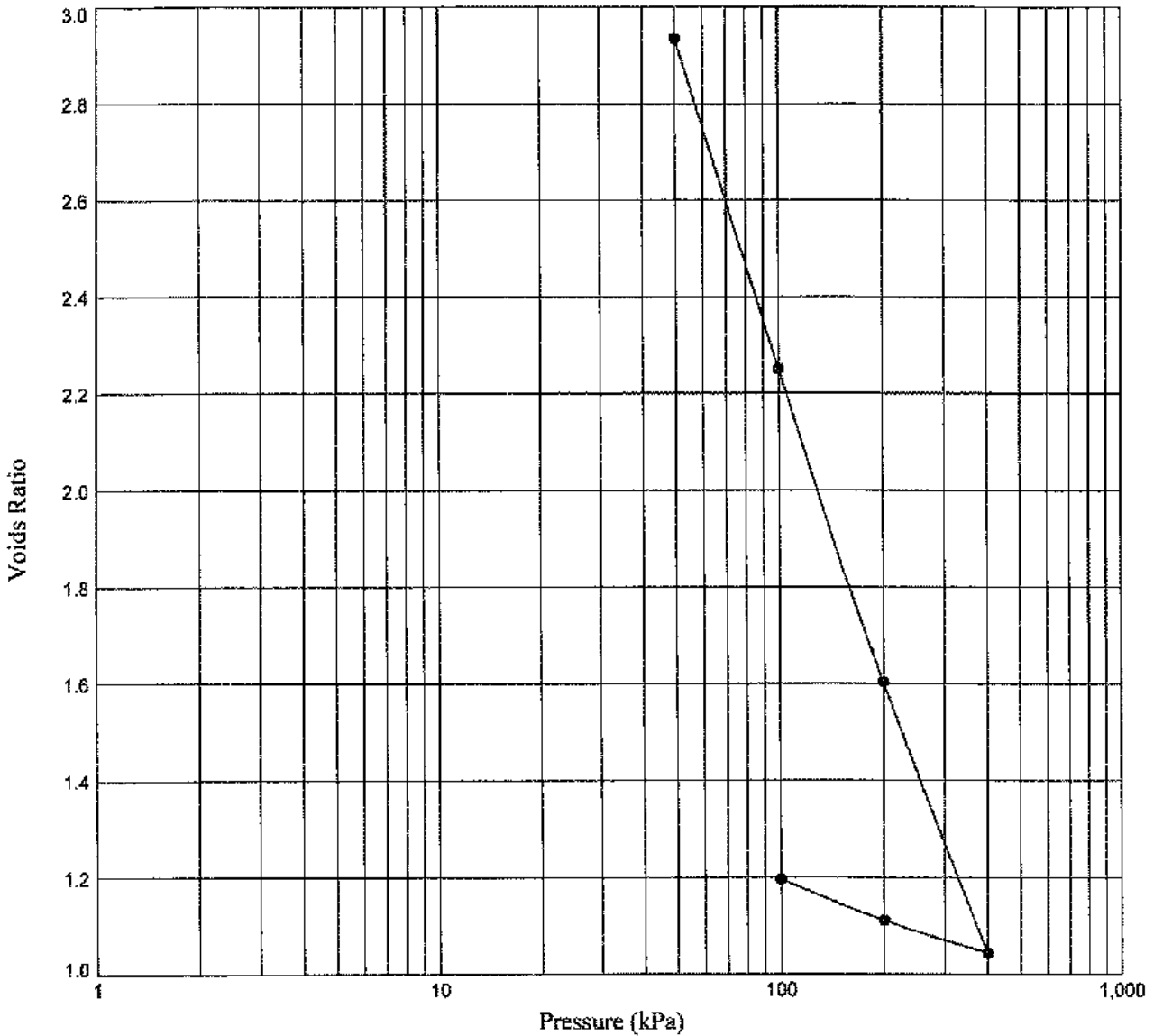
 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date
	[Redacted]	17/02/09	[Redacted]	6/3/09
Sizewell C Supplementary Investigation		722201		
				

STRUCTURAL_SOILS_GINT_LIBRARY_08-11-08_GLBK - 1-D CONSOL.DAT/LOGGED | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 17/02/09 - 12:04

ONE DIMENSIONAL CONSOLIDATION TEST



In accordance with BS1377:Part 5:1990

Borehole : **BH36** Sample Ref: **10** Sample Type: **P** Depth (m): **5.00**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	: 421	Moisture Content (%)	: 151	Pressure Range (kPa)	Mv (m ³ /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	: 1.12	Bulk Density (Mg/m ³)	: 1.37	0 - 50	5.9	7.3
Dry Density (Mg/m ³)	: 0.21	Dry Density (Mg/m ³)	: 0.55	50 - 100	3.5	0.66
Void Ratio	: 4.586	Void Ratio	: 1.196	100 - 200	2.0	0.28
Specimen Details				200 - 400	1.1	0.12
Description		Height (mm)	: 19.52	400 - 200	0.17	0.41
Dark brown fibrous PEAT		Diameter (mm)	: 75.16	200 - 100	0.40	0.46
		Particle Density (Mg/m ³)	: 1.20 (assumed)			
		Swelling Pressure (kPa)	: NA			

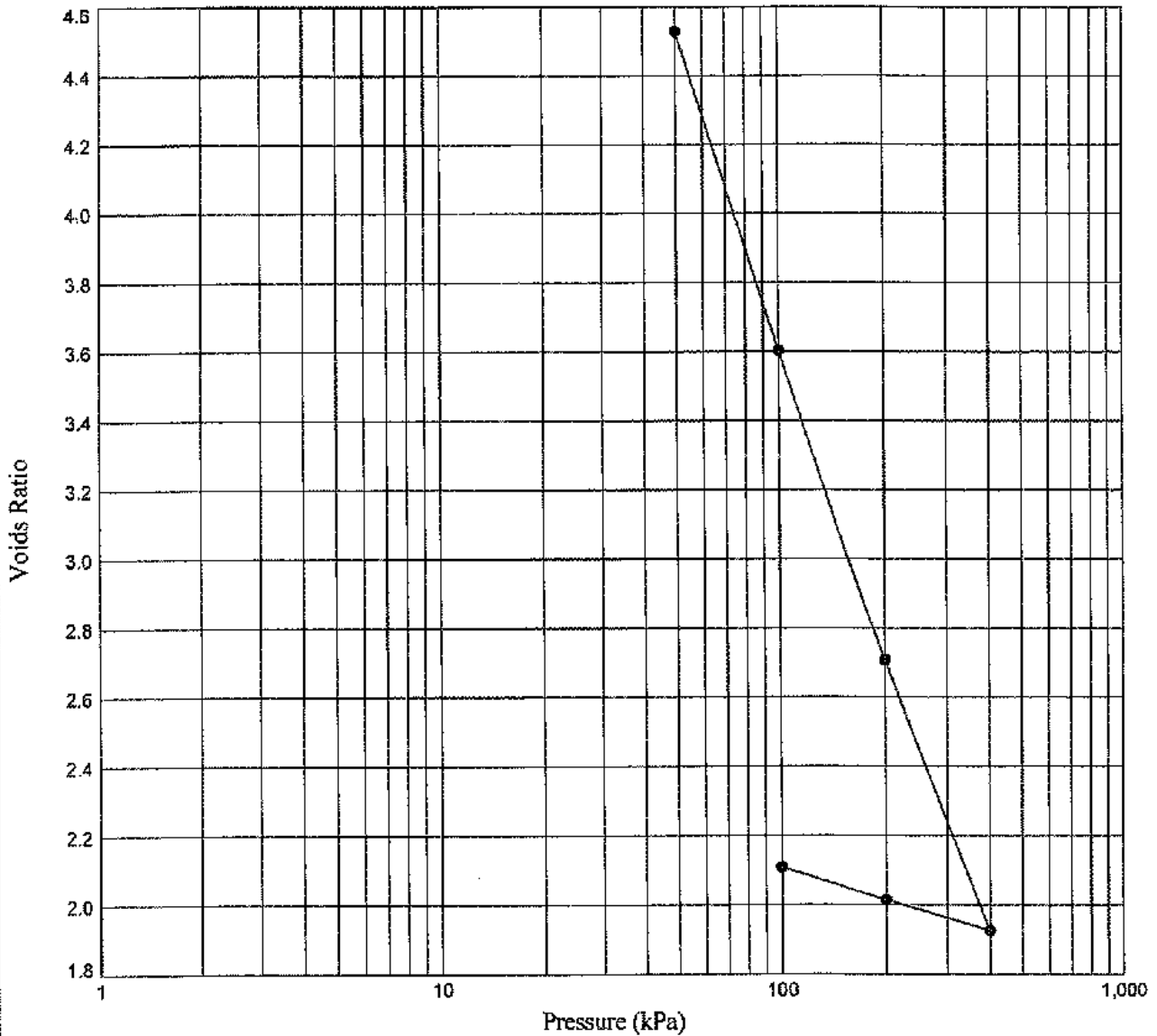
Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date
	[Redacted]	17/02/09	[Redacted]	6609
Contract		Job No		
Sizewell C Supplementary Investigation		722201		

ONE DIMENSIONAL CONSOLIDATION TEST



In accordance with BS1377:Part 5:1990

Borehole : **BH36** Sample Ref: **10** Sample Type: **P** Depth (m): **5.70**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	: 510	Moisture Content (%)	: 211	Pressure Range (kPa)	Mv (m ³ /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	: 1.03	Bulk Density (Mg/m ³)	: 1.20	0 - 50	4.5	18
Dry Density (Mg/m ³)	: 0.17	Dry Density (Mg/m ³)	: 0.39	50 - 100	3.3	2.1
Void Ratio	: 6.136	Void Ratio	: 2.109	100 - 200	1.9	0.62
Specimen Details				200 - 400	1.1	0.26
Description		Height (mm)	: 19.95	400 - 200	0.15	0.68
Dark brown fibrous PEAT		Diameter (mm)	: 76.07	200 - 100	0.31	0.98
		Particle Density (Mg/m ³)	: 1.20			
		(assumed)				
		Swelling Pressure (kPa)	: NA			

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

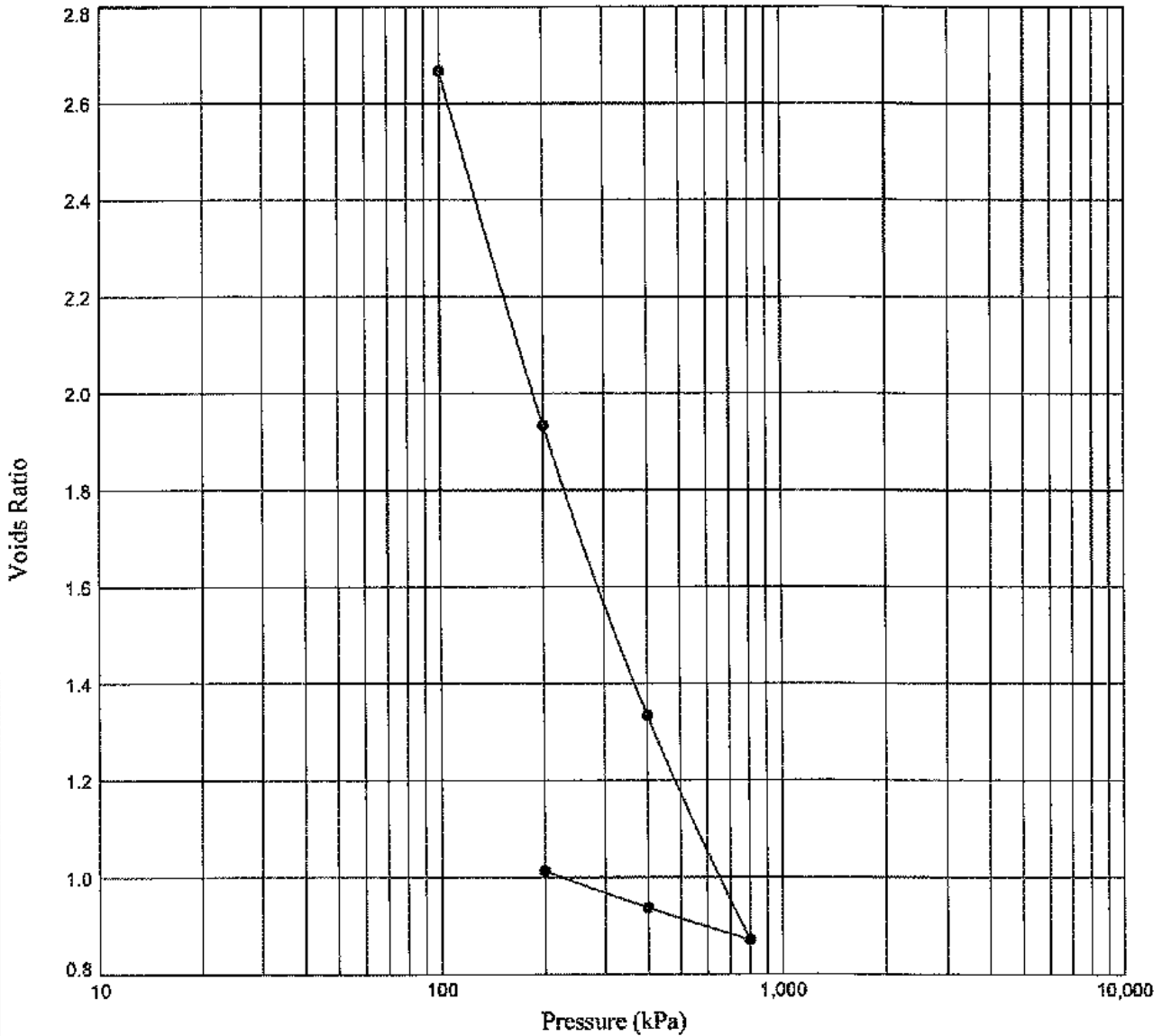
 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date
	[Redacted]	17/02/09	[Redacted]	6/3/09
	Contract		Job No	
Sizewell C Supplementary Investigation		722201		

STRUCTURAL_SOILS_GINT_LIBRARY_08-11-08_GLB.L - 1-D CONSOLIDATION TEST LOGGED | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - WB_D2 | 17/02/09 - 12:08

ONE DIMENSIONAL CONSOLIDATION TEST


In accordance with BS1377:Part 5:1990

Borehole : **BH36** Sample Ref: **21** Sample Type: **P** Depth (m): **7.73**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	: 375	Moisture Content (%)	: 130	Pressure Range (kPa)	Mv (m ² /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	: 1.08	Bulk Density (Mg/m ³)	: 1.37	0 - 100	3.1	32
Dry Density (Mg/m ³)	: 0.23	Dry Density (Mg/m ³)	: 0.60	100 - 200	2.0	2.2
Void Ratio	: 4.290	Void Ratio	: 1.013	200 - 400	1.0	0.96
Specimen Details				400 - 800	0.50	0.45
Description		Height (mm)	: 20.12	800 - 400	0.089	1.1
Dark brown fibrous PEAT		Diameter (mm)	: 75.06	400 - 200	0.19	2.2
		Particle Density (Mg/m ³)	: 1.20 (assumed)			
		Swelling Pressure (kPa)	: NA			

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date
	[Redacted]	17/02/09	[Redacted]	6/3/09
	Contract Sizewell C Supplementary Investigation		Job No 722201	

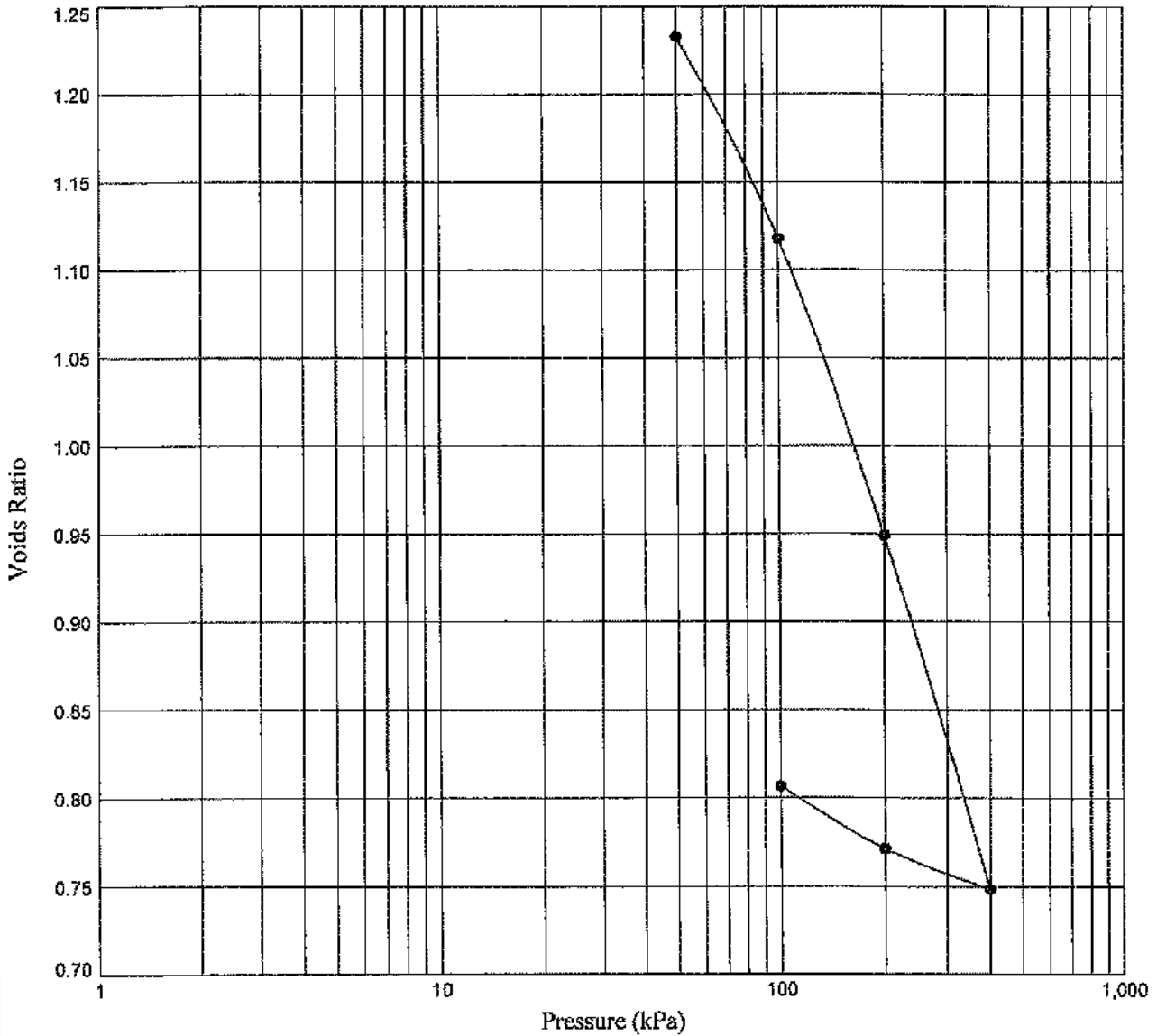
STRUCTURAL_SOILS_GINT_LIBRARY_08-11-08.GLBIL - 1-D CONSOL DATA LOGGED | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 17/02/09 - 12:07



ONE DIMENSIONAL CONSOLIDATION TEST




In accordance with BS1377:Part 5:1990

Borehole : **BH39** Sample Ref: **16** Sample Type: **P** Depth (m): **6.00**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	: 78	Moisture Content (%)	: 54	Pressure Range (kPa)	Mv (m³/MN)	Cv (m²/yr)
Bulk Density (Mg/m³)	: 1.50	Bulk Density (Mg/m³)	: 1.70	0 - 50	1.2	0.66
Dry Density (Mg/m³)	: 0.84	Dry Density (Mg/m³)	: 1.10	50 - 100	1.0	0.72
Void Ratio	: 1.377	Void Ratio	: 0.8067	100 - 200	0.80	0.45
Specimen Details				200 - 400	0.52	0.34
Description		Height (mm)	: 19.41	400 - 200	0.066	1.6
Grey CLAY with some fibrous organic matter		Diameter (mm)	: 75.01	200 - 100	0.20	0.65
		Particle Density (Mg/m³)	: 2.00 (assumed)			
		Swelling Pressure (kPa)	: NA			

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date
	 Contract Sizewell C Supplementary Investigation		17/02/09	 Job No 722201

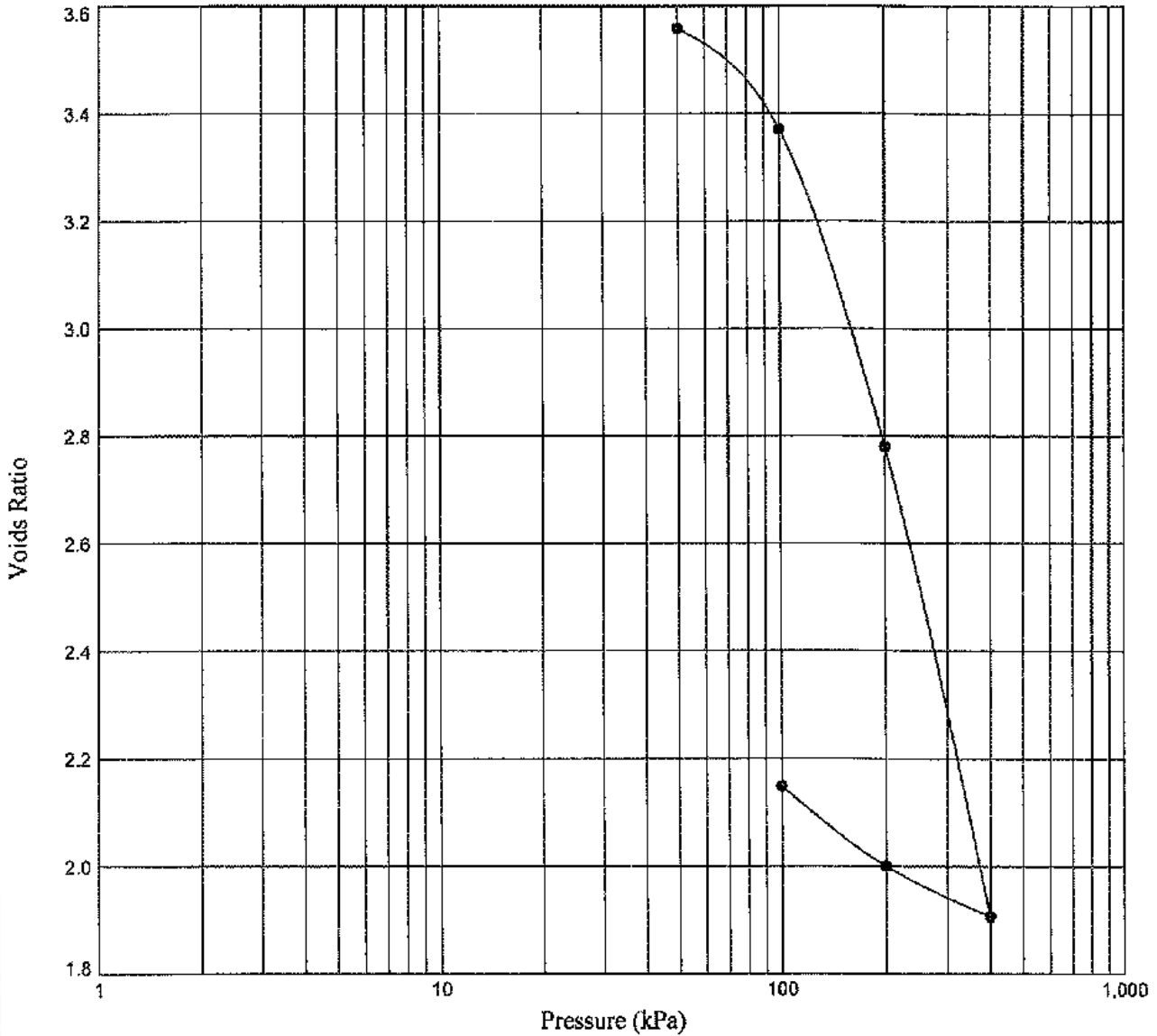
STRUCTURAL_SOILS_GINT_LIBRARY_08-11-08.GLBIL - 1-D CONSOL DATA LOGGED | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v6.02 | 17/02/09 - 12:09



ONE DIMENSIONAL CONSOLIDATION TEST

In accordance with BS1377:Part 5:1990

Borehole : **BH39** Sample Ref: **16** Sample Type: **P** Depth (m): **6.55**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	304	Moisture Content (%)	208	Pressure Range (kPa)	Mv (m ³ /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	1.02	Bulk Density (Mg/m ³)	1.17	0 - 50	0.88	34
Dry Density (Mg/m ³)	0.25	Dry Density (Mg/m ³)	0.38	50 - 100	0.82	13
Void Ratio	3.769	Void Ratio	2.149	100 - 200	1.4	2.3
Specimen Details						
Description		Height (mm)	21.14	200 - 400	1.2	0.37
Dark brown fibrous PEAT		Diameter (mm)	75.10	400 - 200	0.16	5.1
		Particle Density (Mg/m ³)	1.20	200 - 100	0.49	0.18
		Swelling Pressure (kPa)	NA			

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

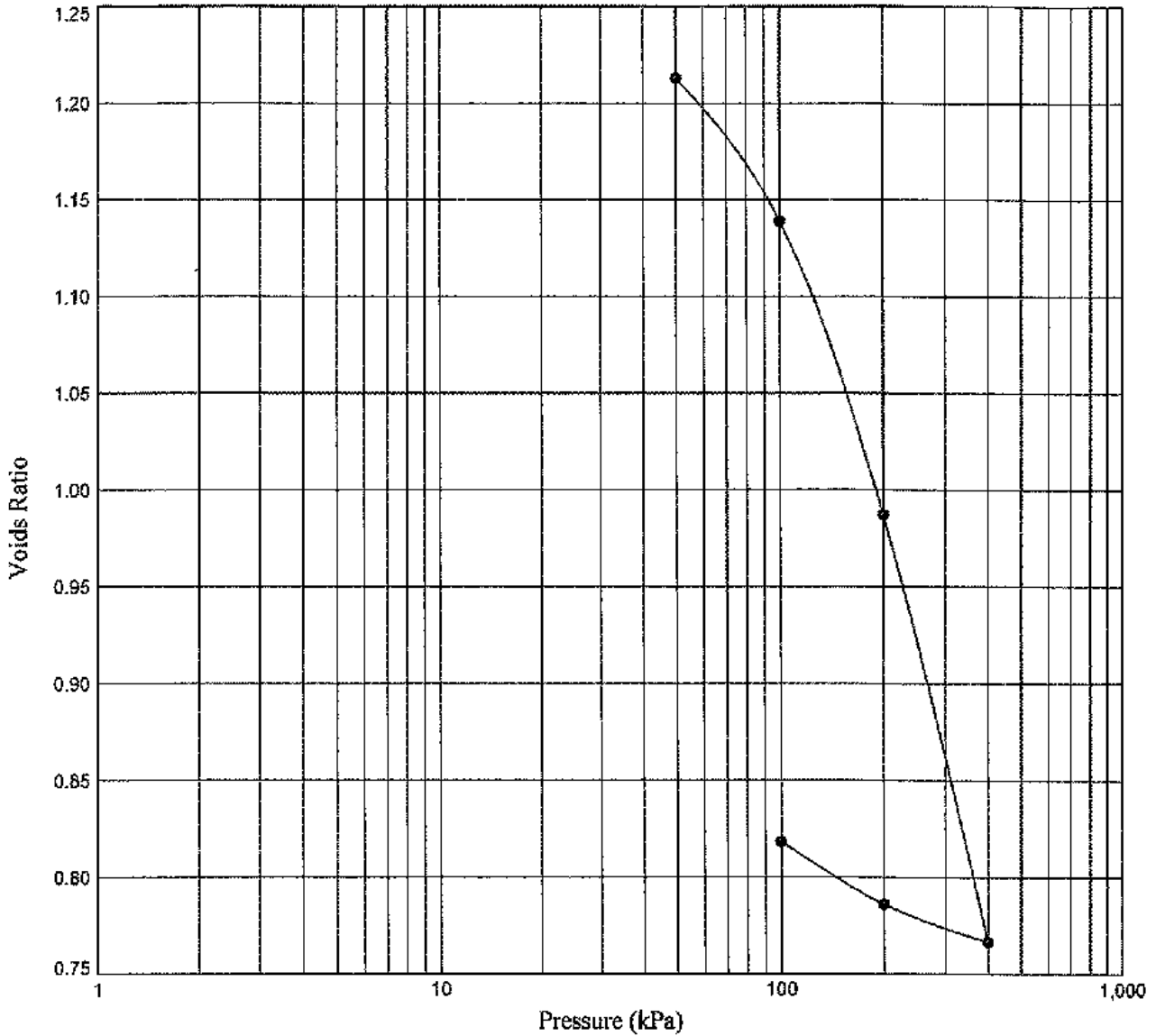
STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date
	[REDACTED]	17/02/09	[REDACTED]	17/02/09
	Contract Sizewell C Supplementary Investigation		Job No 722201	

STRUCTURAL_SOILS_GINT_LIBRARY_08-11-06_GLBIL - 1-D CONSOL DATA LOGGED | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION GPJ - v8_02 | 17/02/09 - 12.10.

ONE DIMENSIONAL CONSOLIDATION TEST


In accordance with BS1377:Part 5:1990

Borehole : **BH39** Sample Ref: **16** Sample Type: **P** Depth (m): **6.96**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	: 75	Moisture Content (%)	: 56	Pressure Range (kPa)	Mv (m ² /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	: 1.51	Bulk Density (Mg/m ³)	: 1.71	0 - 50	0.82	8.8
Dry Density (Mg/m ³)	: 0.87	Dry Density (Mg/m ³)	: 1.10	50 - 100	0.66	1.3
Void Ratio	: 1.307	Void Ratio	: 0.8183	100 - 200	0.71	0.69
Specimen Details				200 - 400	0.56	0.33
Description Grey CLAY with occasional fibrous organic matter		Height (mm)	: 19.74	400 - 200	0.055	2.9
		Diameter (mm)	: 75.15	200 - 100	0.18	1.4
		Particle Density (Mg/m ³)	: 2.00 (assumed)			
		Swelling Pressure (kPa)	: NA			

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

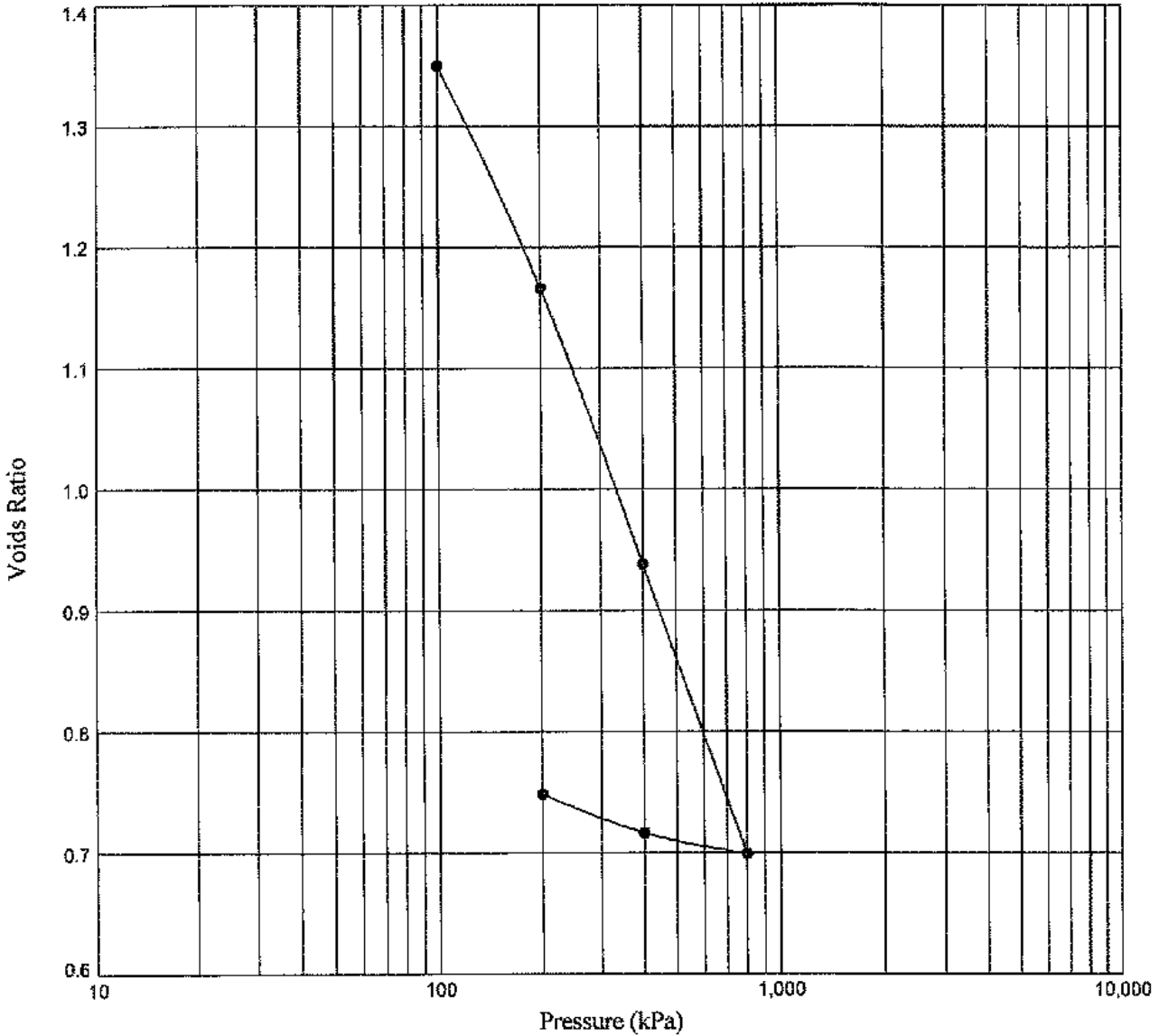
 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date
	[Redacted]	17/02/09	[Redacted]	13/09
	Contract Sizewell C Supplementary Investigation		Job No 722201	



ONE DIMENSIONAL CONSOLIDATION TEST

In accordance with BS1377:Part 5:1990

Borehole : **BH39** Sample Ref: **17** Sample Type: **P** Depth (m): **7.10**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	: 102	Moisture Content (%)	: 59	Pressure Range (kPa)	Mv (m ³ /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	: 1.32	Bulk Density (Mg/m ³)	: 1.60	0 - 100	1.2	11
Dry Density (Mg/m ³)	: 0.66	Dry Density (Mg/m ³)	: 1.00	100 - 200	0.78	1.0
Void Ratio	: 1.669	Void Ratio	: 0.7482	200 - 400	0.53	0.69
Specimen Details						
Description		Height (mm)	: 19.82	400 - 800	0.31	0.37
Dark brown fibrous PEAT with many pockets of grey clay		Diameter (mm)	: 74.98	800 - 400	0.026	2.7
		Particle Density (Mg/m ³) (assumed)	: 1.75	400 - 200	0.093	1.0
		Swelling Pressure (kPa)	: NA			

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

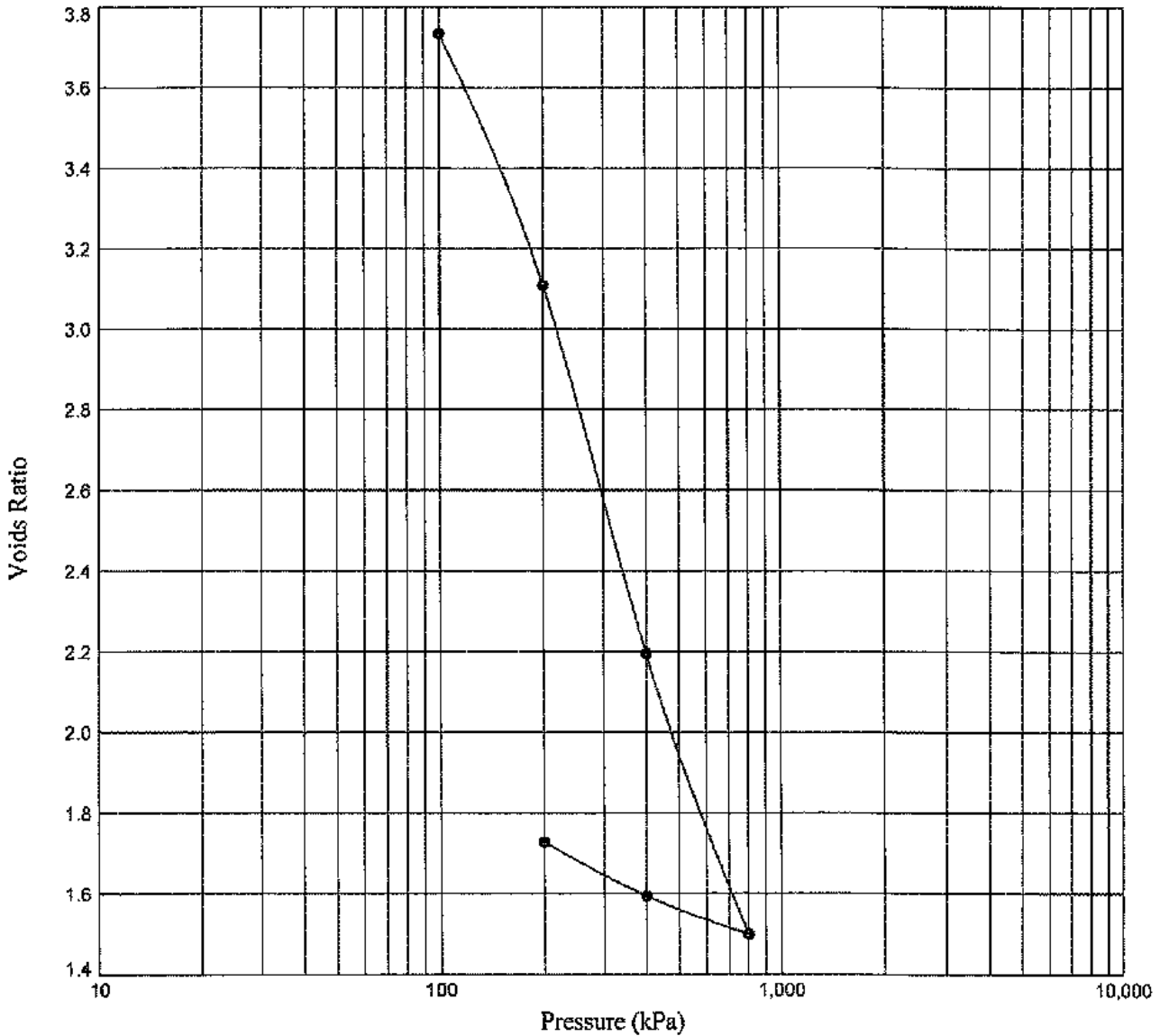
STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date
	[REDACTED]	17/02/09	[REDACTED]	6/3/09
	Contract		Job No	
Sizewell C Supplementary Investigation		722201		

STRUCTURAL_SOILS_GINT_LIBRARY_08-11-06_GLBIL - 1-D CONSOL DATA LOGGED | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION GPJ - v8_02 | 17/02/09 - 12.13

ONE DIMENSIONAL CONSOLIDATION TEST

In accordance with BS1377:Part 5:1990

Borehole : **BH39** Sample Ref: **17** Sample Type: **P** Depth (m): **7.70**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	351	Moisture Content (%)	173	Pressure Range (kPa)	Mv (m ³ /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	1.04	Bulk Density (Mg/m ³)	1.20	0 - 100	0.87	7.3
Dry Density (Mg/m ³)	0.23	Dry Density (Mg/m ³)	0.44	100 - 200	1.3	0.71
Void Ratio	4.185	Void Ratio	1.727	200 - 400	1.1	0.15
Specimen Details						
Description Black fibrous PEAT		Height (mm)	21.12	400 - 800	0.54	0.052
		Diameter (mm)	75.10	800 - 400	0.094	0.19
		Particle Density (Mg/m ³) (assumed)	1.20	400 - 200	0.26	0.070
		Swelling Pressure (kPa)	NA			

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

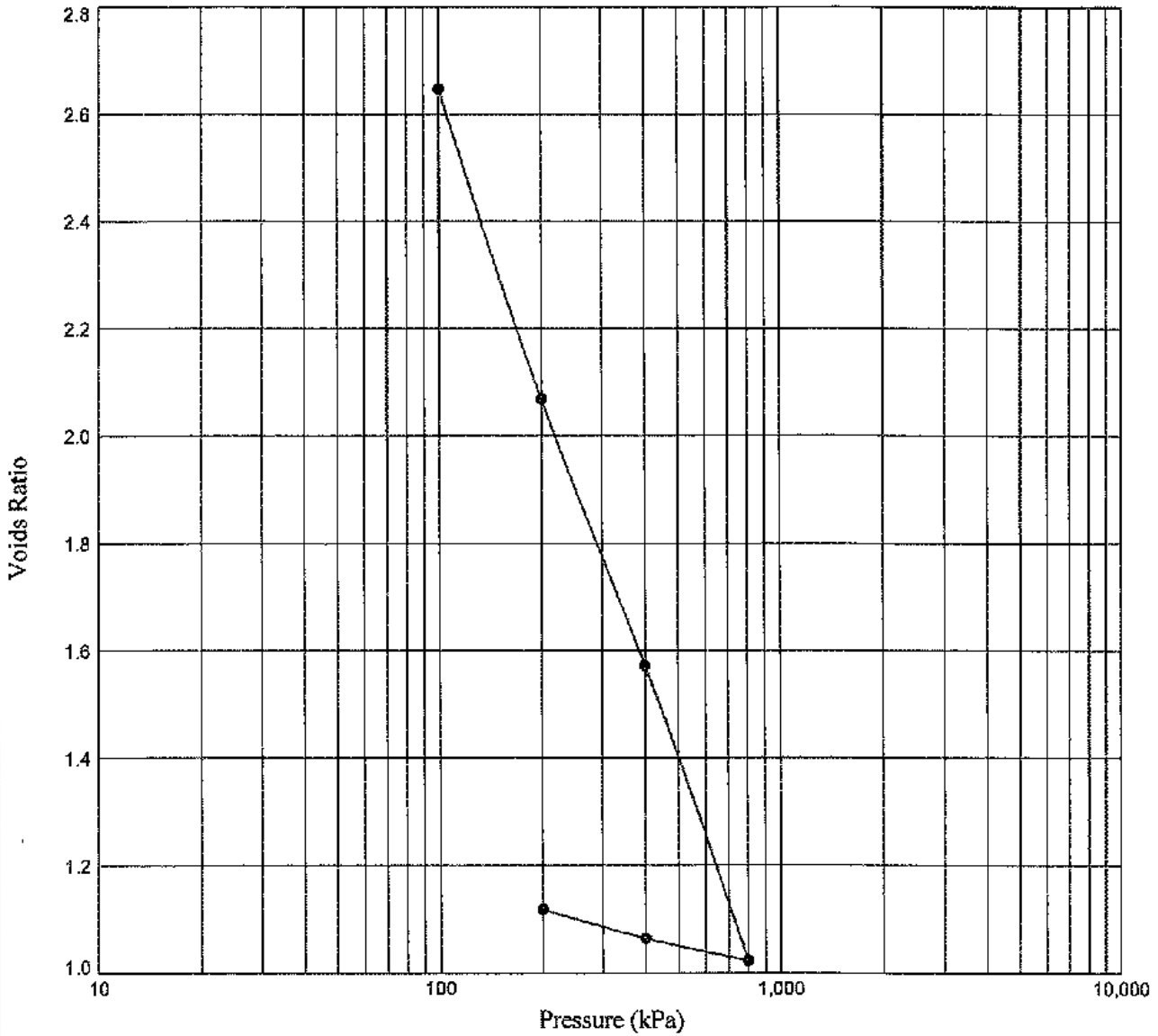
STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date
	[REDACTED]	17/02/09	[REDACTED]	6/3/09
	Contract		Job No	
Sizewell C Supplementary Investigation		722201		

STRUCTURAL_SOILS_GINT_LIBRARY_08-11-06 GLBIL - 1-D CONSOL.DATALOGGED | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION GPJ - v6_02 | 17/02/09 - 12.14.

ONE DIMENSIONAL CONSOLIDATION TEST

In accordance with BS1377:Part 5:1990

Borehole : **BH39** Sample Ref: **20** Sample Type: **P** Depth (m): **8.50**



Initial Specimen Condition		Final Specimen Condition		Test Results			
Moisture Content (%)	: 300	Moisture Content (%)	: 137	Pressure Range (kPa)	Mv (m ² /MN)	Cv (m ² /yr)	
Bulk Density (Mg/m ³)	: 1.05	Bulk Density (Mg/m ³)	: 1.34	0 - 100	2.0	40	
Dry Density (Mg/m ³)	: 0.26	Dry Density (Mg/m ³)	: 0.57	100 - 200	1.6	7.7	
Void Ratio	: 3.575	Void Ratio	: 1.118	200 - 400	0.81	3.3	
Specimen Details				400 - 800	0.53	0.62	
Description Black fibrous PEAT		Height (mm)	: 21.19	800 - 400	0.051	3.0	
		Diameter (mm)	: 75.10	400 - 200	0.13	1.9	
		Particle Density (Mg/m ³)	: 1.20				
		(assumed)					
		Swelling Pressure (kPa)	: NA				

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

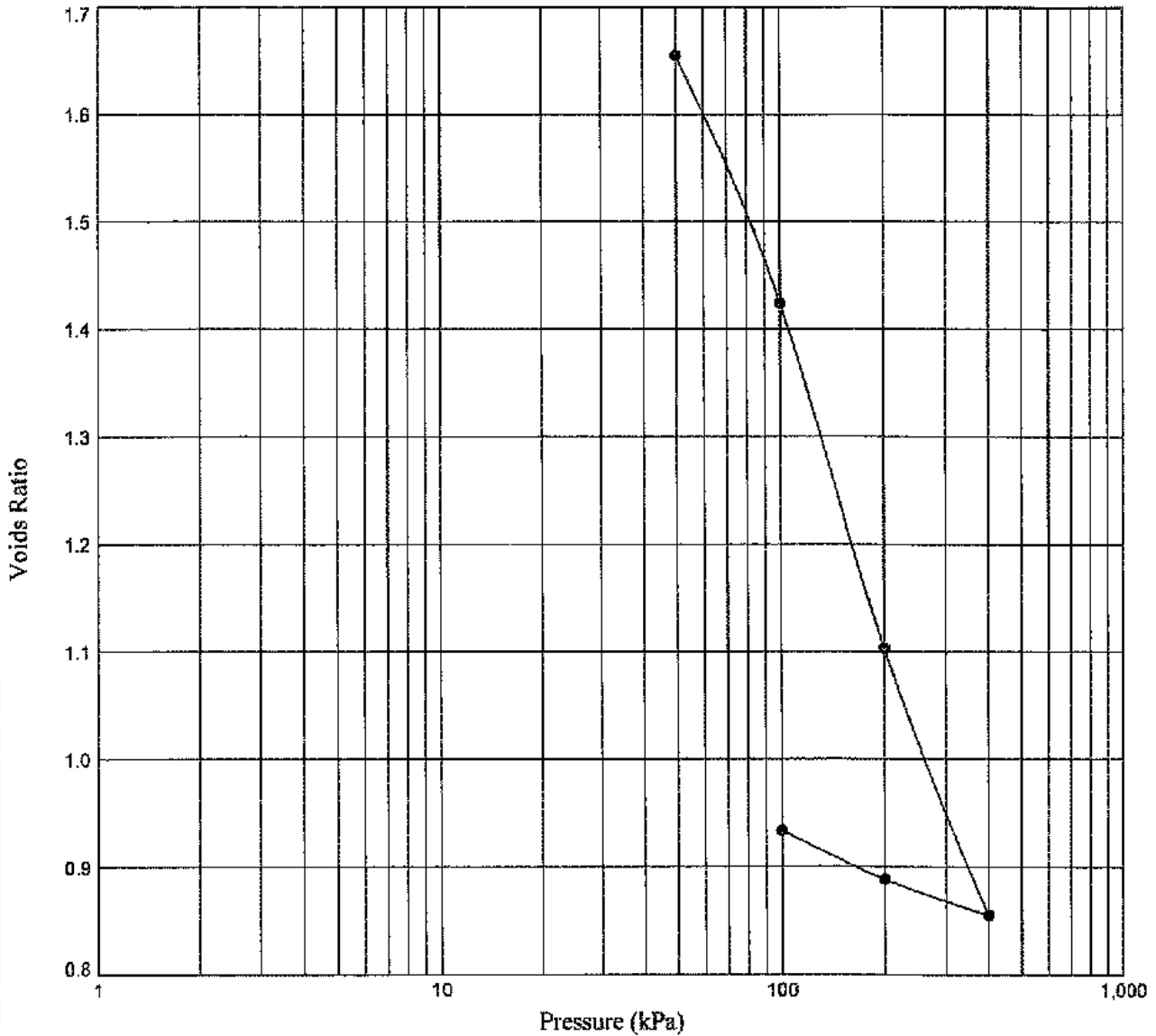
STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date
	[Redacted]	17/02/0	[Redacted]	6/3/09
	Contract Sizewell C Supplementary Investigation		Job No 722201	



ONE DIMENSIONAL CONSOLIDATION TEST



In accordance with BS1377:Part 5:1990

Borehole : **BH40** Sample Ref: **20** Sample Type: **P** Depth (m): **7.50**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	: 145	Moisture Content (%)	: 111	Pressure Range (kPa)	Mv (m ³ /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	: 0.96	Bulk Density (Mg/m ³)	: 1.31	0 - 50	2.8	60
Dry Density (Mg/m ³)	: 0.39	Dry Density (Mg/m ³)	: 0.62	50 - 100	1.7	25
Void Ratio	: 2.079	Void Ratio	: 0.9335	100 - 200	1.3	18
Specimen Details				200 - 400	0.59	9.6
Description		Height (mm)	: 20.92	400 - 200	0.090	3.7
Dark brown fibrous PEAT		Diameter (mm)	: 75.10	200 - 100	0.24	7.2
		Particle Density (Mg/m ³)	: 1.20			
		(assumed)				
		Swelling Pressure (kPa)	: NA			

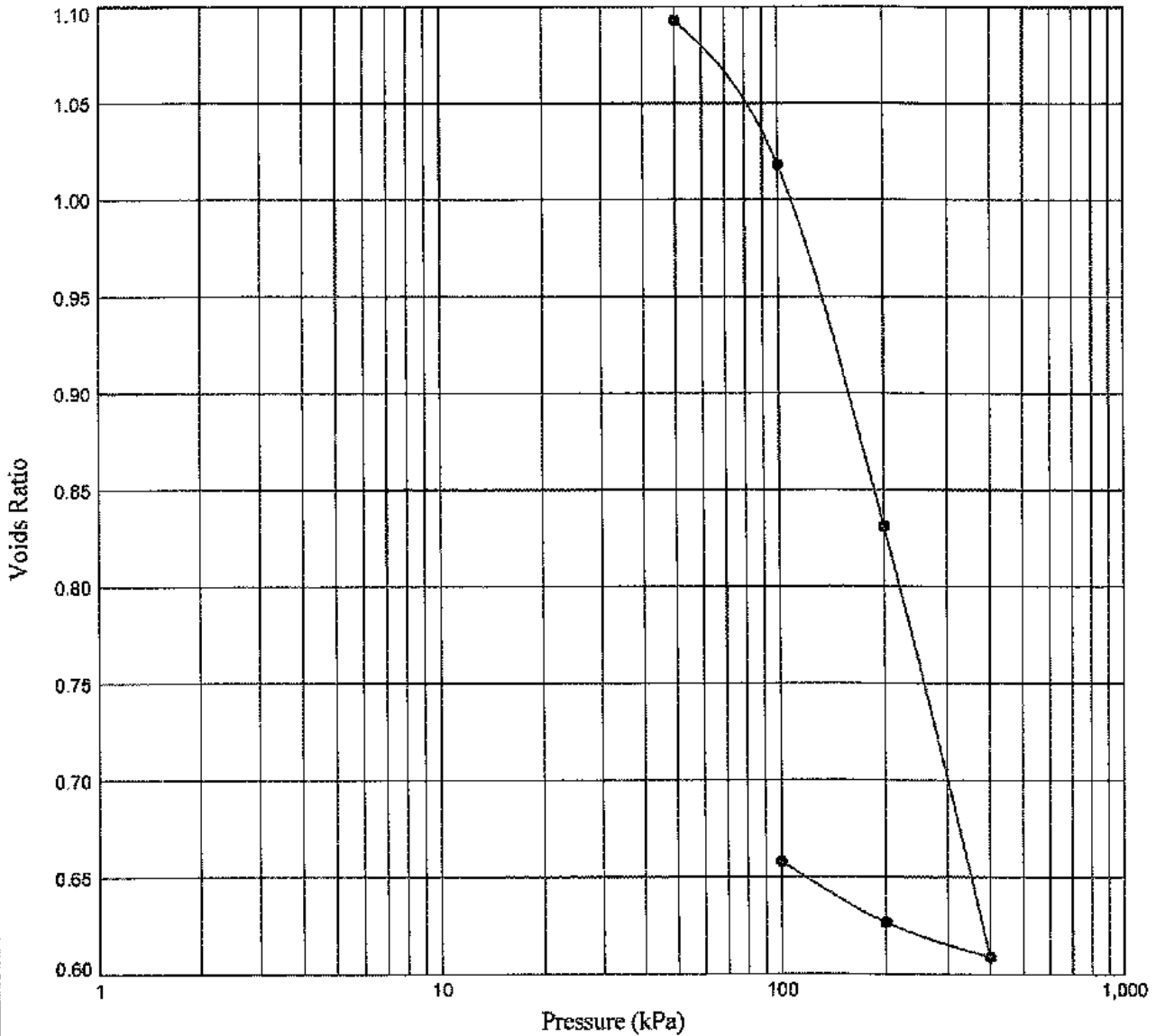
Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date
		17/02/09		6/3/09
	Contract		Job No	
Sizewell C Supplementary Investigation		722201		
				

ONE DIMENSIONAL CONSOLIDATION TEST

In accordance with BS1377:Part 5:1990

Borehole : **BH40** Sample Ref: **20** Sample Type: **P** Depth (m): **7.70**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	82	Moisture Content (%)	59	Pressure Range (kPa)	Mv (m ² /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	1.46	Bulk Density (Mg/m ³)	1.67	0 - 50	0.79	24
Dry Density (Mg/m ³)	0.80	Dry Density (Mg/m ³)	1.05	50 - 100	0.71	2.7
Void Ratio	1.179	Void Ratio	0.6581	100 - 200	0.93	0.70
Specimen Details						
Description Grey CLAY with occasional pockets of peat		Height (mm)	19.11	200 - 400	0.61	0.37
		Diameter (mm)	75.93	400 - 200	0.056	3.6
		Particle Density (Mg/m ³)	1.75	200 - 100	0.19	0.66
		Swelling Pressure (kPa)	NA			

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date
	[Redacted]	17/02/09	[Redacted]	4/3/09
	Contract Sizewell C Supplementary Investigation		Job No 722201	

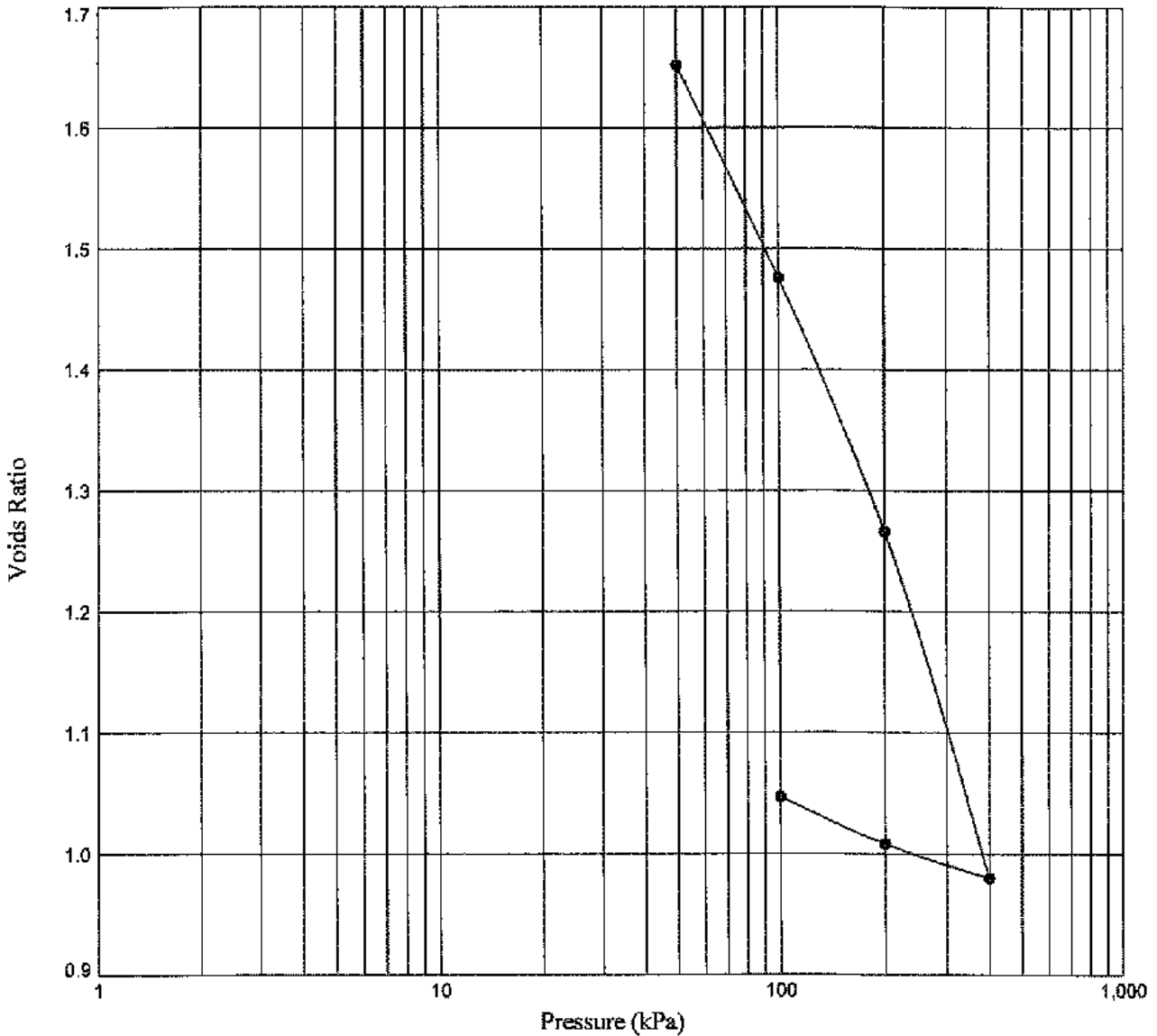
STRUCTURAL_SOILS_GINT_LIBRARY_06-11-06_GLBIL - 1-D CONSOL.DAT\LOGGED [72220]_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 17/02/09 - 12:19.



ONE DIMENSIONAL CONSOLIDATION TEST



In accordance with BS1377:Part 5:1990

Borehole : **BH40** Sample Ref: **21** Sample Type: **P** Depth (m): **9.32**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	: 112	Moisture Content (%)	: 79	Pressure Range (kPa)	Mv (m ² /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	: 1.30	Bulk Density (Mg/m ³)	: 1.53	0 - 50	1.4	14
Dry Density (Mg/m ³)	: 0.62	Dry Density (Mg/m ³)	: 0.85	50 - 100	1.3	3.9
Void Ratio	: 1.845	Void Ratio	: 1.047	100 - 200	0.85	1.7
Specimen Details				200 - 400	0.63	0.93
Description		Height (mm)	: 19.74	400 - 200	0.071	3.0
Grey CLAY with some fibrous organic matter		Diameter (mm)	: 75.02	200 - 100	0.20	1.0
		Particle Density (Mg/m ³)	: 1.75 (assumed)			
		Swelling Pressure (kPa)	: NA			

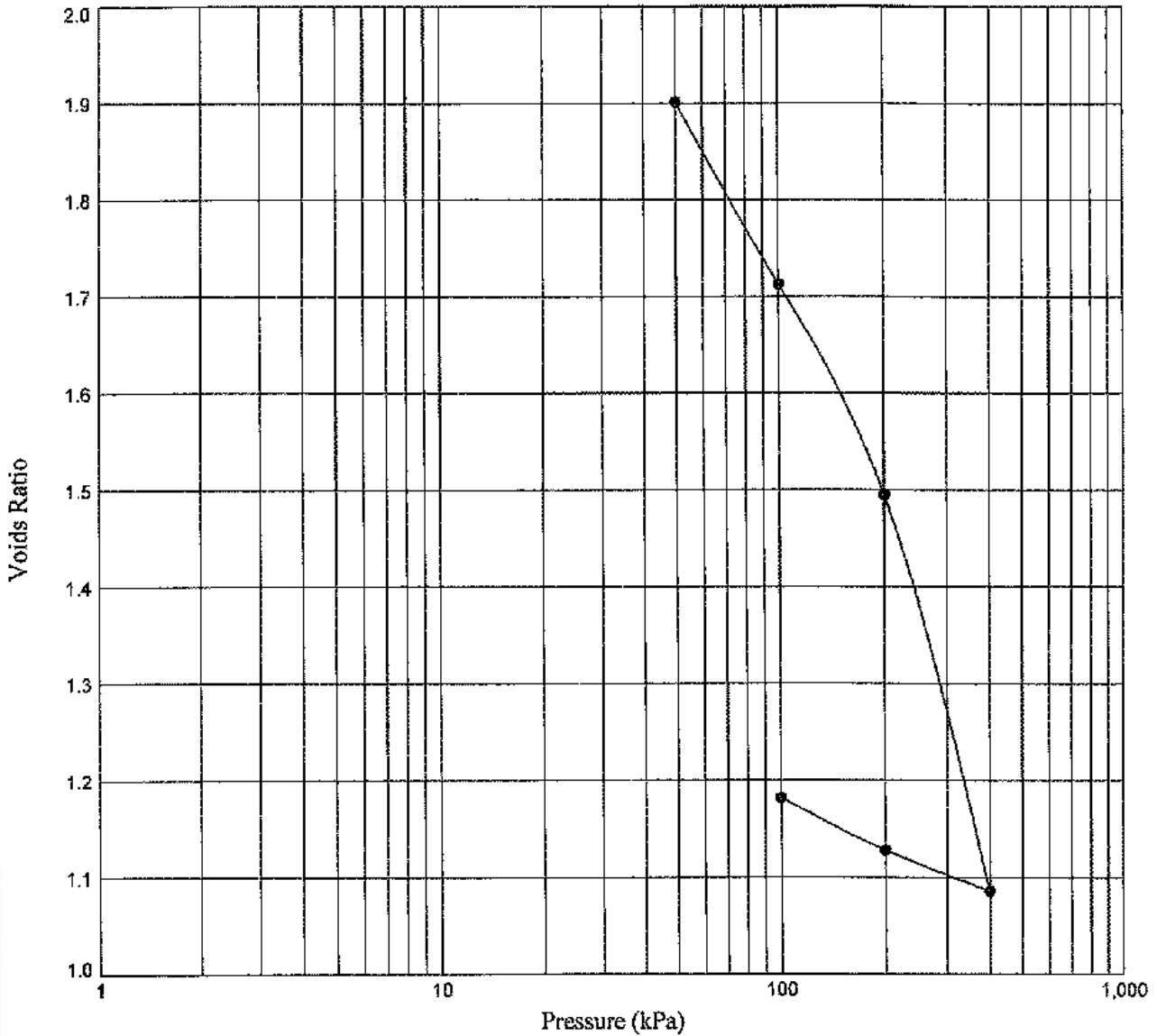
Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date
	[Redacted]	17/02/09	[Redacted]	6/3/09
	Contract		Job No	
<p align="center">Sizewell C Supplementary Investigation</p>		<p align="center">722201</p>		
				

ONE DIMENSIONAL CONSOLIDATION TEST



In accordance with BS1377:Part 5:1990

Borehole : **BH40** Sample Ref: **22** Sample Type: **P** Depth (m): **10.20**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	: 179	Moisture Content (%)	: 135	Pressure Range (kPa)	Mv (m ³ /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	: 1.10	Bulk Density (Mg/m ³)	: 1.29	0 - 50	0.90	59
Dry Density (Mg/m ³)	: 0.40	Dry Density (Mg/m ³)	: 0.55	50 - 100	1.3	18
Void Ratio	: 2.037	Void Ratio	: 1.182	100 - 200	0.80	9.4
Specimen Details				200 - 400	0.82	0.82
Description		Height (mm)	: 19.81	400 - 200	0.100	2.3
Dark brown fibrous PEAT		Diameter (mm)	: 75.03	200 - 100	0.26	1.0
		Particle Density (Mg/m ³)	: 1.20 (assumed)			
		Swelling Pressure (kPa)	: NA			

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

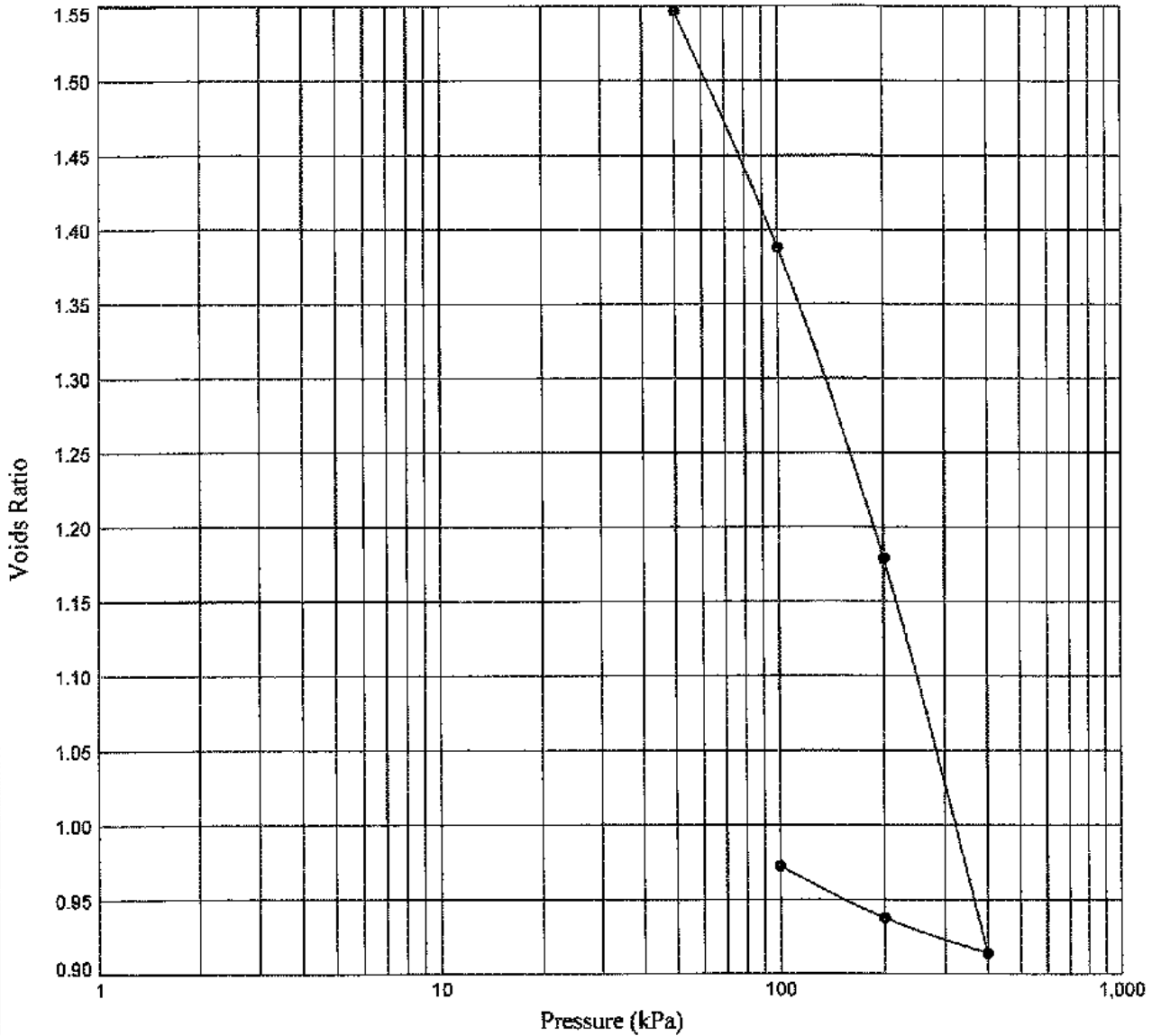
 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date
	[Redacted]	17/02/09	[Redacted]	[Redacted]
	Contract		Job No	
<p align="center">Sizewell C Supplementary Investigation</p>		<p align="center">722201</p>		

STRUCTURAL_SOILS_GWTLIBRARY_08-11-05 GLRIL - 1-D CONSOL DATALOGGED | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION GPJ - v6_02 | 17/02/09 - 12:23

ONE DIMENSIONAL CONSOLIDATION TEST


In accordance with BS1377:Part 5:1990

Borehole : **BH40** Sample Ref: **23** Sample Type: **P** Depth (m): **10.25**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	: 112	Moisture Content (%)	: 73	Pressure Range (kPa)	Mv (m ² /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	: 1.33	Bulk Density (Mg/m ³)	: 1.53	0 - 50	1.7	5.0
Dry Density (Mg/m ³)	: 0.63	Dry Density (Mg/m ³)	: 0.89	50 - 100	1.2	1.2
Void Ratio	: 1.783	Void Ratio	: 0.9723	100 - 200	0.88	0.90
Specimen Details				200 - 400	0.61	0.58
Description Grey CLAY with occasional fibrous organic matter		Height (mm)	: 20.49	400 - 200	0.062	2.0
		Diameter (mm)	: 75.15	200 - 100	0.18	1.4
		Particle Density (Mg/m ³) (assumed)	: 1.75			
		Swelling Pressure (kPa)	: NA			

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date
	[Redacted]	17/02/09	[Redacted]	6/3/09
	Contract Sizewell C Supplementary Investigation		Job No 722201	

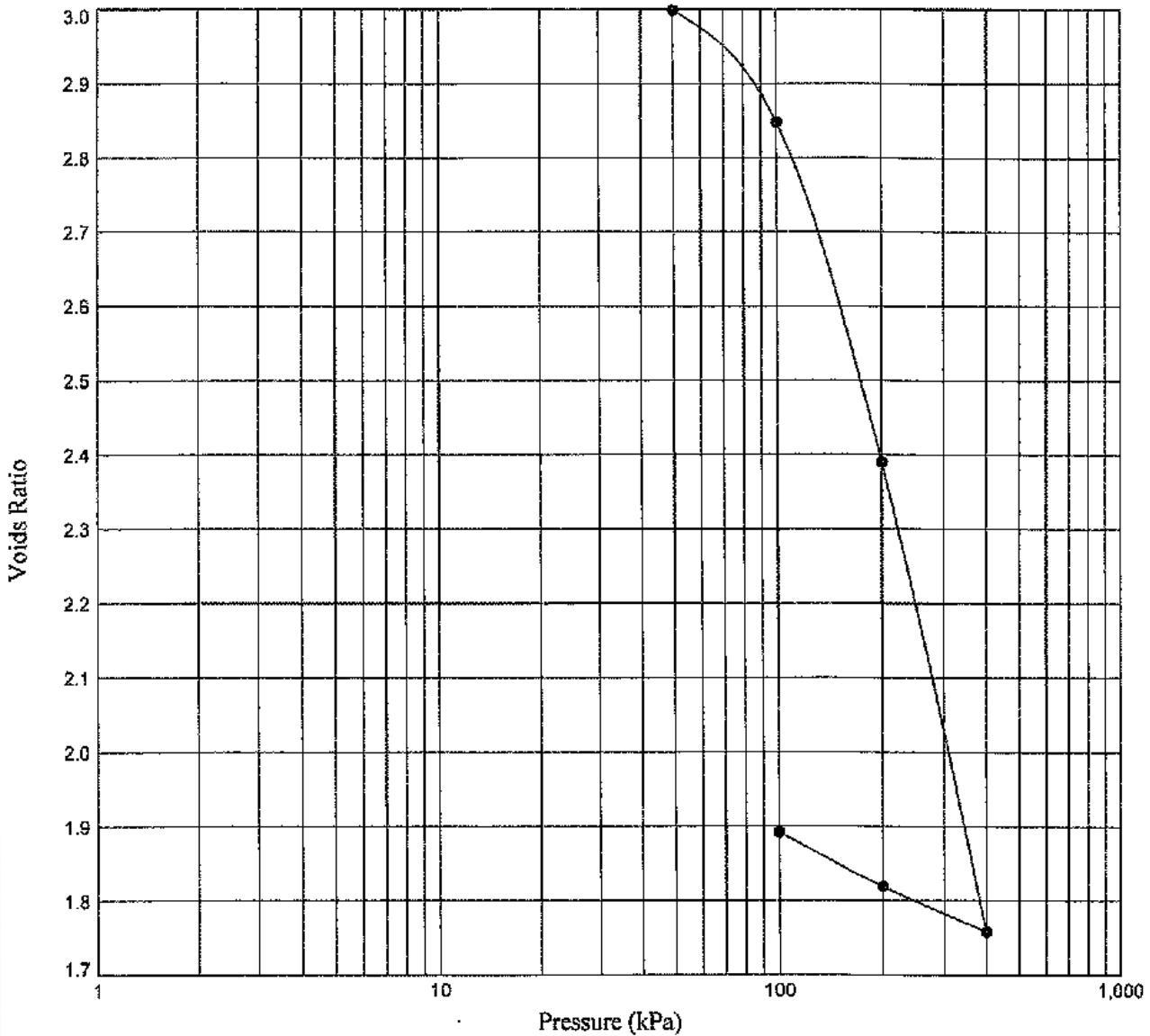


STRUCTURAL_SOILS_GHNT_LIBRARY_08-11-06-GLBL - 1-D CONSOL.DAT\LOGGED\722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v6_02 | 17/02/09 - 12:25

ONE DIMENSIONAL CONSOLIDATION TEST



In accordance with BS1377:Part 5:1990

Borehole : **BH40** Sample Ref: **23** Sample Type: **P** Depth (m): **10.97**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	: 266	Moisture Content (%)	: 193	Pressure Range (kPa)	Mv (m ² /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	: 1.05	Bulk Density (Mg/m ³)	: 1.21	0 - 50	0.84	40
Dry Density (Mg/m ³)	: 0.29	Dry Density (Mg/m ³)	: 0.41	50 - 100	0.76	33
Void Ratio	: 3.175	Void Ratio	: 1.892	100 - 200	1.2	21
Specimen Details				200 - 400	0.93	8.6
Description		Height (mm)	: 19.29	400 - 200	0.11	4.5
Dark brown fibrous PEAT		Diameter (mm)	: 75.01	200 - 100	0.26	6.7
		Particle Density (Mg/m ³)	: 1.20 (assumed)			
		Swelling Pressure (kPa)	: NA			

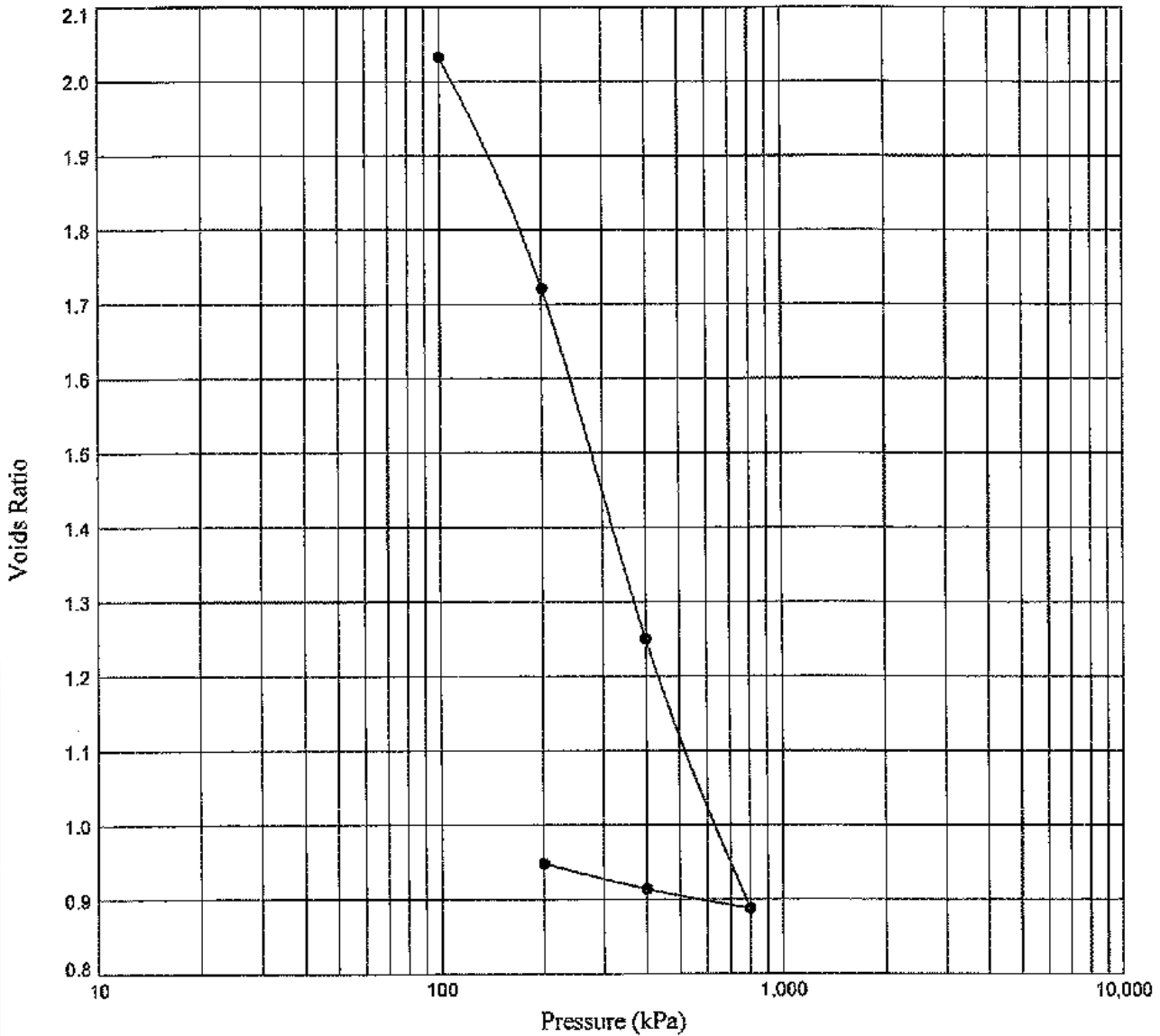
Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date
	[Redacted]	17/02/09	[Redacted]	17/02/09
	Contract		Job No	
Sizewell C Supplementary Investigation		722201		
				

ONE DIMENSIONAL CONSOLIDATION TEST



In accordance with BS1377:Part 5:1990

Borehole : **BH40** Sample Ref: **24** Sample Type: **P** Depth (m): **11.50**



Initial Specimen Condition		Final Specimen Condition		Test Results		
Moisture Content (%)	: 166	Moisture Content (%)	: 89	Pressure Range (kPa)	Mv (m ³ /MN)	Cv (m ² /yr)
Bulk Density (Mg/m ³)	: 1.12	Bulk Density (Mg/m ³)	: 1.46	0 - 100	1.4	72
Dry Density (Mg/m ³)	: 0.42	Dry Density (Mg/m ³)	: 0.77	100 - 200	1.0	42
Void Ratio	: 2.547	Void Ratio	: 0.9479	200 - 400	0.87	12
Specimen Details				400 - 800	0.40	3.4
Description		Height (mm)	: 21.34	800 - 400	0.034	9.1
Black amorphous PEAT		Diameter (mm)	: 75.10	400 - 200	0.090	12
		Particle Density (Mg/m ³)	: 1.50			
		(assumed)				
		Swelling Pressure (kPa)	: NA			

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date
	[Redacted]	17/02/09	[Redacted]	03/09
	Contract		Job No	
Sizewell C Supplementary Investigation		722201		


STRUCTURAL_SOILS_GINT_LIBRARY_08-11-08.GLBIL - 1-D CONSOL. DATA LOGGED | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 17/02/09 - 12.28

SUMMARY OF LABORATORY HAND PENETROMETER & VANE TEST RESULTS

Hole Reference	Sample Ref	Sample Type	Sample Depth (m)	Moisture Content (%)	Vane Type	Average Reading (kPa)	Sample Description
BH7	13	P	3.85	108	HVP	16	Grey organic CLAY
BH7	13	P	4.70	276	HVP	50	Dark brown fibrous PEAT
BH7	14	P	4.90	91	HVP	15	Grey organic CLAY
BH7	14	P	5.65	472	HVP	19	Dark brown fibrous PEAT
BH7	15	P	6.00	430	HVP	11	Dark brown fibrous PEAT
BH7	15	P	6.63	388	HVP	25	Dark brown fibrous PEAT
BH7	16	P	7.00	454	HVP	10	Dark brown fibrous PEAT
BH7	16	P	7.50	452	HVP	11	Black fibrous PEAT

Key : HVP = Hand Vane (Peak), HVR = Hand Vane (Remoulded), PP = Pocket Penetrometer.

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN


 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref: 722201
	[REDACTED]	13.02.09	[REDACTED]	6/3/09	
Contract: Sizewell C Supplementary Investigation					

SUMMARY OF LABORATORY HAND PENETROMETER & VANE TEST RESULTS

Hole Reference	Sample Ref	Sample Type	Sample Depth (m)	Moisture Content (%)	Vane Type	Average Reading (kPa)	Sample Description
BH7	16	P	7.65	389	HVP	8	Dark brown fibrous PEAT
BH7	17	P	8.20	449	HVP	12	Dark brown fibrous PEAT
BH36	8	P	3.10	401	HVP	37	Dark brown fibrous PEAT
BH36	9	P	4.60	585	HVP	22	Dark brown fibrous PEAT
BH36	10	P	5.03	372	HVP	4	Dark brown fibrous PEAT
BH36	10	P	5.90	485	HVP	8	Dark brown fibrous PEAT
BH36	21	P	7.95	539	HVP	17	Black fibrous PEAT
BH39	16	P	6.15	95	HVP	40	Grey CLAY with some fibrous organic matter

Key : HVP = Hand Vane (Peak), HVR = Hand Vane (Remoulded), PP = Pocket Penetrometer.

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref:
	[REDACTED]	13.02.09	[REDACTED]	6/3/09	
Sizewell C Supplementary Investigation					722201

SUMMARY OF LABORATORY HAND PENETROMETER & VANE TEST RESULTS

Hole Reference	Sample Ref	Sample Type	Sample Depth (m)	Moisture Content (%)	Vane Type	Average Reading (kPa)	Sample Description
BH39	16	P	6.96	78	HVP	59	Grey CLAY with occasional fibrous organic matter
BH39	17	P	7.10	286	HVP	51	Dark brown fibrous PEAT
BH39	17	P	7.87	308	HVP	86	Black fibrous PEAT
BH39	20	P	8.60	299	HVP	110	Black amorphous PEAT
BH39	20	P	9.25	31	HVP	65	Grey silty SAND with occasional organic matter
BH40	20	P	7.53	292	HVP	141	Dark brown fibrous PEAT
BH40	20	P	8.40	44	HVP	50	Grey CLAY with occasional fibrous organic matter
BH40	21	P	8.55	73	HVP	24	Grey CLAY with occasional fibrous organic matter

Key : HVP = Hand Vane (Peak), HVR = Hand Vane (Remoulded), PP = Pocket Penetrometer.

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	13.02.09	[REDACTED]	6/3/09
Contract: Sizewell C Supplementary Investigation			


Contract Ref: **722201**

SUMMARY OF LABORATORY HAND PENETROMETER & VANE TEST RESULTS

Hole Reference	Sample Ref	Sample Type	Sample Depth (m)	Moisture Content (%)	Vane Type	Average Reading (kPa)	Sample Description
BH40	21	P	9.05	52	HVP	25	Grey CLAY with occasional fibrous organic matter
BH40	22	P	9.37	87	HVP	31	Dark brown fibrous PEAT with pockets of grey clay
BH40	22	P	10.20	197	HVP	105	Dark brown fibrous PEAT
BH40	23	P	11.20	219	HVP	83	Black amorphous PEAT

Key : HVP = Hand Vane (Peak), HVR = Hand Vane (Remoulded), PP = Pocket Penetrometer.

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref: <h2 style="margin: 0;">722201</h2>
	[REDACTED]	13.02.09	[REDACTED]	6/3/09	
Contract: Sizewell C Supplementary Investigation					

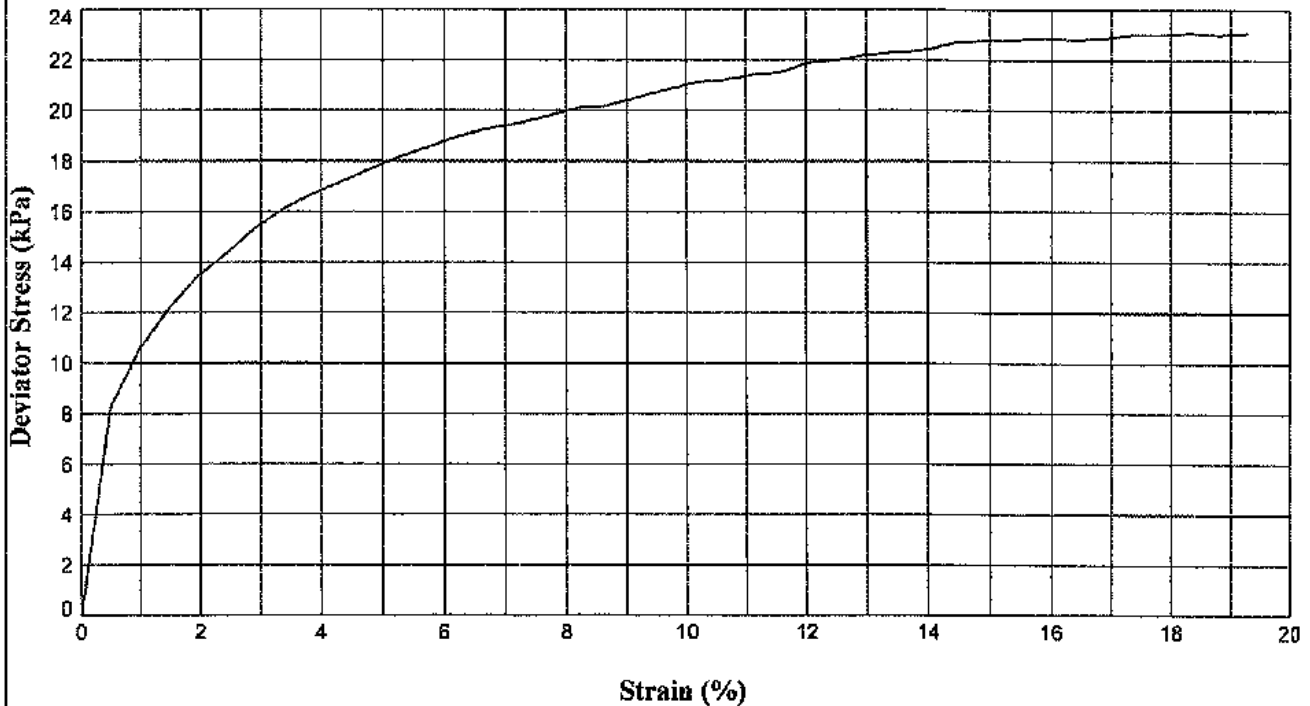
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH7** Sample Ref: **14** Sample Type: **P** Depth (m): **4.85**

Description : **Grey organic CLAY**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	99.25		
	Height (mm)	207.33		
	Moisture Content (%)	91		
	Bulk Density (Mg/m ³)	1.49		
	Dry Density (Mg/m ³)	0.78		
TEST DETAILS	Membrane Thickness (mm)	0.32		
	Rate of Axial Displacement (%/min)	1.21		
	Cell Pressure (kPa)	50		
	Membrane Correction (kPa)	1.15		
	Corrected Deviator Stress (kPa)	22		
	Undrained Shear Strength (kPa)	11		
	Strain at Failure (%)	18.3		
	Mode of Failure	Plastic		



Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By

Date

Checked By

Date

13/02/0

Job No

**Sizewell C Supplementary
Investigation**

722201



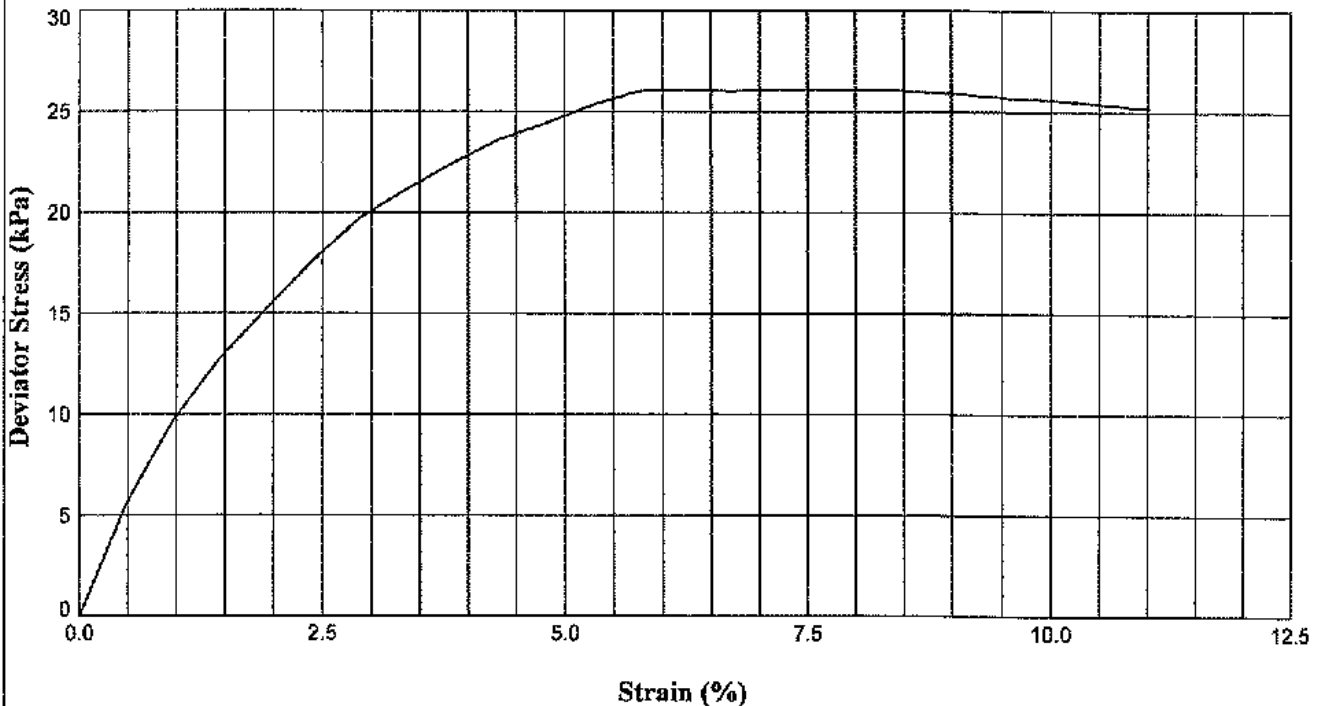
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH7** Sample Ref: **15** Sample Type: **P** Depth (m): **6.00**

Description : **Dark brown fibrous PEAT**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	100.32		
	Height (mm)	208.67		
	Moisture Content (%)	430		
	Bulk Density (Mg/m ³)	1.08		
	Dry Density (Mg/m ³)	0.20		
TEST DETAILS	Membrane Thickness (mm)	0.30		
	Rate of Axial Displacement (%/min)	1.20		
	Cell Pressure (kPa)	75		
	Membrane Correction (kPa)	0.47		
	Corrected Deviator Stress (kPa)	26		
	Undrained Shear Strength (kPa)	13		
	Strain at Failure (%)	6.2		
	Mode of Failure	Compound		



Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	13/02/09	[Redacted]	6/3/09
Contract		Job No	
Sizewell C Supplementary Investigation		722201	

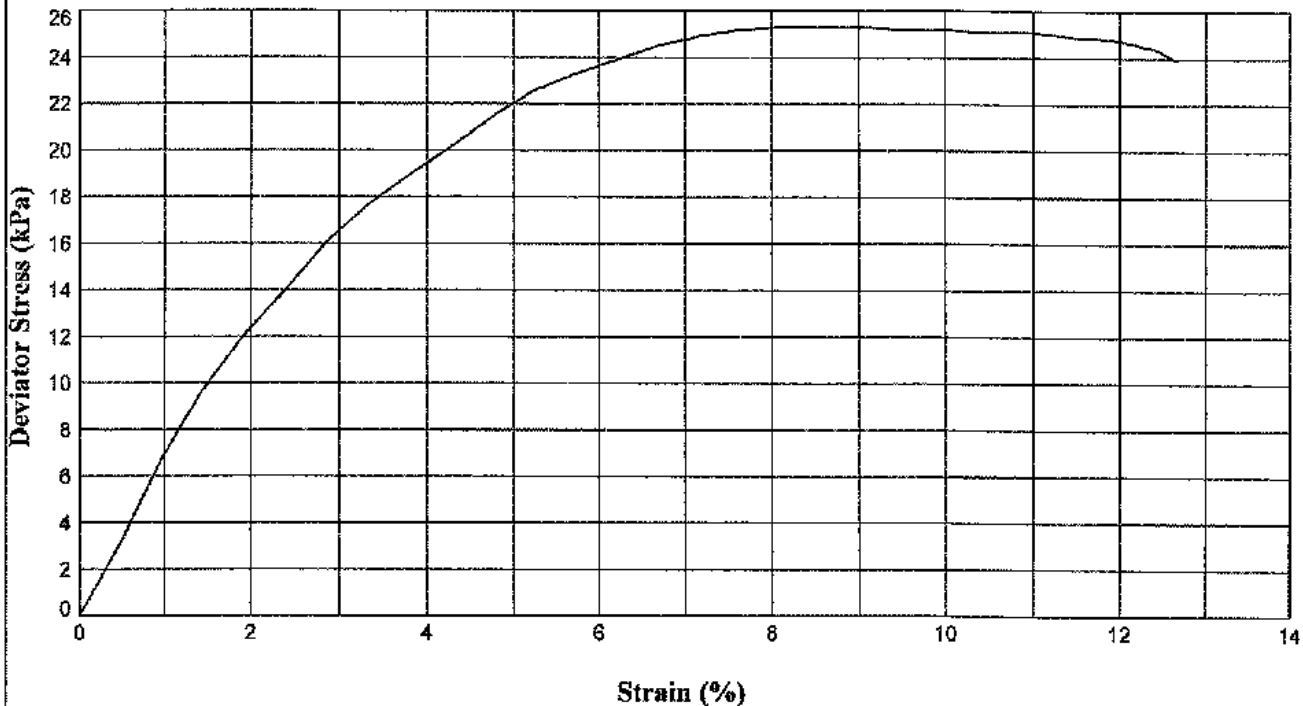
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH7** Sample Ref: **16** Sample Type: **P** Depth (m): **6.96**

Description : **Dark brown fibrous PEAT**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	99.27		
	Height (mm)	209.33		
	Moisture Content (%)	454		
	Bulk Density (Mg/m ³)	1.06		
	Dry Density (Mg/m ³)	0.19		
TEST DETAILS	Membrane Thickness (mm)	0.53		
	Rate of Axial Displacement (%/min)	1.19		
	Cell Pressure (kPa)	100		
	Membrane Correction (kPa)	1.08		
	Corrected Deviator Stress (kPa)	24		
	Undrained Shear Strength (kPa)	12		
	Strain at Failure (%)	8.1		
	Mode of Failure	Compound		



Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By

Date

Checked By

Date

13/02/09

13/09

Job No

**Sizewell C Supplementary
Investigation**

722201



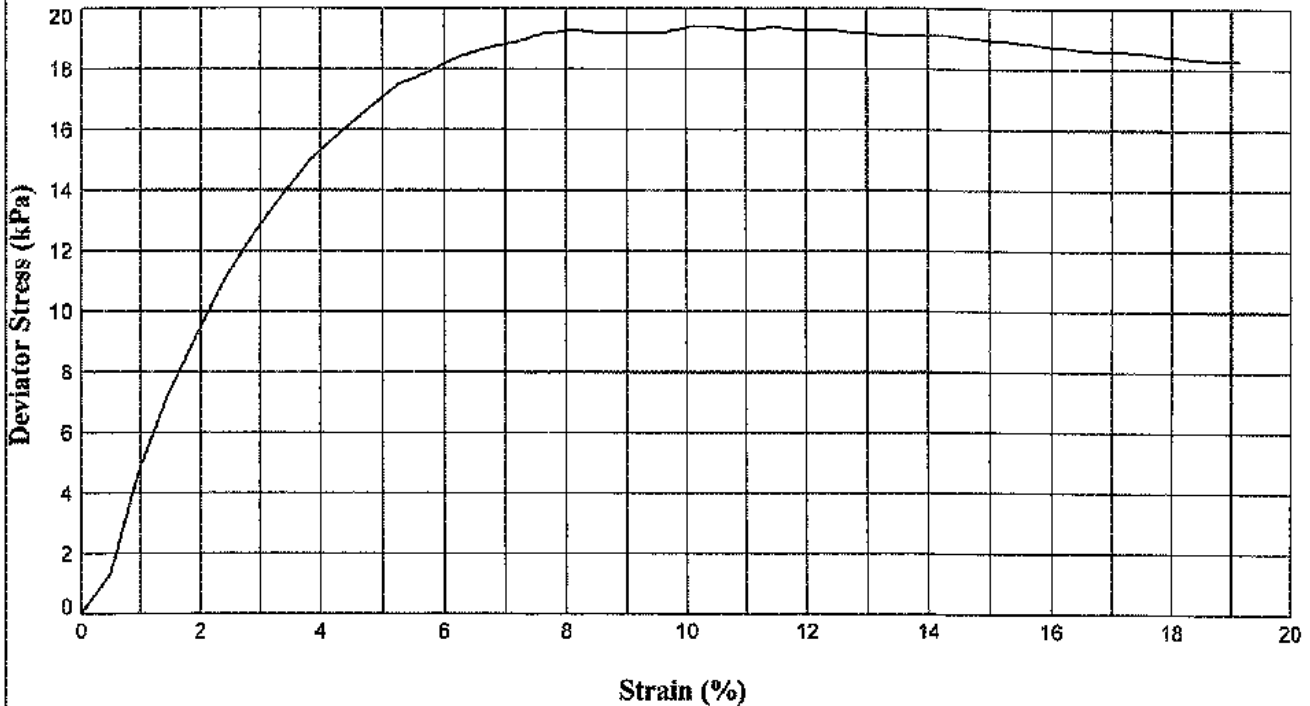
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH7** Sample Ref: **16** Sample Type: **P** Depth (m): **7.65**

Description : **Dark brown fibrous PEAT**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	99.23		
	Height (mm)	209.00		
	Moisture Content (%)	389		
	Bulk Density (Mg/m ³)	1.08		
	Dry Density (Mg/m ³)	0.22		
TEST DETAILS	Membrane Thickness (mm)	0.31		
	Rate of Axial Displacement (%/min)	1.20		
	Cell Pressure (kPa)	125		
	Membrane Correction (kPa)	0.58		
	Corrected Deviator Stress (kPa)	19		
	Undrained Shear Strength (kPa)	9		
	Strain at Failure (%)	7.7		
	Mode of Failure	Compound		



Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	13/02/09	[REDACTED]	6/3/09
Contract Sizewell C Supplementary Investigation		722201	

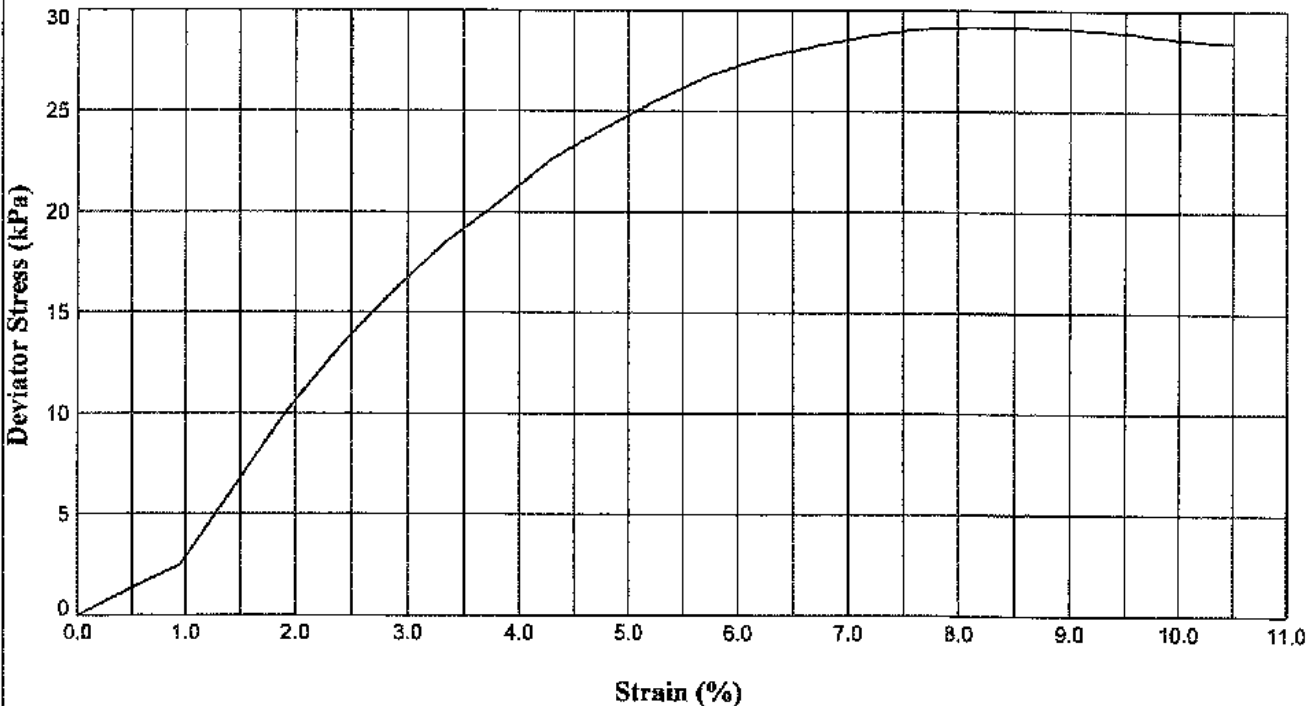
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH7** Sample Ref: **17** Sample Type: **P** Depth (m): **8.00**

Description : **Dark brown fibrous PEAT**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	100.08		
	Height (mm)	209.67		
	Moisture Content (%)	449		
	Bulk Density (Mg/m ³)	1.05		
	Dry Density (Mg/m ³)	0.19		
TEST DETAILS	Membrane Thickness (mm)	0.30		
	Rate of Axial Displacement (%/min)	1.19		
	Cell Pressure (kPa)	150		
	Membrane Correction (kPa)	0.58		
	Corrected Deviator Stress (kPa)	29		
	Undrained Shear Strength (kPa)	14		
	Strain at Failure (%)	8.1		
	Mode of Failure	Compound		



Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	13/02/09	[Redacted]	6/3/09
Contract		Job No	
Sizewell C Supplementary Investigation		722201	



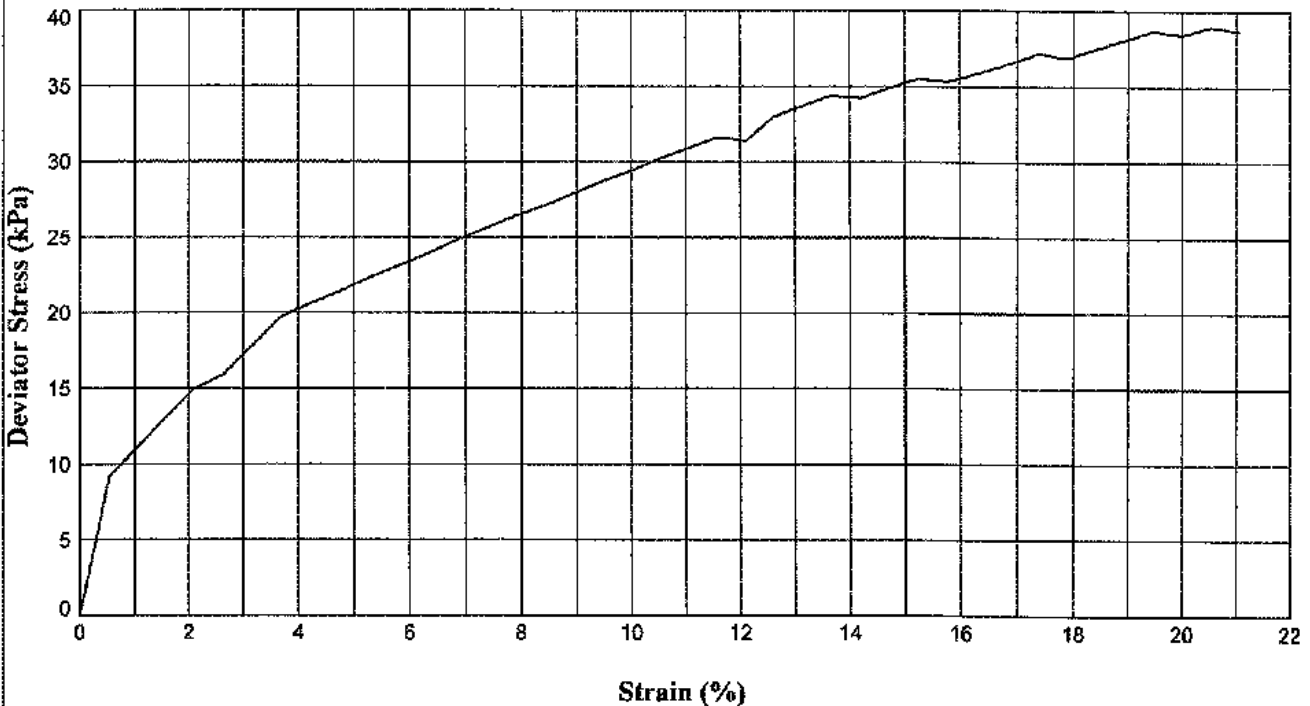
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH36** Sample Ref: **7** Sample Type: **P** Depth (m): **2.09**

Description : **Grey CLAY with occasional fibrous organic matter**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	38.00		
	Height (mm)	76.00		
	Moisture Content (%)	85		
	Bulk Density (Mg/m ³)	1.48		
	Dry Density (Mg/m ³)	0.80		
TEST DETAILS	Membrane Thickness (mm)	0.28		
	Rate of Axial Displacement (%/min)	1.32		
	Cell Pressure (kPa)	25		
	Membrane Correction (kPa)	2.87		
	Corrected Deviator Stress (kPa)	36		
	Undrained Shear Strength (kPa)	18		
	Strain at Failure (%)	20.5		
	Mode of Failure	Plastic		



Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By		Date	Checked By	Date
		13/02/09		13/09
Contract	Sizewell C Supplementary Investigation		Job No	722201

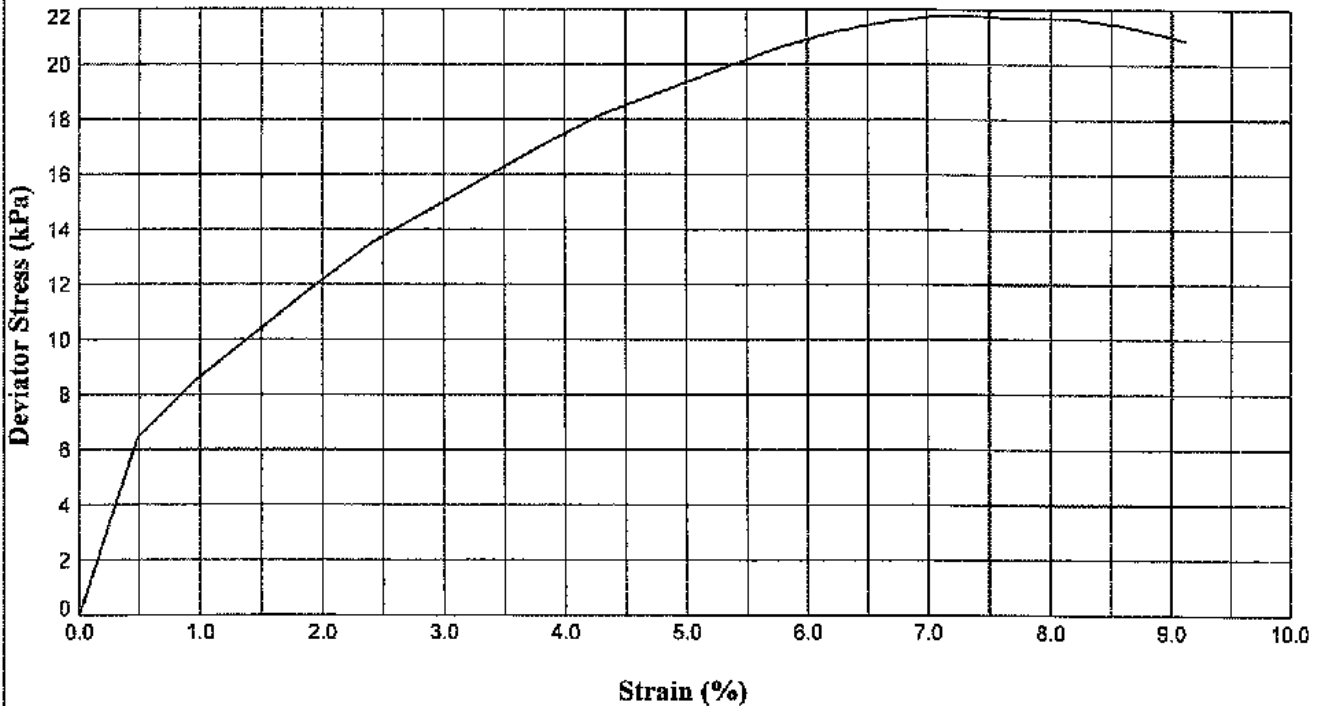
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH36** Sample Ref: **9** Sample Type: **P** Depth (m): **4.14**

Description : **Dark brown fibrous PEAT**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	99.67		
	Height (mm)	208.67		
	Moisture Content (%)	529		
	Bulk Density (Mg/m ³)	1.01		
	Dry Density (Mg/m ³)	0.16		
TEST DETAILS	Membrane Thickness (mm)	0.34		
	Rate of Axial Displacement (%/min)	0.96		
	Cell Pressure (kPa)	50		
	Membrane Correction (kPa)	0.60		
	Corrected Deviator Stress (kPa)	21		
	Undrained Shear Strength (kPa)	11		
	Strain at Failure (%)	7.2		
	Mode of Failure	Compound		



Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	13/02/09	[Redacted]	6/3/09
Contract		Job No	
Sizewell C Supplementary Investigation		722201	

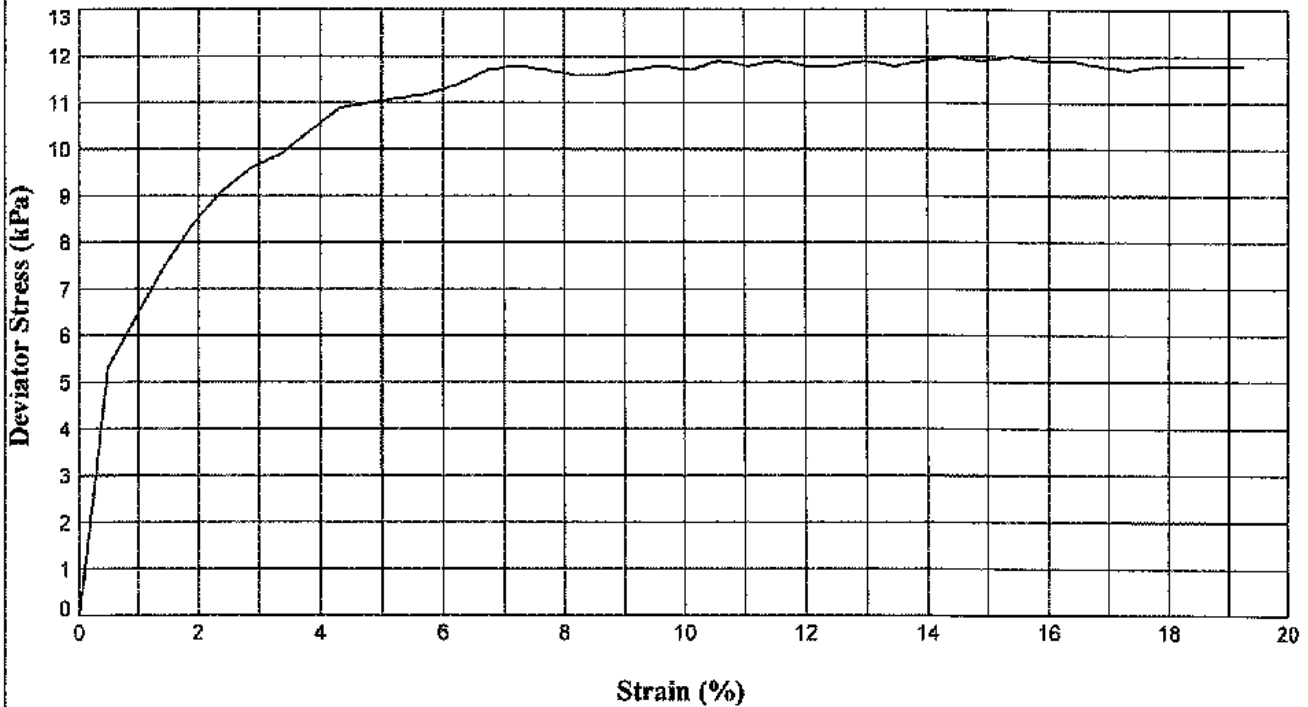
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH36** Sample Ref: **10** Sample Type: **P** Depth (m): **5.26**

Description : **Dark brown fibrous PEAT**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	99.50		
	Height (mm)	208.00		
	Moisture Content (%)	475		
	Bulk Density (Mg/m ³)	1.07		
	Dry Density (Mg/m ³)	0.19		
TEST DETAILS	Membrane Thickness (mm)	0.34		
	Rate of Axial Displacement (%/min)	1.20		
	Cell Pressure (kPa)	75		
	Membrane Correction (kPa)	0.61		
	Corrected Deviator Stress (kPa)	11		
	Undrained Shear Strength (kPa)	6		
	Strain at Failure (%)	7.2		
	Mode of Failure	Compound		



Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	3/02/09	[Redacted]	3/09
Contract		Job No	
Sizewell C Supplementary Investigation		722201	

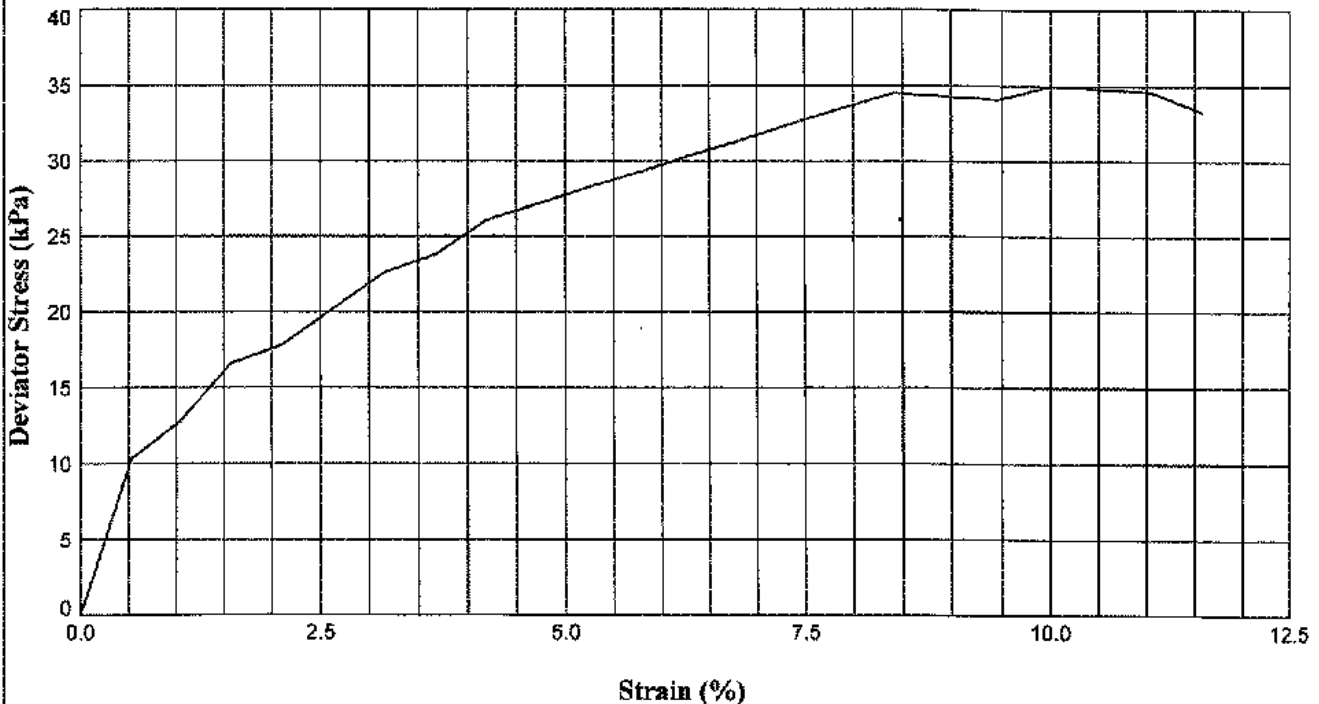
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH36** Sample Ref: **11** Sample Type: **P** Depth (m): **6.10**

Description : **Black amorphous PEAT**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	38.00		
	Height (mm)	76.00		
	Moisture Content (%)	388		
	Bulk Density (Mg/m ³)	0.98		
	Dry Density (Mg/m ³)	0.20		
TEST DETAILS	Membrane Thickness (mm)	0.25		
	Rate of Axial Displacement (%/min)	1.32		
	Cell Pressure (kPa)	100		
	Membrane Correction (kPa)	1.52		
	Corrected Deviator Stress (kPa)	34		
	Undrained Shear Strength (kPa)	17		
	Strain at Failure (%)	10.0		
	Mode of Failure	Compound		



Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By <i>[Signature]</i>	Date 13/02/09	Checked By <i>[Signature]</i>	Date 13/02/09
Contract Sizewell C Supplementary Investigation		722201	

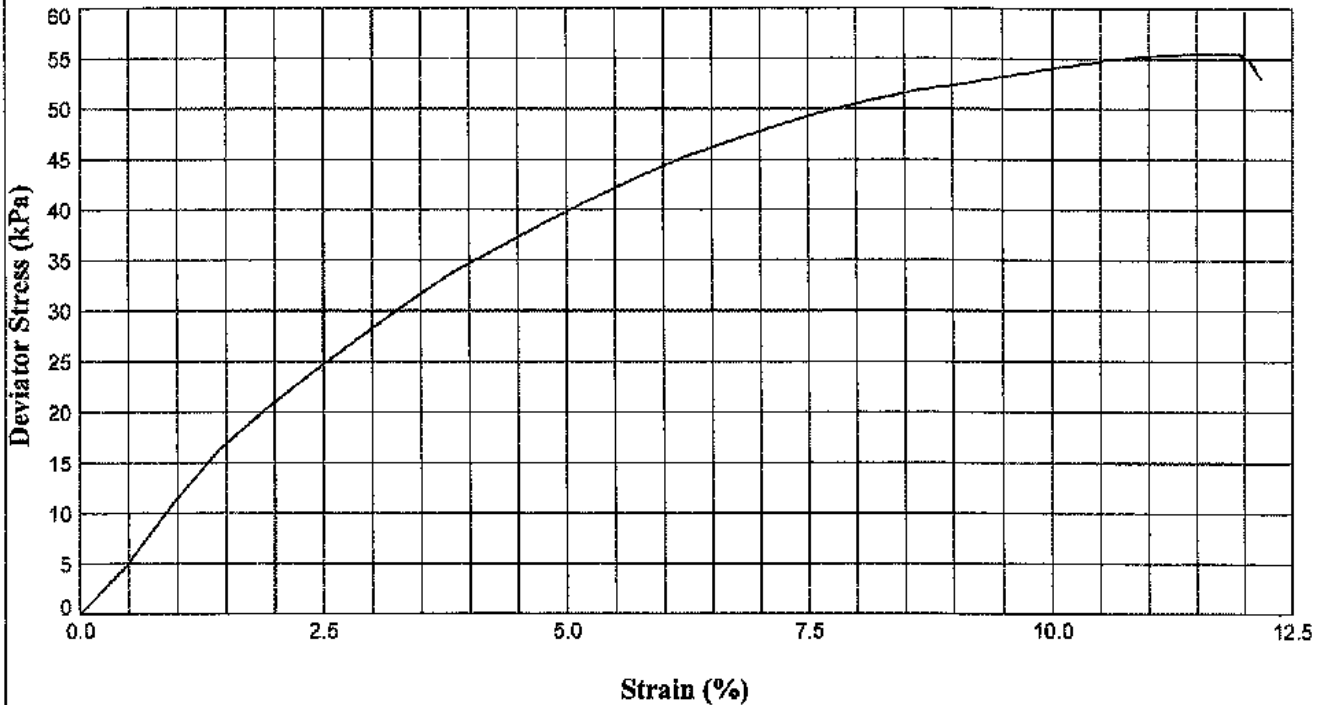
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAXIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH36** Sample Ref: **21** Sample Type: **P** Depth (m): **7.50**

Description : **Dark brown fibrous PEAT**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	100.35		
	Height (mm)	209.33		
	Moisture Content (%)	445		
	Bulk Density (Mg/m ³)	1.09		
	Dry Density (Mg/m ³)	0.20		
TEST DETAILS	Membrane Thickness (mm)	0.32		
	Rate of Axial Displacement (%/min)	1.19		
	Cell Pressure (kPa)	125		
	Membrane Correction (kPa)	0.81		
	Corrected Deviator Stress (kPa)	55		
	Undrained Shear Strength (kPa)	27		
	Strain at Failure (%)	11.5		
	Mode of Failure	Compound		



Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By		Date	Checked By	
		13/02/09		13/02/09
Sizewell C Supplementary Investigation		722201		

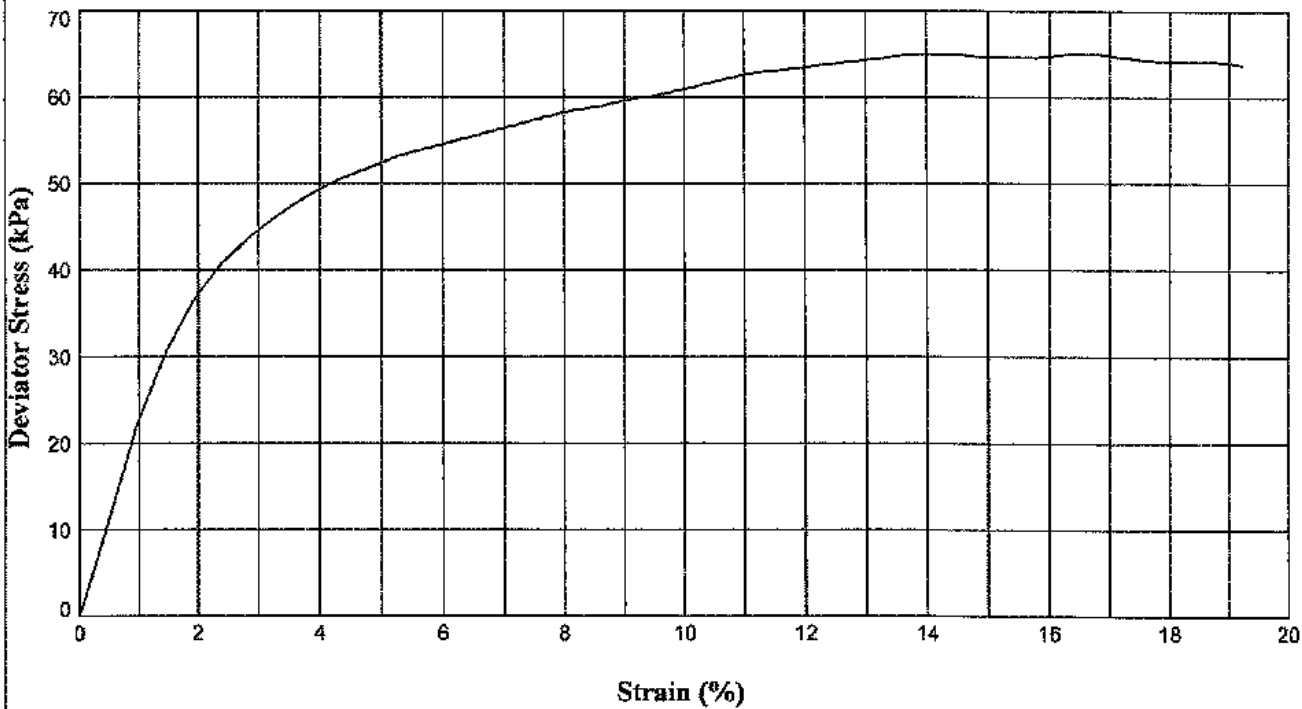
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAXIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH39** Sample Ref: **16** Sample Type: **P** Depth (m): **6.14**

Description : **Grey CLAY with occasional fibrous organic matter**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	101.03		
	Height (mm)	208.00		
	Moisture Content (%)	99		
	Bulk Density (Mg/m ³)	1.38		
	Dry Density (Mg/m ³)	0.69		
TEST DETAILS	Membrane Thickness (mm)	0.32		
	Rate of Axial Displacement (%/min)	1.20		
	Cell Pressure (kPa)	75		
	Membrane Correction (kPa)	0.92		
	Corrected Deviator Stress (kPa)	64		
	Undrained Shear Strength (kPa)	32		
	Strain at Failure (%)	13.9		
	Mode of Failure	Plastic		



Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By: [REDACTED]	Date: 13/02/00	Checked By: [REDACTED]	Date: 13/02/00
	Contract: Sizewell C Supplementary Investigation	Job No: 722201		

STRUCTURAL_SOILS_GINT_LIBRARY.GLB.L - TRIAXIAL TEST - BS VERSION (722201)_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v6_D2 (1302/00 - 12:28

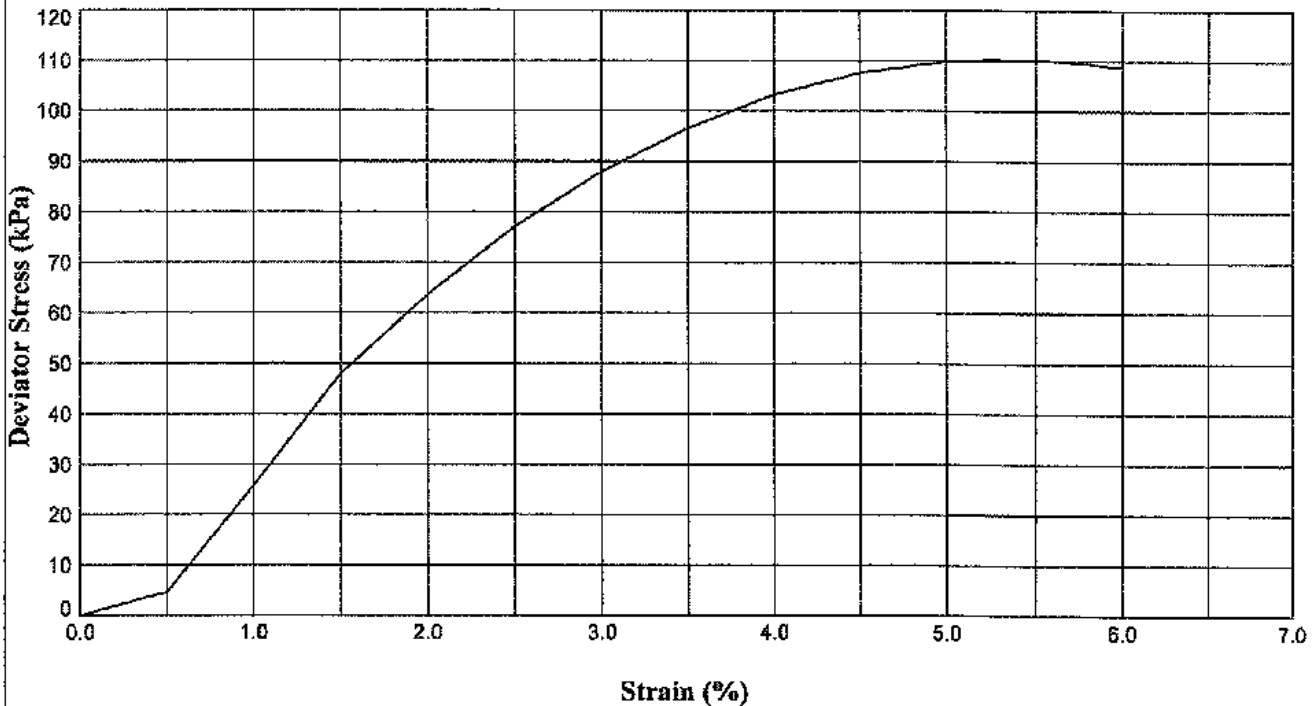
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH39** Sample Ref: **16** Sample Type: **P** Depth (m): **6.75**

Description : **Grey CLAY with occasional fibrous organic matter**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	100.67		
	Height (mm)	200.00		
	Moisture Content (%)	100		
	Bulk Density (Mg/m ³)	1.36		
	Dry Density (Mg/m ³)	0.68		
TEST DETAILS	Membrane Thickness (mm)	0.34		
	Rate of Axial Displacement (%/min)	1.25		
	Cell Pressure (kPa)	100		
	Membrane Correction (kPa)	0.47		
	Corrected Deviator Stress (kPa)	110		
	Undrained Shear Strength (kPa)	55		
	Strain at Failure (%)	5.2		
	Mode of Failure	Compound		



Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	13/02/09	[Redacted]	13/09
Contract		Job No	
Sizewell C Supplementary Investigation		722201	

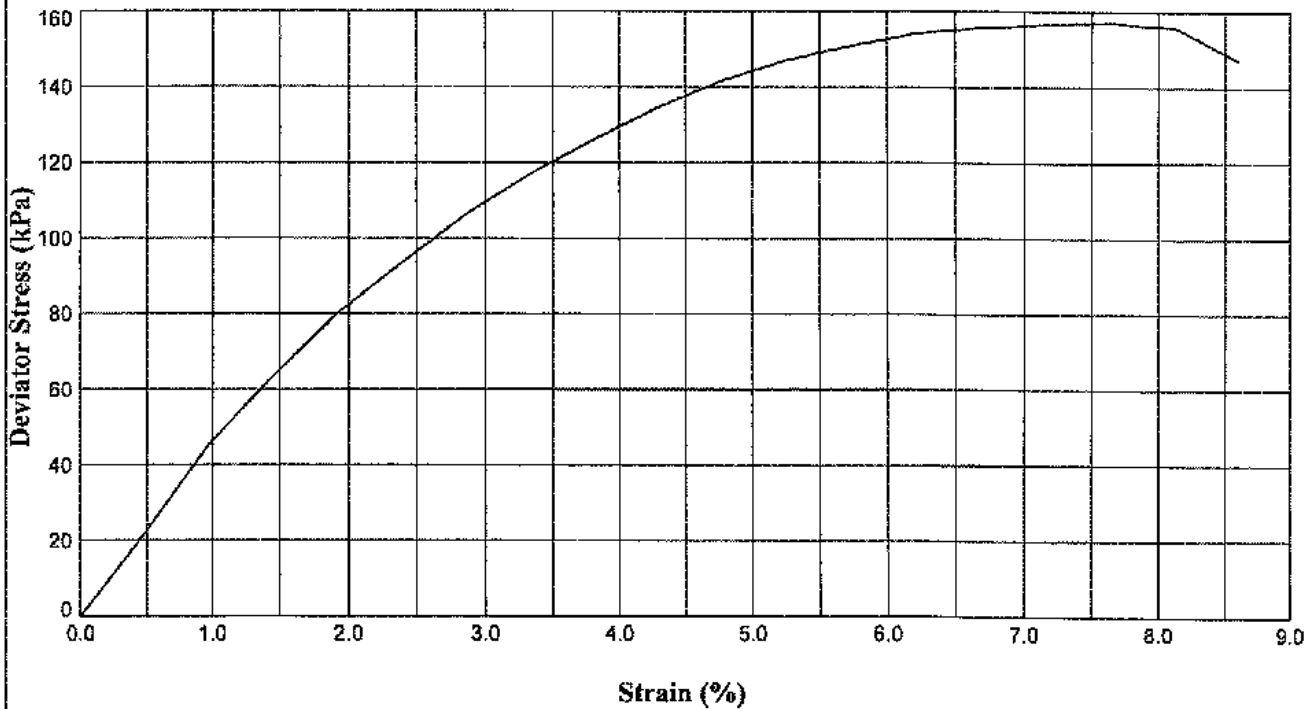
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH39** Sample Ref: **17** Sample Type: **P** Depth (m): **7.43**

Description : **Dark brown fibrous PEAT**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	99.53		
	Height (mm)	209.00		
	Moisture Content (%)	303		
	Bulk Density (Mg/m ³)	1.10		
	Dry Density (Mg/m ³)	0.27		
TEST DETAILS	Membrane Thickness (mm)	0.30		
	Rate of Axial Displacement (%/min)	1.20		
	Cell Pressure (kPa)	100		
	Membrane Correction (kPa)	0.56		
	Corrected Deviator Stress (kPa)	156		
	Undrained Shear Strength (kPa)	78		
	Strain at Failure (%)	7.7		
	Mode of Failure	Brittle		



Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	13/02/09	[Redacted]	26/3/09
Contract		Job No	
Sizewell C Supplementary Investigation		722201	

STRUCTURAL_SOILS_GINT_LIBRARY_GLB1 - TRIAXIAL TEST - BS VERSION | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 13/02/09 - 14:16

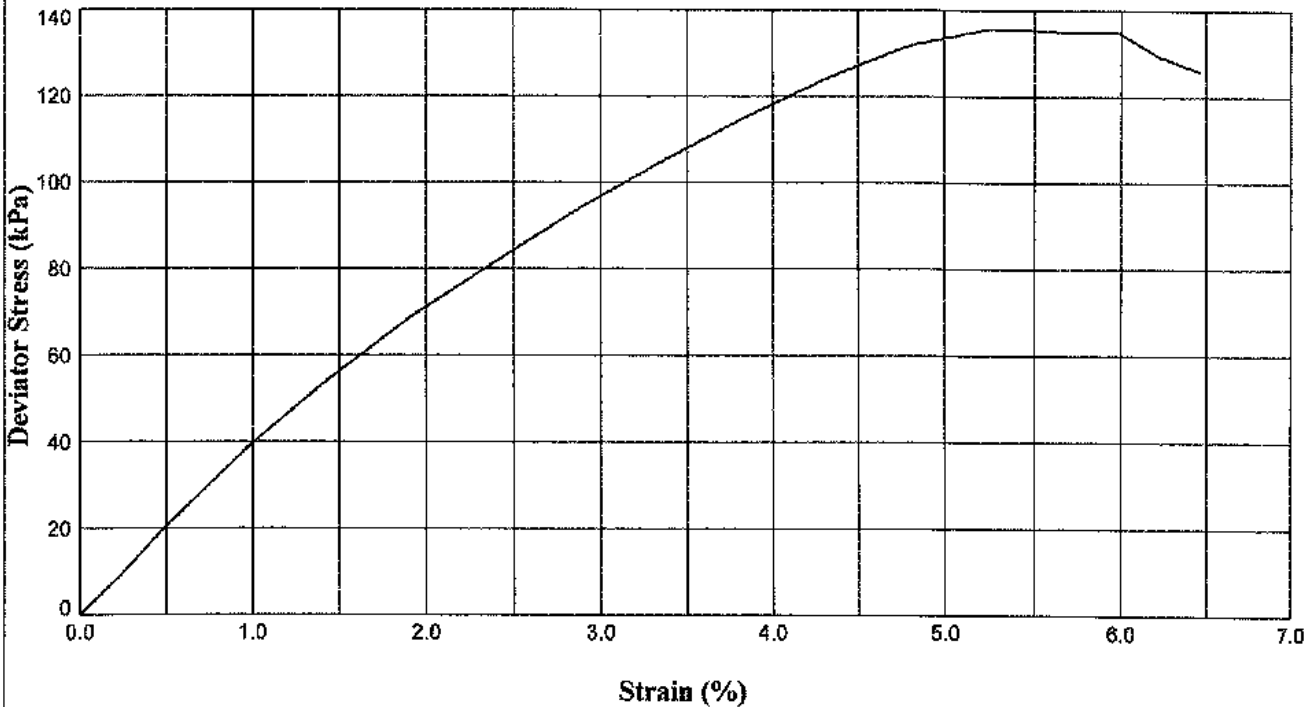
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH39** Sample Ref: **20** Sample Type: **P** Depth (m): **8.80**

Description : **Black amorphous PEAT**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	100.67		
	Height (mm)	209.00		
	Moisture Content (%)	252		
	Bulk Density (Mg/m ³)	1.17		
	Dry Density (Mg/m ³)	0.33		
TEST DETAILS	Membrane Thickness (mm)	0.30		
	Rate of Axial Displacement (%/min)	1.20		
	Cell Pressure (kPa)	150		
	Membrane Correction (kPa)	0.42		
	Corrected Deviator Stress (kPa)	135		
	Undrained Shear Strength (kPa)	68		
	Strain at Failure (%)	5.3		
	Mode of Failure	Compound		



Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By		Date	Checked By	Date
		13/02/09		13/09
Sizewell C Supplementary Investigation			722201	

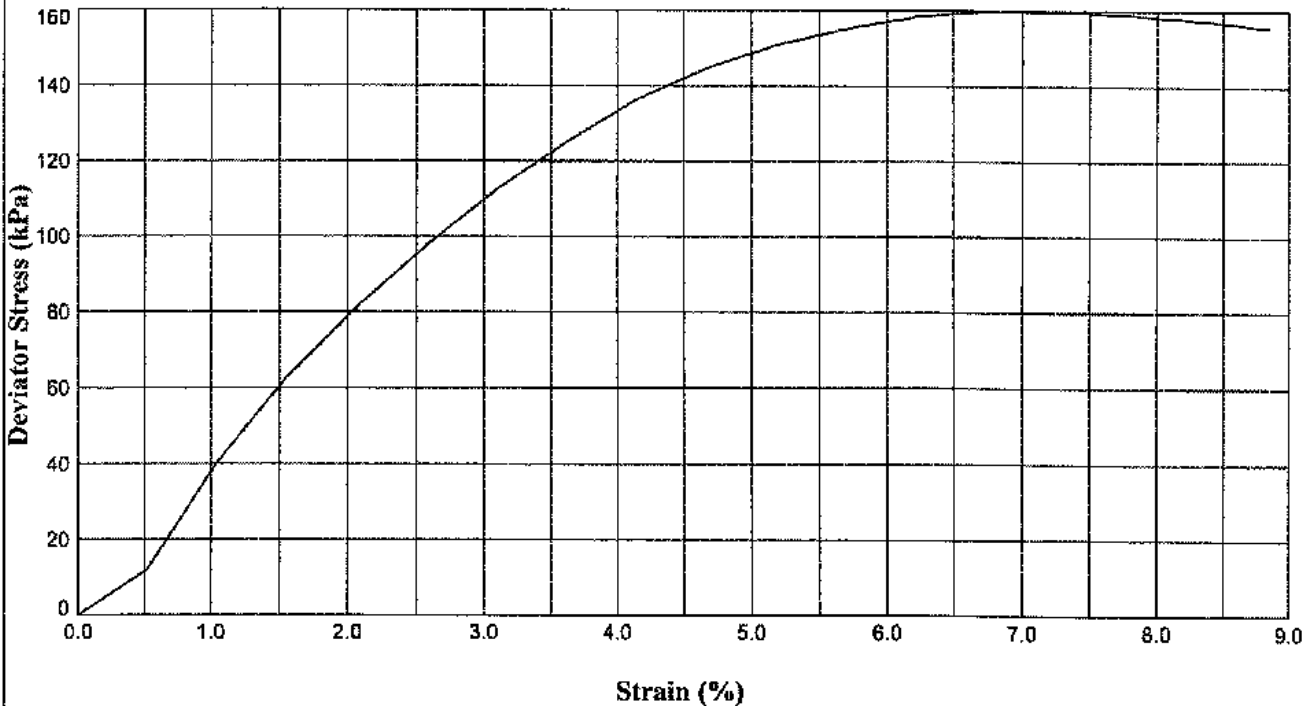
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH40** Sample Ref: **20** Sample Type: **P** Depth (m): **7.53**

Description : **Dark brown fibrous PEAT**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	100.63		
	Height (mm)	192.17		
	Moisture Content (%)	215		
	Bulk Density (Mg/m ³)	1.12		
	Dry Density (Mg/m ³)	0.36		
TEST DETAILS	Membrane Thickness (mm)	0.31		
	Rate of Axial Displacement (%/min)	1.30		
	Cell Pressure (kPa)	125		
	Membrane Correction (kPa)	0.52		
	Corrected Deviator Stress (kPa)	159		
	Undrained Shear Strength (kPa)	80		
	Strain at Failure (%)	6.8		
	Mode of Failure	Brittle		



Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	13/02/09	[Redacted]	16/3/09
Contract		Job No	
Sizewell C Supplementary Investigation		722201	

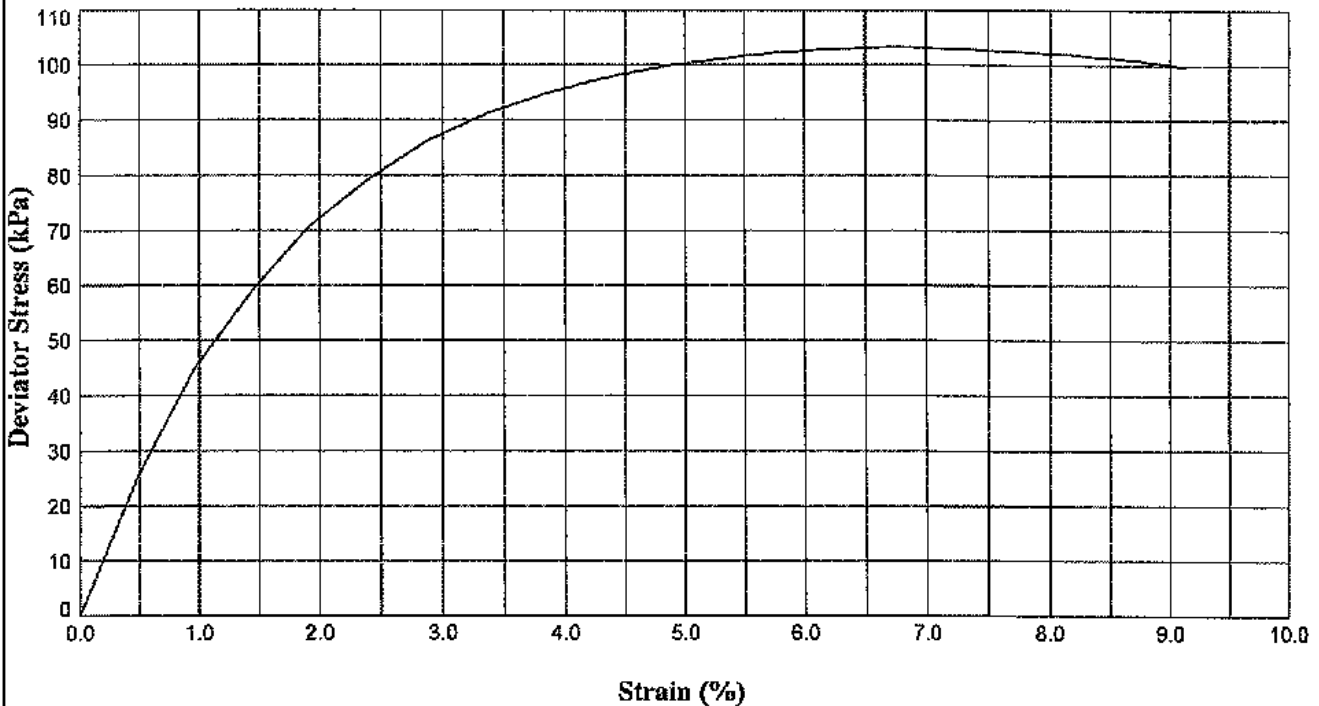
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH40** Sample Ref: **20** Sample Type: **P** Depth (m): **7.92**

Description : **Grey CLAY with occasional fibrous organic matter**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	100.42		
	Height (mm)	208.00		
	Moisture Content (%)	68		
	Bulk Density (Mg/m ³)	1.55		
	Dry Density (Mg/m ³)	0.92		
TEST DETAILS	Membrane Thickness (mm)	0.30		
	Rate of Axial Displacement (%/min)	1.20		
	Cell Pressure (kPa)	125		
	Membrane Correction (kPa)	0.50		
	Corrected Deviator Stress (kPa)	103		
	Undrained Shear Strength (kPa)	51		
	Strain at Failure (%)	6.7		
	Mode of Failure	Compound		



Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By: [Redacted]
Date: 13/02/09
Contract: **Sizewell C Supplementary Investigation**

Checked By: [Redacted]
Date: 13/02/09
Job No: **722201**



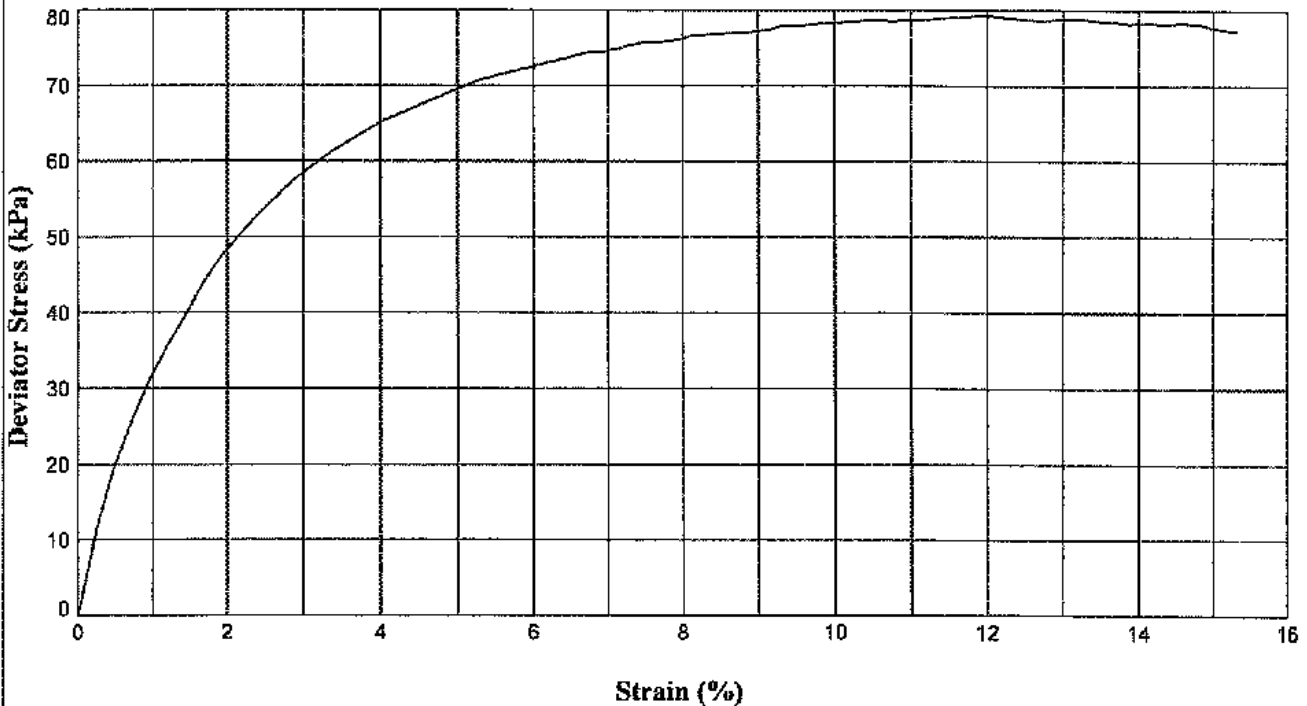
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAXIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH40** Sample Ref: **22** Sample Type: **P** Depth (m): **9.37**

Description : **Dark brown fibrous PEAT with pockets of grey clay**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	101.43		
	Height (mm)	209.00		
	Moisture Content (%)	174		
	Bulk Density (Mg/m ³)	1.19		
	Dry Density (Mg/m ³)	0.43		
TEST DETAILS	Membrane Thickness (mm)	0.31		
	Rate of Axial Displacement (%/min)	0.96		
	Cell Pressure (kPa)	150		
	Membrane Correction (kPa)	0.80		
	Corrected Deviator Stress (kPa)	78		
	Undrained Shear Strength (kPa)	39		
	Strain at Failure (%)	12.0		
	Mode of Failure	Compound		



Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By		Date	Checked By	Date
		13/02/0		6/3/09
Sizewell C Supplementary Investigation			Job No 722201	

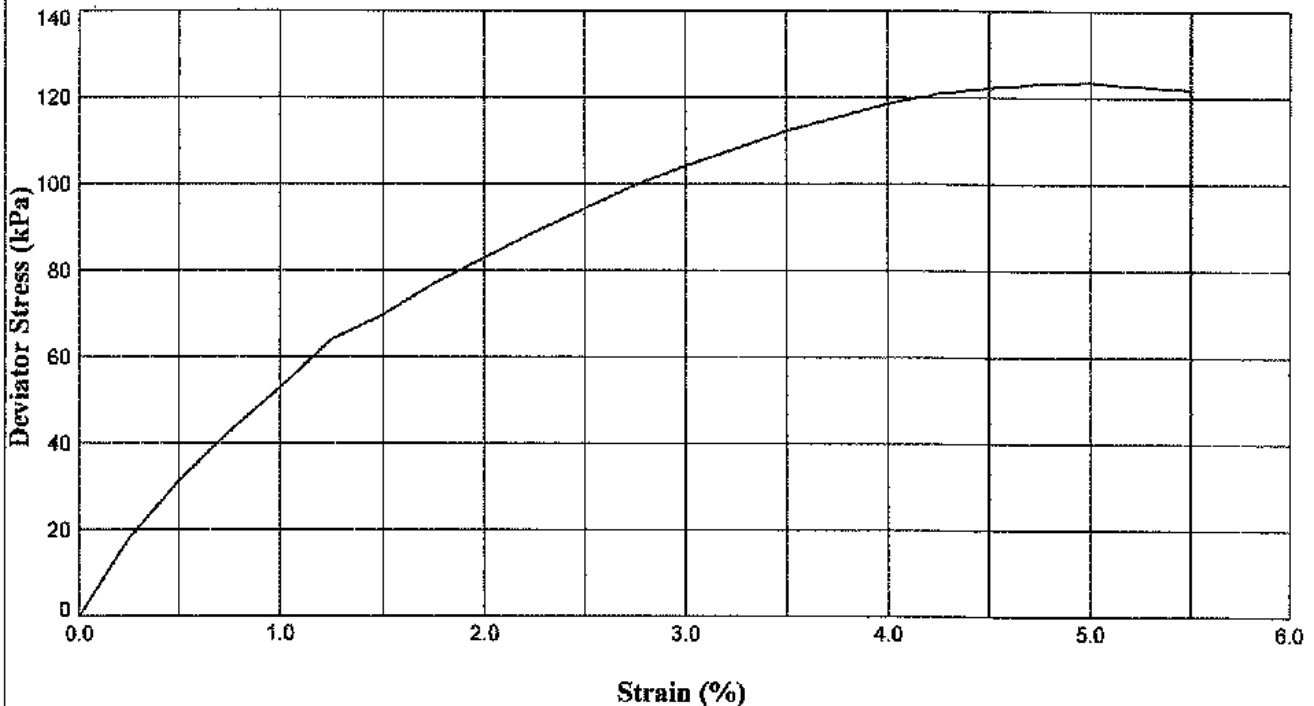
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH40** Sample Ref: **22** Sample Type: **P** Depth (m): **10.00**

Description : **Black amorphous PEAT**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	98.10		
	Height (mm)	199.67		
	Moisture Content (%)	171		
	Bulk Density (Mg/m ³)	1.19		
	Dry Density (Mg/m ³)	0.44		
TEST DETAILS	Membrane Thickness (mm)	0.31		
	Rate of Axial Displacement (%/min)	1.00		
	Cell Pressure (kPa)	150		
	Membrane Correction (kPa)	0.41		
	Corrected Deviator Stress (kPa)	123		
	Undrained Shear Strength (kPa)	61		
	Strain at Failure (%)	4.8		
	Mode of Failure	Brittle		



Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	[Redacted]	Date	13/02/09	Checked By	Date
Contract	Sizewell C Supplementary Investigation		722201		6/3/09

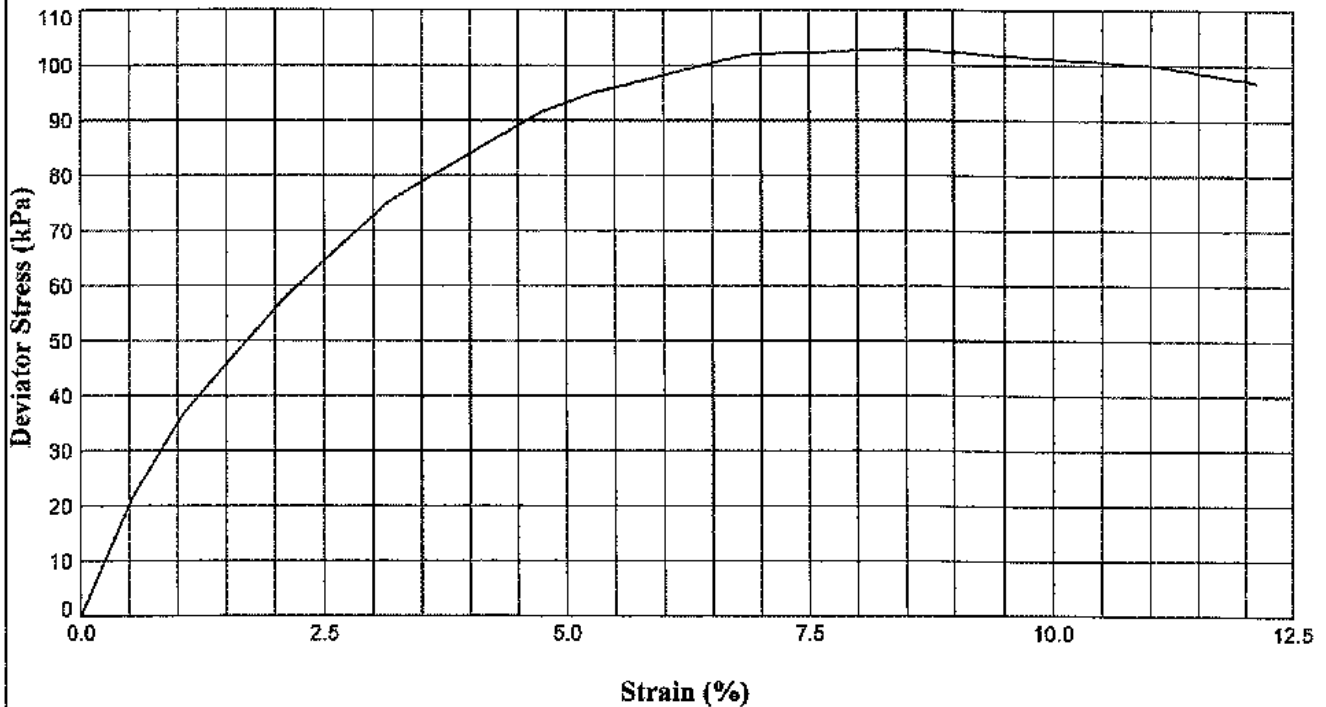
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAXIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH40** Sample Ref: **23** Sample Type: **P** Depth (m): **10.30**

Description : **Dark brown fibrous PEAT**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	38.00		
	Height (mm)	76.00		
	Moisture Content (%)	152		
	Bulk Density (Mg/m ³)	1.13		
	Dry Density (Mg/m ³)	0.45		
TEST DETAILS	Membrane Thickness (mm)	0.28		
	Rate of Axial Displacement (%/min)	1.32		
	Cell Pressure (kPa)	150		
	Membrane Correction (kPa)	1.48		
	Corrected Deviator Stress (kPa)	102		
	Undrained Shear Strength (kPa)	51		
	Strain at Failure (%)	8.4		
	Mode of Failure	Compound		



Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

	Contract	Date	Checked By	Date
	Sizewell C Supplementary Investigation	13/02/09	[Redacted]	13/02/09
			JOB NO	
			722201	



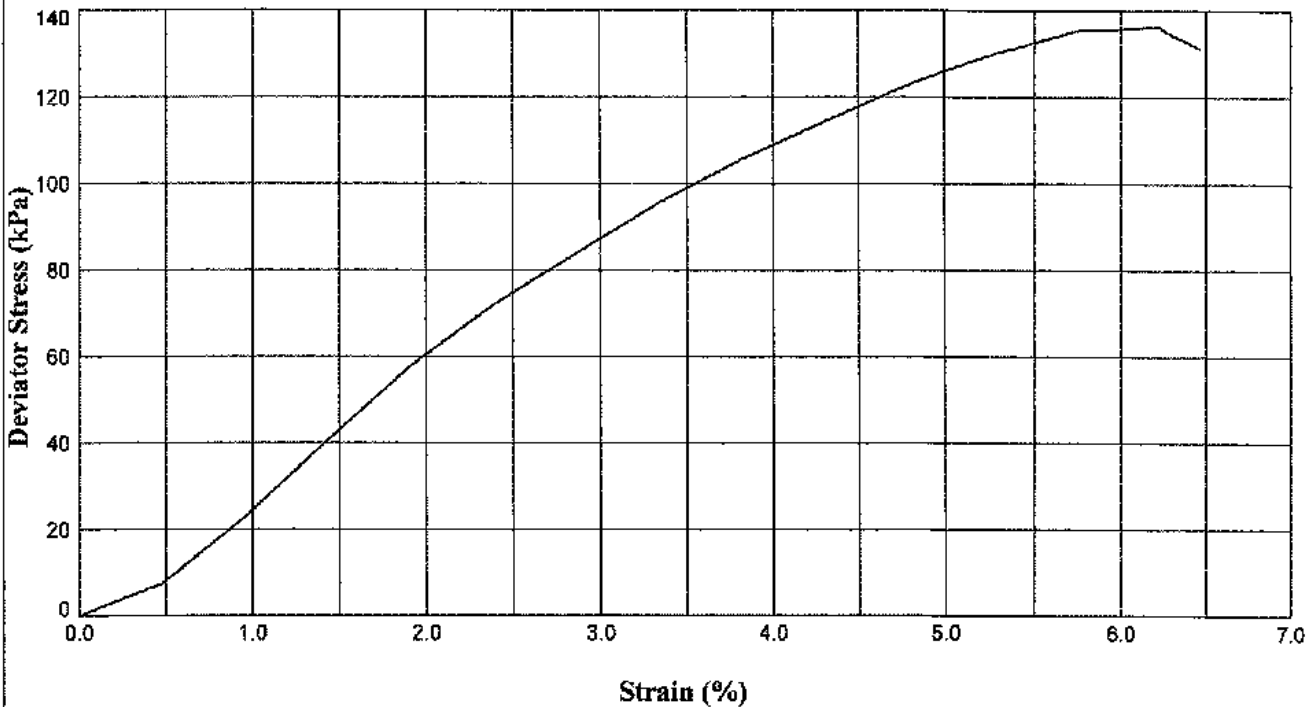
UNCONSOLIDATED QUICK UNDRAINED (SINGLE STAGE) TRIAxIAL COMPRESSION TEST

In accordance with BS1377:Part 7:1990, Clause 8

Borehole : **BH40** Sample Ref: **23** Sample Type: **P** Depth (m): **10.80**

Description : **Dark brown fibrous PEAT**

STAGE NUMBER		1	2	3
SAMPLE DETAILS	Sample Condition	Undisturbed		
	Orientation of sample	Vertical		
	Diameter (mm)	99.35		
	Height (mm)	209.00		
	Moisture Content (%)	238		
	Bulk Density (Mg/m ³)	1.13		
	Dry Density (Mg/m ³)	0.34		
TEST DETAILS	Membrane Thickness (mm)	0.33		
	Rate of Axial Displacement (%/min)	1.20		
	Cell Pressure (kPa)	175		
	Membrane Correction (kPa)	0.53		
	Corrected Deviator Stress (kPa)	136		
	Undrained Shear Strength (kPa)	68		
	Strain at Failure (%)	6.2		
	Mode of Failure	Compound		



Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	13/02/09	[REDACTED]	13/09
Contract		722201	
Sizewell C Supplementary Investigation		722201	

SUMMARY OF CHEMICAL ANALYSES

In accordance with clauses 4, 9 of BS1377:Part 3:1990 where applicable.

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Aqueous Extract Sulphate (g/l SO ₄)	pH	Loss on Ignition (%)	Organic Matter Content (%)	% passing 2mm sieve	Description
B111	4	D	2.70	0.06	8.6			80	Grey silty gravelly SAND
BH1	6	D	4.30				2.6	80	Grey slightly gravelly CLAY
BH1	10	D	7.55				20	100	Grey CLAY with occasional fibrous organic matter
BH2	6	D	4.70	0.07	9.0			70	Grey very gravelly SAND
BF3	13	D	5.00	0.02	8.6			20	Brown silty sandy GRAVEL
BH3	21	D	7.60			65	>25	100	Dark brown fibrous PEAT
BH4	8	D	5.75				24	100	Grey slightly sandy CLAY with much fibrous organic matter
BH4	10	D	7.15			30	>25	100	Brownish grey CLAY with much fibrous organic matter

NOTES:- All chemical tests were undertaken by an external laboratory.

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By

Date

Checked By

Date

Contract Ref:

05.03.09

6/3/09

722201

Sizewell C Supplementary Investigation





SUMMARY OF CHEMICAL ANALYSES

In accordance with clauses 4, 9 of BS1377:Part 3:1990 where applicable.

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Aqueous Extract Sulphate (g/l SO ₄)	pH	Loss on Ignition (%)	Organic Matter Content (%)	% passing 2mm sieve	Description
BH4	11	D	7.85			29	>25	100	Brownish grey CLAY with much fibrous organic matter
BH4	12	D	8.55				6.2	100	Grey CLAY
BH5	12	D	7.80				25	100	Grey CLAY with some fibrous organic matter
BH6	18	D	6.00				6.5	100	Grey mottled brown CLAY with occasional fibrous organic matter
BH6	22	D	7.00			69	>25	100	Dark brown fibrous PEAT
BH7	14	P	4.80				11	100	Grey organic CLAY
BH7	15	P	5.90			62	>25	100	Dark brown fibrous PEAT
BH7	16	P	6.90			68	>25	100	Dark brown fibrous PEAT

NOTES:- All chemical tests were undertaken by an external laboratory.

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref:
	Contract:	05.03.09	6/3/09		722201
Sizewell C Supplementary Investigation					
					


SUMMARY OF CHEMICAL ANALYSES

In accordance with clauses 4, 9 of BS1377:Part 3:1990 where applicable.

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Aqueous Extract Sulphate (g/l SO ₄)	pH	Loss on Ignition (%)	Organic Matter Content (%)	% passing 2mm sieve	Description
BH7	16	P	7.60			64	>25	100	Dark brown fibrous PEAT
BH7	17	P	8.22			84	>25	100	Dark brown fibrous PEAT
BH8	4	D	2.70	0.04	8.9			70	Greyish brown silty very gravelly SAND
BH9	3	D	1.70	0.39	11.1			100	Orangish brown slightly silty SAND
BH9	8	D	5.35				14	100	Grey organic CLAY
BH9	9	D	6.05				5.3	100	Grey CLAY
BH9	11	D	7.45			36	>25	100	Dark brown fibrous PEAT
BH10A	5	D	1.95	0.11	8.7			100	Orangish brown silty SAND

NOTES:- All chemical tests were undertaken by an external laboratory.

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

	STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By [REDACTED]	Date 05.03.09	Checked By [REDACTED]	Date 6/3/09	Contract Ref: <h2 style="text-align: center;">722201</h2>
	Sizewell C Supplementary Investigation					





SUMMARY OF CHEMICAL ANALYSES

In accordance with clauses 4, 9 of BS1377:Part 3:1990 where applicable.

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Aqueous Extract Sulphate (g/l SO ₄)	pH	Loss on Ignition (%)	Organic Matter Content (%)	% passing 2mm sieve	Description
BH10A	15	D	5.00				23	100	Grey mottled brown CLAY with some fibrous organic matter
BH10A	25	D	7.50			74	>25	100	Dark brown fibrous PEAT
BH11	12	D	4.70				6.0	100	Grey CLAY
BH11	18	D	6.50			30	>25	100	Dark brown fibrous PEAT
BH11	22	D	7.70				22	100	Brownish grey CLAY with some fibrous organic matter
BH12	8	D	3.00	0.08	8.6			70	Brown mottled grey very gravelly SAND
BH12	18	D	6.70				14	100	Grey CLAY with some fibrous organic matter
BH12	20	D	7.30				21	100	Grey CLAY with some fibrous organic matter

NOTES:- All chemical tests were undertaken by an external laboratory.

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref:
	[Redacted]	05.03.09	[Redacted]	6/3/09	722201
Sizewell C Supplementary Investigation					



SUMMARY OF CHEMICAL ANALYSES

In accordance with clauses 4, 9 of BS1377:Part 3:1990 where applicable.

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Aqueous Extract Sulphate (g/l SO ₄)	pH	Loss on Ignition (%)	Organic Matter Content (%)	% passing 2mm sieve	Description
BH13A	3	D	2.00	0.09	9.4			94	Orangish brown mottled brown gravelly silty SAND
BH13A	12	D	5.70				11	100	Grey CLAY with occasional fibrous organic matter
BH13A	22	D	9.30			65	>25	100	Dark brown fibrous PEAT
BH14	6	D	2.00	0.04	8.6			98	Orangish brown slightly gravelly silty SAND
BH14	17	D	6.60				14	100	Grey CLAY with some fibrous organic matter
BH14	21	D	7.80			61	>25	100	Dark brown fibrous PEAT
BH14	23	D	8.40			81	>25	100	Dark brown fibrous PEAT
BH16	3	D	1.95	0.05	8.7			95	Orangish brown slightly gravelly silty SAND

NOTES:- All chemical tests were undertaken by an external laboratory.

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Contract:	Date 05.03.09	Checked By [Redacted]	Date 6/3/09	Contract Ref: 722201
	Sizewell C Supplementary Investigation				



SUMMARY OF CHEMICAL ANALYSES

In accordance with clauses 4, 9 of BS1377:Part 3:1990 where applicable.

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Aqueous Extract Sulphate (g/l SO ₄)	pH	Loss on Ignition (%)	Organic Matter Content (%)	% passing 2mm sieve	Description
BH16	8	D	7.70			46	>25	100	Dark brown fibrous PEAT
BH16	10	D	9.20			74	>25	100	Dark brown fibrous PEAT
BH17	8	D	3.00	0.12	8.5			98	Orangish brown mottled grey slightly gravelly silty SAND
BH17	16	D	5.50				6.8	100	Grey CLAY
BH17	32	D	9.45			80	>25	100	Dark brown fibrous PEAT
BH19A	9	D	6.55				7.6	100	Grey CLAY with occasional fibrous organic matter
BH19A	12	D	8.65			82	>25	100	Dark brown fibrous PEAT
BH20	3	D	1.70	0.04	8.0			90	Brown mottled grey gravelly silty SAND

NOTES:- All chemical tests were undertaken by an external laboratory.

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref.
	Contract:	05.03.09	6/3/09	722201	
Sizewell C Supplementary Investigation					



SUMMARY OF CHEMICAL ANALYSES

In accordance with clauses 4, 9 of BS1377:Part 3:1990 where applicable.

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Aqueous Extract Sulphate (g/l SO ₄)	pH	Loss on Ignition (%)	Organic Matter Content (%)	% passing 2mm sieve	Description
BH20	8	D	5.15				8.9	100	Grey CLAY with occasional fibrous organic matter
BH21	8	D	5.85				7.8	100	Grey CLAY with occasional fibrous organic matter
BH21	12	D	8.65			43	>25	100	Dark brown fibrous PEAT
BH22	8	D	3.00	0.20	9.5			100	Orangish brown mottled grey silty SAND
BH22	18	D	6.60				13	100	Grey CLAY with occasional fibrous organic matter
BH23	8	D	6.40				8.1	100	Grey CLAY with occasional fibrous organic matter
BH24	12	D	8.70			71	>25	100	Dark brown fibrous PEAT
BH25	5	D	1.95	0.09	8.5			96	Orangish brown slightly gravelly silty SAND

NOTES:- All chemical tests were undertaken by an external laboratory.

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref:
	[REDACTED]	05.03.09	[REDACTED]	5/3/09	722201
Sizewell C Supplementary Investigation					



SUMMARY OF CHEMICAL ANALYSES

In accordance with clauses 4, 9 of BS1377:Part 3:1990 where applicable.

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Aqueous Extract Sulphate (g/l SO ₄)	pH	Loss on Ignition (%)	Organic Matter Content (%)	% passing 2mm sieve	Description
BH25	18	D	6.50				6.5	100	Grey CLAY with occasional fibrous organic matter
BH25	24	D	8.00			63	>25	100	Dark brown fibrous PEAT
BH26	3	D	1.70	0.03	8.0			100	Brown slightly clayey SAND
BH28	4	D	2.70	0.17	8.3			90	Dark grey gravelly silty SAND
BH28	7	D	4.65			63	>25	100	Dark brown fibrous PEAT
BH29A	9	D	7.10				7.4	100	Grey CLAY with occasional fibrous organic matter
BH30	3	D	1.70	0.03	8.7			85	Brown slightly clayey gravelly SAND
BH32A	4	D	2.70	0.04	7.8			70	Brown silty very gravelly SAND

NOTES:- All chemical tests were undertaken by an external laboratory.

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref:
	[REDACTED]	05.03.09	[REDACTED]	5/3/09	722201
Contract: Sizewell C Supplementary Investigation					



SUMMARY OF CHEMICAL ANALYSES

In accordance with clauses 4, 9 of BS1377:Part 3:1990 where applicable.

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Aqueous Extract Sulphate (g/l SO ₄)	pH	Loss on Ignition (%)	Organic Matter Content (%)	% passing 2mm sieve	Description
BH33	4	D	2.70	0.04	8.5			90	Orangish brown slightly silty gravelly SAND
BH36	3	D	1.00	0.22	9.8			100	Orangish brown silty SAND
BH36	7	P	2.00				6.2	100	Grey CLAY with occasional fibrous organic matter
BH36	8	P	3.00				20	100	Dark brown fibrous PEAT with pockets of grey clay
BH36	8	P	3.10			47	>25	100	Dark brown fibrous PEAT
BH36	9	P	4.00			60	>25	100	Dark brown fibrous PEAT
BH36	10	P	5.00			45	>25	100	Dark brown fibrous PEAT
BH36	10	P	5.70			72	>25	100	Dark brown fibrous PEAT

NOTES:- All chemical tests were undertaken by an external laboratory.

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref: 722201
	Contract:	05.03.09	[Redacted]	C.13/07	
Sizewell C Supplementary Investigation					



SUMMARY OF CHEMICAL ANALYSES

In accordance with clauses 4, 9 of BS1377:Part 3:1990 where applicable.

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Aqueous Extract Sulphate (g/l SO ₄)	pH	Loss on Ignition (%)	Organic Matter Content (%)	% passing 2mm sieve	Description
BH36	21	P	7.73			64	>25	100	Dark brown fibrous PEAT
BH38	6	D	2.00	0.04	8.9			90	Orangish brown gravelly SAND
BH38	17	U	6.00			77	>25	100	Dark brown fibrous PEAT
BH38	21	U	7.00				22	100	Black amorphous PEAT
BH38	23	U	7.50				8.8	100	Black sandy amorphous PEAT
BH39	6	D	2.00	0.05	8.3			98	Orangish brown mottled greenish grey slightly gravelly silty SAND
BH39	16	P	6.00				8.6	100	Grey CLAY with some fibrous organic matter
BH39	16	P	6.55			65	>25	100	Dark brown fibrous PEAT

NOTES:- All chemical tests were undertaken by an external laboratory.

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date	Contract Ref:
	Contract:	05.03.09		6/3/09	722201
Sizewell C Supplementary Investigation					


SUMMARY OF CHEMICAL ANALYSES

In accordance with clauses 4, 9 of BS1377:Part 3:1990 where applicable.

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Aqueous Extract Sulphate (g/l SO ₄)	pH	Loss on Ignition (%)	Organic Matter Content (%)	% passing 2mm sieve	Description
BH39	16	P	6.96				10	100	Grey CLAY with occasional fibrous organic matter
BH39	17	P	7.41			80	>25	100	Black fibrous PEAT
BH39	17	P	7.70			76	>25	100	Black fibrous PEAT
BH39	20	P	8.50			71	>25	100	Black fibrous PEAT
BH40	8	D	3.00	0.02	8.6			85	Orangish brown silty gravelly SAND
BH40	20	P	7.50			43	>25	100	Dark brown fibrous PEAT
BH40	20	P	7.70			52	>25	100	Dark brown fibrous PEAT
BH40	21	P	9.35			30	>25	100	Dark brown fibrous PEAT

NOTES:- All chemical tests were undertaken by an external laboratory.

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN

 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Date 05.03.09	Checked By [Redacted]	Date 6/3/09	Contract Ref: 722201
	Sizewell C Supplementary Investigation			




SUMMARY OF CHEMICAL ANALYSES

In accordance with clauses 4, 9 of BS1377:Part 3:1990 where applicable.

Exploratory Position ID	Sample Ref	Sample Type	Depth (m)	Aqueous Extract Sulphate (g/l SO ₄)	pH	Loss on Ignition (%)	Organic Matter Content (%)	% passing 2mm sieve	Description
BH40	22	P	10.20			43	>25	100	Dark brown fibrous PEAT
BH40	23	P	10.25				14	100	Grey CLAY with occasional fibrous organic matter
BH40	23	P	10.97			71	>25	100	Dark brown fibrous PEAT
BH40	24	P	11.50				13	100	Black amorphous PEAT

NOTES:- All chemical tests were undertaken by an external laboratory.

Approved Signatories: D. TROWBRIDGE A. FROST F. HAMILTON L. MARTIN



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	05.03.09	[REDACTED]	6/3/09
Contract: Sizewell C Supplementary Investigation			

Contract Ref:
722201



APPENDIX D

(i) Environmental Test Results

Date: 12 November 2008
Your Ref: 722201
Our Ref: 722201-(5281)-012
Project Manager: Steve Mackereth
Report to: John Wild

Envirolab
Units 7 & 8
Sandpits Business Park
Moltram Road
Hyde
Cheshire
SK14 3AR

Re-Issue of Final Test Report 722201-(5281)-011

Sample(s) of Soil from Sizewell C.
Received from Structural Soils Ltd
The Old School House, Stillhouse Lane, Bedminster, Bristol, BS3 4EB

Date of receipt: 15 October 2008
Date analysis commenced: 15 October 2008
Date analysis completed: 03 November 2008

Method Statement

Speciated TPH analysis is performed in accordance with procedures A-T-022 using GC-MS with Head Space & A-T-023 using GC-FID.

PCB analysis is performed in accordance with procedures A-T-004 and A-T-005.

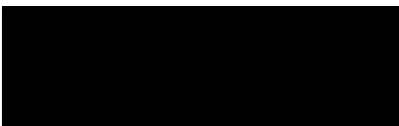
PAH analysis is performed in accordance with procedure A-T-019.

Loss on drying analysis is performed in accordance with procedure A-T-020.

Subcontract analysis was submitted to a laboratory on Envirolab's approved vendors list.

A copy of the report is attached, UKAS/MCERTS status is detailed on the report.

Prepared by:



Thi McNabb
Reporting Analytical Chemist

Approved by:



Louise Adams
Associate Director - Operations



Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
Tests marked "" in this report are not included in the UKAS Accreditation Schedule for Envirolab.
Analytical results reflect the quality of the sample at the time of analysis only.



Envirolab Ref.	PROCEDURE	ISO17025	INCERT'S	93483	93486	93487							
Location				BH4	BH4	BH4							
Depth (m)				WC1	WC2	WC3							
Sample Ref				9.50	9.00	7.00							
Sample Type				Dx3	Dx3	Dx3							
MTBE _R	A-T-022	Y	N	<0.01	<0.01	<0.01							
Benzene _R	A-T-022	Y	N	<0.01	<0.01	<0.01							
Toluene _R	A-T-022	Y	N	0.01	0.01	<0.01							
Ethyl Benzene _R	A-T-022	Y	N	<0.01	<0.01	<0.01							
m & p Xylene _R	A-T-022	Y	N	<0.01	<0.01	<0.01							
o Xylene _R	A-T-022	Y	N	<0.01	<0.01	<0.01							
Aliphatics C3-C5 _R	A-T-022	Y	N	<0.01	<0.01	<0.01							
Aliphatics >C5-C6 _R	A-T-022	Y	N	<0.01	<0.01	<0.01							
Aliphatics >C6-C10 _R	A-T-022	Y	N	<0.01	<0.01	<0.01							
Aliphatics >C10-C12 _R	A-T-023	Y	N	<0.1	<0.1	3.2							
Aliphatics >C12-C16 _R	A-T-023	Y	N	<0.1	<0.1	6.3							
Aliphatics >C16-C21 _R	A-T-023	Y	N	<0.1	<0.1	14.8							
Aliphatics >C21-C35 _R	A-T-023	Y	N	<0.1	<0.1	12.7							
Total Aliphatics		Y	N	<0.1	<0.1	37.00							
Aromatics >C5-C7 _R	A-T-022	Y	N	<0.01	<0.01	<0.01							
Aromatics >C7-C8 _R	A-T-022	Y	N	<0.01	<0.01	<0.01							
Aromatics >C8-C9 _R	A-T-022	Y	N	<0.01	<0.01	<0.01							
Aromatics >C9-C10 _R	A-T-022	Y	N	<0.01	<0.01	<0.01							
Aromatics >C10-C12 _R	A-T-023	Y	N	<0.1	<0.1	<0.1							
Aromatics >C12-C16 _R	A-T-023	Y	N	<0.1	<0.1	<0.1							
Aromatics >C16-C21 _R	A-T-023	Y	N	<0.1	<0.1	<0.1							
Aromatics >C21-C35 _R	A-T-023	Y	N	<0.1	<0.1	<0.1							
Total Aromatics		Y	N	<0.1	<0.1	<0.1							
TPH (Aliphatics & Aromatics)		Y	N	<0.1	<0.1	37.00							

Table 1 - Soil Speciated TPH Results (mg/kg)

Envirolab Ref.	PROCEDURE	ISO17025	MCERTS	93483	93485	93487							
Location				BH4	BH4	BH4							
Depth (m)				WC1	WC2	WC3							
Sample Ref				8.50	9.00	7.00							
Sample Type				Dx3	Dx3	Dx3							
PCB BZ 28 _p	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005							
PCB BZ 52 _p	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005							
PCB BZ 101 _p	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005							
PCB BZ 118 _p	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005							
PCB BZ 138 _p	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005							
PCB BZ 153 _p	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005							
PCB BZ 180 _p	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005							

Table 2 - Soil PCB Results (mg/kg, expressed on a dry weight basis)

Envirolab Ref.	PROCEDURE	ISO17025	INCERTS	93483	93485	93487							
Location				BH4	BH4	BH4							
Depth (m)				WC1	WC2	WC3							
Sample Ref				9.50	9.00	7.00							
Sample Type				Dx3	Dx3	Dx3							
Naphthalene _n	A-T-019	Y	N	0.16	0.05	0.03							
Acenaphthylene _n	A-T-019	Y	N	<0.01	<0.01	<0.01							
Acenaphthene _n	A-T-019	Y	N	0.03	0.01	<0.01							
Fluorene _n	A-T-019	Y	N	0.07	0.05	0.01							
Phenanthrene _n	A-T-019	Y	N	0.40	0.41	0.25							
Anthracene _n	A-T-019	Y	N	0.04	0.05	0.05							
Fluoranthene _n	A-T-019	Y	N	0.07	0.16	0.27							
Pyrene _n	A-T-019	Y	N	0.01	0.09	0.20							
Benzo [a] anthracene _n	A-T-019	Y	N	<0.01	<0.01	0.16							
Chrysene _n	A-T-019	Y	N	0.05	0.04	0.29							
Benzo [b] fluoranthene _n Benzo [k] fluoranthene _n	A-T-019	Y	N	0.09	0.01	0.31							
Benzo [a] pyrene _n	A-T-019	Y	N	0.08	0.03	0.15							
Indeno [123-cd] pyrene _n	A-T-019	Y	N	<0.01	<0.01	0.01							
Dibenz [ah] anthracene _n	A-T-019	Y	N	<0.01	<0.01	<0.01							
Benzo [ghi] perylene _n	A-T-019	Y	N	<0.01	<0.01	0.01							
Total 16 PAH Reported		Y	N	1.00	0.90	1.74							

Due to coelution Benzo [b] fluoranthene and Benzo [k] fluoranthene are reported as one value.

Table 3 - Soil PAH Results (mg/kg, expressed on a dry weight basis)

EnviroLab Ref.	93483	93485	93487							
Location	BH4	BH4	BH4							
Depth (m)	WC1	WC2	WC3							
Sample Ref	9.50	9.00	7.00							
Sample Type	Dx3	Dx3	Dx3							
Type	Loam	Clay	Loam							
Colour	Black	Grey Brown	Dark Brown							
Consistency	Loose	Firm	Loose							
Some Stones	Yes	Yes	Yes							
>50 Stones	No	No	No							
Some Vegetation	Yes	No	Yes							
Very Wet	No	No	No							
Strong Odour	No	No	No							

Table 4 - Soil Matrix Table

Appendix

Code	Description
* </td <td style="text-align: center;">Increased detection limit due to sample interference</td>	Increased detection limit due to sample interference
#	Increased detection limit due to sample dilution
\$	Analysis subcontracted
IS	Insufficient sample for analysis
IS-QC	Insufficient sample to retest following QC fail
NDP	No determination possible
~	Sample type outside the scope of our MCERTS accreditation since matrix not included in method validation
*	Analytes are associated with failed AQC targets for MCERTS, but passed UKAS AQC
A	Sample result is not covered under Envirolab's accreditation schedule for MCERTS as the result exceeds the validated range. See notes 1-3.
F	Analysis suffixed "F" were performed on the filtered sample
D	Analysis suffixed "D" were performed on the sample air dried at 30°C
O	Analysis suffixed "O" were performed on the sample oven dried at 95°C
R	Analysis suffixed "R" were performed on the sample as received. Where results are expressed on a dry weight basis, the samples were air dried at 95°C
Notes	
1	For MCERTS the validated range covers up to 15mg/kg for individual PAHs, 200mg/kg for totals.
2	For MCERTS the validated range covers up to 3000mg/kg for Total TPH analysis.
3	For MCERTS the validated range covers up to 0.2mg/kg for individual PCBs, and 1.5mg/kg for the total reported as aracor.
4	Natural stones and debris are excluded from analyses
5	Coarse granular material such as concrete, gravel and brick are not MCERTS accredited if they comprise the major part of the sample. Envirolab are currently accredited for MCERTS on soil types Sand, Clay and Loam only

**ALcontrol Laboratories Analytical Services
Sample Descriptions**

Job Number: 08/17618/02/01
Client: Envirolab
Client Ref : 722201-5281

Grain sizes
<0.063mm Very Fine
0.1mm - 0.063mm Fine
0.1mm - 2mm Medium
2mm - 10mm Coarse
>10mm Very Coarse

Sample Identity	Depth (m)	Colour	Grain Size	Description	Batch
93480 BH1	6.50	Black	0.1mm - 0.063mm	Clinker with some Vegetation	1

* These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials-whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.
Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

1 Sample Description supplied by client

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17618/02/01
Client: Envirolab
Client Ref. No.: 722201-5281

Matrix: SOLID
Location: SIZEWELL C
Client Contact: Subcon

Sample Identity	93480 BH1																		Method Code	Lob/Units
Depth (m)	6.50																			
Sample Type	SOLID																			
Sampled Date	10.10.08																			
Sample Received Date	22.10.08																			
Batch	1																			
Sample Number(s)	1																			
Arsenic	6																		TM129 ^g _M	<3.0 mg/kg
Cadmium	<0.2																		TM129	<0.2 mg/kg
Chromium	20																		TM129 ^g _M	<4.5 mg/kg
Copper	16																		TM129 ^g _M	<6 mg/kg
Lead	10																		TM129 ^g _M	<2 mg/kg
Mercury	<0.4																		TM129 ^g _M	<0.4 mg/kg
Nickel	22																		TM129 ^g _M	<0.9 mg/kg
Zinc	51																		TM129 ^g _M	<2.5 mg/kg
Total Alkalinity as CaCO ₃	400																		TM043	<10 mg/kg

All results expressed on a dry weight basis.

Date 12.11.2008

ALcontrol Laboratories Analytical Services

Table Of Results - Appendix

Job Number: 08/17618/02/01
Client: Envirolab
Client Ref. No.: 722201-5281

Report Key :

NDP	No Determination Possible	*	Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10 ⁻⁷
NFD	No Fibres Detected	»	Subcontracted test
#	ISO 17025 accredited	M	Result previously reported (Incremental reports only)
PFD	Possible Fibres Detected	EC	MCERTS Accredited
			Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control.

Summary of Method Codes contained within report :

Method No.	Reference	Description	ISO 17025 Accredited	MCERTS Accredited	Wet/Dry Sample ¹	Surrogate Corrected
TM043	Method 2320B, AWWA/APHA, 20th Ed., 1999 / BS 2690 Part109 1984	Determination of alkalinity in aqueous samples			WET	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer			DRY	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer	✓	✓	DRY	

¹ Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

ALcontrol Laboratories Analytical Services Sample Descriptions

Job Number: 08/17619/02/01
Client: Envirolab
Client Ref : 722201-5281

Grain sizes
 <0.063mm Very Fine
 0.1mm - 0.063mm Fine
 0.1mm - 2mm Medium
 2mm - 10mm Coarse
 >10mm Very Coarse

Sample Identity	Depth (m)	Colour	Grain Size	Description	Batch
93490 BH5	8.00	Black	<0.063mm	Clay	1
93493 BH17	10.50	Black	0.1mm - 0.063mm	Clay Loam	1
93496 BH25	8.00	Black	0.1mm - 0.063mm	Loam (topsoil) with some Vegetation	1

* These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials-whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.
 Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

¹ Sample Description supplied by client

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17619/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5281

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Subcon

Sample Identity	93490 BH5	93493 BH17	93496 BH25							Method Code	Lob/Units
Depth (m)	8.00	10.50	8.00								
Sample Type	SOLID	SOLID	SOLID								
Sampled Date	09.10.08	08.10.08	09.10.08								
Sample Received Date	22.10.08	22.10.08	22.10.08								
Batch	1	1	1								
Sample Number(s)	1	2	3								
Arsenic	38	96	18							TM129 ^M	<3.0 mg/kg
Cadmium	<0.2	0.6	<0.2							TM129	<0.2 mg/kg
Chromium	5.0	<4.5	6.6							TM129 ^M	<4.5 mg/kg
Copper	<6	<6	<6							TM129 ^M	<6 mg/kg
Lead	10	7	4							TM129 ^M	<2 mg/kg
Mercury	<0.4	<0.4	<0.4							TM129 ^M	<0.4 mg/kg
Nickel	7.6	36	7.0							TM129 ^M	<0.9 mg/kg
Zinc	25	150	22							TM129 ^M	<2.5 mg/kg
Total Alkalinity as CaCO3	<10	<10	61							TM043	<10 mg/kg

All results expressed on a dry weight basis.

Date 06.11.2008

ALcontrol Laboratories Analytical Services

Table Of Results - Appendix

Job Number: 08/17619/02/01
Client: Envirolab
Client Ref. No.: 722201-5281

Report Key :

NDP	No Determination Possible	*	Subcontracted test
NFD	No Fibres Detected	»	Result previously reported (Incremental reports only)
#	ISO 17025 accredited	M	MCERTS Accredited
PFD	Possible Fibres Detected	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control.

Summary of Method Codes contained within report :

Method No.	Reference	Description	ISO 17025 Accredited	MCERTS Accredited	Wet/Dry Sample ¹	Surrogate Corrected
TM043	Method 2320B, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part109 1984	Determination of alkalinity in aqueous samples			WET	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer			DRY	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer	✓	✓	DRY	

¹ Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17352/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5281

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93483 BH4 WC1	93485 BH4 WC2	93487 BH4 WC3							Method Code	Lab/Units
Depth (m)	9.5	9.00	7.0								
Sample Type	SOLID	SOLID	SOLID								
Sampled Date	10.10.08	10.10.08	10.10.08								
Sample Received Date	17.10.08	17.10.08	17.10.08								
Batch	1	1	1								
Sample Number(s)	1-5	6-10	11-15								
Total Sulphate	3400	1400	4800							TM129 ^M	<100 mg/kg
Boron Water Soluble	18	<3.5	45							TM129 ^M	<3.5 mg/kg
Arsenic	10	12	6							TM129 ^M	<3.0 mg/kg
Cadmium	<0.2	<0.2	<0.2							TM129	<0.2 mg/kg
Chromium	<4.5	30	17							TM129 ^M	<4.5 mg/kg
Copper	<6	14	10							TM129 ^M	<6 mg/kg
Lead	6	13	9							TM129 ^M	<2 mg/kg
Mercury	<0.4	<0.4	<0.4							TM129 ^M	<0.4 mg/kg
Nickel	2.4	27	16							TM129 ^M	<0.9 mg/kg
Selenium	<3	<3	<3							TM129 ^M	<3 mg/kg
Vanadium	3.2	56	33							TM129 ^M	<1.5 mg/kg
Zinc	10	72	35							TM129 ^M	<2.5 mg/kg
Phenols Monohydric	<0.15	<0.15	<0.15							TM062 ^M	<0.15 mg/kg
Total Cyanide	<1	<1	<1							TM153 ^M	<1 mg/kg
Asbestos Presence Screen	No Fibres Detected	No Fibres Detected	No Fibres Detected							TM001	NONE
Elemental Sulphur	380	<70	<70							TM136 ^M	<70 mg/kg
Fraction of Organic Carbon	0.27	0.022	0.18							TM132 ^M	<0.002 NONE
Loss on Ignition	78	3.8	41							TM018 ^M	<0.3 %
pH Value	6.42	8.36	7.80							TM133 ^M	<1.00 pH Units

All results expressed on a dry weight basis.

Date 27.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17352/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5281

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93483 BH4 WC1	93485 BH4 WC2	93487 BH4 WC3								Method Code	Lob/Units
Depth (m)	9.5	9.00	7.0									
Sample Type	SOLID	SOLID	SOLID									
Sampled Date	10.10.08	10.10.08	10.10.08									
Sample Received Date	17.10.08	17.10.08	17.10.08									
Batch	1	1	1									
Sample Number(s)	1-5	6-10	11-15									
OCP/OPP												
Dichlorvos	<5	<10	<5								TM144/145	<1 ug/kg
Mevinphos	<5	<10	<5								TM144/145	<1 ug/kg
Alpha-BHC (Lindane)	<5	<10	<5								TM144/145	<1 ug/kg
Beta-BHC (Lindane)	<5	<10	<5								TM144/145	<1 ug/kg
Gamma-BHC (Lindane)	<5	<10	<5								TM144/145	<1 ug/kg
Diazinon	<5	<10	<5								TM144/145	<1 ug/kg
Methyl Parathion	<5	<10	<5								TM144/145	<1 ug/kg
Heptachlor	<5	<10	<5								TM144/145	<1 ug/kg
Fenitrothion	<5	<10	<5								TM144/145	<1 ug/kg
Malathion	<5	<10	<5								TM144/145	<1 ug/kg
Aldrin	<5	<10	<5								TM144/145	<1 ug/kg
Parathion	<5	<10	<5								TM144/145	<1 ug/kg
Heptachlor Epoxide	<5	<10	<5								TM144/145	<1 ug/kg
Endosulphan I	<5	<10	<5								TM144/145	<1 ug/kg
p,p'-DDE	<5	<10	<5								TM144/145	<1 ug/kg
Dieldrin	<5	<10	<5								TM144/145	<1 ug/kg
Endrin	<5	<10	<5								TM144/145	<1 ug/kg
Endosulphan II	<5	<10	<5								TM144/145	<1 ug/kg
p,p'-TDE(DDD)	<5	<10	<5								TM144/145	<1 ug/kg
Ethion	<5	<10	<5								TM144/145	<1 ug/kg
p,p'-DDT	<5	<10	<5								TM144/145	<1 ug/kg
Endosulphan sulphate	<5	<10	<5								TM144/145	<1 ug/kg
p,p'-Methoxychlor	<5	<10	<5								TM144/145	<1 ug/kg
Azinphos methyl	<5	<10	<5								TM144/145	<1 ug/kg

All results expressed on a dry weight basis.

Date 27.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17352/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5281

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93483 BH4 WC1	93485 BH4 WC2	93487 BH4 WC3								Method Code	L0D/Units
Depth (m)	9.5	9.00	7.0									
Sample Type	SOLID	SOLID	SOLID									
Sampled Date	10.10.08	10.10.08	10.10.08									
Sample Received Date	17.10.08	17.10.08	17.10.08									
Batch	1	1	1									
Sample Number(s)	1-5	6-10	11-15									
SVOC by GCMS												
Phenols												
2-Chlorophenol	<100	<100	<100								TM157	<100 ug/kg
2-Methylphenol	<100	<100	<100								TM157	<100 ug/kg
2-Nitrophenol	<100	<100	<100								TM157	<100 ug/kg
2,4-Dichlorophenol	<100	<100	<100								TM157	<100 ug/kg
2,4-Dimethylphenol	<100	<100	<100								TM157	<100 ug/kg
2,4,5-Trichlorophenol	<100	<100	<100								TM157	<100 ug/kg
2,4,6-Trichlorophenol	<100	<100	<100								TM157	<100 ug/kg
4-Chloro-3-methylphenol	<100	<100	<100								TM157	<100 ug/kg
4-Methylphenol	<100	<100	<100								TM157	<100 ug/kg
4-Nitrophenol	<100	<100	<100								TM157	<100 ug/kg
Pentachlorophenol	<100	<100	<100								TM157	<100 ug/kg
Phenol	<100	<100	<100								TM157	<100 ug/kg

All results expressed on a dry weight basis.

Date 27.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17352/02/01
Client: Envirolab
Client Ref. No.: 722201-5281

Matrix: SOLID
Location: SIZEWELL C
Client Contact: Envirolab Data

Sample Identity	93483 BH4 WC1	93485 BH4 WC2	93487 BI14 WC3								Method Code	Lod/Units
Depth (m)	9.5	9.00	7.0									
Sample Type	SOLID	SOLID	SOLID									
Sampled Date	10.10.08	10.10.08	10.10.08									
Sample Received Date	17.10.08	17.10.08	17.10.08									
Batch	1	1	1									
Sample Number(s)	1-5	6-10	11-15									
PAHs												
2-Chloronaphthalene	<100	<100	<100								TM157	<100 ug/kg
2-Methylnaphthalene	<100	<100	<100								TM157	<100 ug/kg
Acenaphthene	<100	<100	<100								TM157	<100 ug/kg
Acenaphthylene	<100	<100	<100								TM157	<100 ug/kg
Anthracene	<100	<100	<100								TM157	<100 ug/kg
Benzo(a)anthracene	<100	<100	<100								TM157	<100 ug/kg
Benzo(a)pyrene	<100	<100	<100								TM157	<100 ug/kg
Benzo(b)fluoranthene	<100	<100	<100								TM157	<100 ug/kg
Benzo(ghi)perylene	<100	<100	<100								TM157	<100 ug/kg
Benzo(k)fluoranthene	<100	<100	<100								TM157	<100 ug/kg
Chrysene	<100	<100	<100								TM157	<100 ug/kg
Dibenzo(a,h)anthracene	<100	<100	<100								TM157	<100 ug/kg
Fluoranthene	<100	<100	<100								TM157	<100 ug/kg
Fluorene	<100	<100	<100								TM157	<100 ug/kg
Indeno(1,2,3-cd)pyrene	<100	<100	<100								TM157	<100 ug/kg
Naphthalene	<100	<100	<100								TM157	<100 ug/kg
Phenanthrene	<100	<100	<100								TM157	<100 ug/kg
Pyrene	<100	<100	<100								TM157	<100 ug/kg
Phthalates												
Bis(2-ethylhexyl) phthalate	<100	<100	<100								TM157	<100 ug/kg
Butylbenzyl phthalate	<100	<100	<100								TM157	<100 ug/kg
Di-n-butyl phthalate	<100	<100	<100								TM157	<100 ug/kg
Di-n-Octyl phthalate	<100	<100	<100								TM157	<100 ug/kg
Diethyl phthalate	<100	<100	<100								TM157	<100 ug/kg
Dimethyl phthalate	<100	<100	<100								TM157	<100 ug/kg
Other Semi-volatiles												
1,2-Dichlorobenzene	<100	<100	<100								TM157	<100 ug/kg
1,2,4-Trichlorobenzene	<100	<100	<100								TM157	<100 ug/kg

All results expressed on a dry weight basis.

Date 27.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17352/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5281

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93483 BH4 WC1	93485 BH4 WC2	93487 BH4 WC3								Method Code	LoD/Units
Depth (m)	9.5	9.00	7.0									
Sample Type	SOLID	SOLID	SOLID									
Sampled Date	10.10.08	10.10.08	10.10.08									
Sample Received Date	17.10.08	17.10.08	17.10.08									
Batch	1	1	1									
Sample Number(s)	1-5	6-10	11-15									
Other Semi-volatiles (cont)												
1,3-Dichlorobenzene	<100	<100	<100								TM157	<100 ug/kg
1,4-Dichlorobenzene	<100	<100	<100								TM157	<100 ug/kg
2-Nitroaniline	<100	<100	<100								TM157	<100 ug/kg
2,4-Dinitrotoluene	<100	<100	<100								TM157	<100 ug/kg
2,6-Dinitrotoluene	<100	<100	<100								TM157	<100 ug/kg
3-Nitroaniline	<100	<100	<100								TM157	<100 ug/kg
4-Bromophenylphenylether	<100	<100	<100								TM157	<100 ug/kg
4-Chloroaniline	<100	<100	<100								TM157	<100 ug/kg
4-Chlorophenylphenylether	<100	<100	<100								TM157	<100 ug/kg
4-Nitroaniline	<100	<100	<100								TM157	<100 ug/kg
Azobenzene	<100	<100	<100								TM157	<100 ug/kg
Bis(2-chloroethoxy)methane	<100	<100	<100								TM157	<100 ug/kg
Bis(2-chloroethyl)ether	<100	<100	<100								TM157	<100 ug/kg
Carbazole	<100	<100	<100								TM157	<100 ug/kg
Dibenzofuran	<100	<100	<100								TM157	<100 ug/kg
Hexachlorobenzene	<100	<100	<100								TM157	<100 ug/kg
Hexachlorobutadiene	<100	<100	<100								TM157	<100 ug/kg
Hexachlorocyclopentadiene	<100	<100	<100								TM157	<100 ug/kg
Hexachloroethane	<100	<100	<100								TM157	<100 ug/kg
Isophorone	<100	<100	<100								TM157	<100 ug/kg
N-nitrosodi-n-propylamine	<100	<100	<100								TM157	<100 ug/kg
Nitrobenzene	<100	<100	<100								TM157	<100 ug/kg

All results expressed on a dry weight basis.

Date 27.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17352/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5281

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93483 BH4 WC1	93485 BH4 WC2	93487 BH4 WC3							Method Code	LoD/Units
Depth (m)	9.5	9.00	7.0								
Sample Type	SOLID	SOLID	SOLID								
Sampled Date	10.10.08	10.10.08	10.10.08								
Sample Received Date	17.10.08	17.10.08	17.10.08								
Batch	1	1	1								
Sample Number(s)	1-5	6-10	11-15								
Volatile Organic Compounds											
Dichlorodifluoromethane	<4	<4	<4							TM116 ^d	<4 ug/kg
Chloromethane	<7	<7	<7							TM116 ^d	<7 ug/kg
Vinyl Chloride	<10	<10	<10							TM116 ^d _M	<10 ug/kg
Bromomethane	<13	<13	<13							TM116	<13 ug/kg
Chloroethane	<14	<14	<14							TM116 ^d	<14 ug/kg
Trichlorofluoromethane	<6	<6	<6							TM116 ^d _M	<6 ug/kg
trans-1-2-Dichloroethene	<11	<11	<11							TM116 ^d	<11 ug/kg
Dichloromethane	<10	<10	<10							TM116 ^d	<10 ug/kg
Carbon Disulphide	<7	<7	<7							TM116 ^d _M	<7 ug/kg
1,1-Dichloroethene	<10	<10	<10							TM116 ^d _M	<10 ug/kg
1,1-Dichloroethane	<8	<8	<8							TM116 ^d _M	<8 ug/kg
Methyl Tertiary Butyl Ether	<11	<11	<11							TM116	<11 ug/kg
cis-1-2-Dichloroethene	<5	<5	<5							TM116 ^d _M	<5 ug/kg
Bromochloromethane	<14	<14	<14							TM116 ^d	<14 ug/kg
Chloroform	<8	<8	<8							TM116 ^d _M	<8 ug/kg
2,2-Dichloropropane	<12	<12	<12							TM116	<12 ug/kg
1,2-Dichloroethane	<5	<5	<5							TM116 ^d	<5 ug/kg
1,1,1-Trichloroethane	<7	<7	<7							TM116 ^d _M	<7 ug/kg
1,1-Dichloropropene	<11	<11	<11							TM116 ^d _M	<11 ug/kg
Benzene	<9	<9	<9							TM116 ^d _M	<9 ug/kg
Carbon tetrachloride	<14	<14	<14							TM116 ^d _M	<14 ug/kg
Dibromomethane	<9	<9	<9							TM116 ^d	<9 ug/kg
1,2-Dichloropropane	<12	<12	<12							TM116 ^d _M	<12 ug/kg
Bromodichloromethane	<7	<7	<7							TM116 ^d _M	<7 ug/kg
Trichloroethene	<9	<9	<9							TM116 ^d _M	<9 ug/kg
cis-1-3-Dichloropropene	<14	<14	<14							TM116 ^d _M	<14 ug/kg
trans-1-3-Dichloropropene	<14	<14	<14							TM116 ^d _M	<14 ug/kg
1,1,2-Trichloroethane	<10	<10	<10							TM116 ^d	<10 ug/kg
Toluene	<5	<5	<5							TM116 ^d _M	<5 ug/kg
1,3-Dichloropropane	<7	<7	<7							TM116 ^d	<7 ug/kg

All results expressed on a dry weight basis.

Date 27.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 * Shown on prev. report

Job Number: 08/17352/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5281

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93483 BH4 WC1	93485 BH4 WC2	93487 BH4 WC3							Method Code	LoD/Units
Depth (m)	9.5	9.00	7.0								
Sample Type	SOLID	SOLID	SOLID								
Sampled Date	10.10.08	10.10.08	10.10.08								
Sample Received Date	17.10.08	17.10.08	17.10.08								
Batch	1	1	1								
Sample Number(s)	1-5	6-10	11-15								
Volatile Organic Compounds (cont)											
Dibromochloromethane	<13	<13	<13							TM116 ^d	<13 ug/kg
1,2-Dibromoethane	<12	<12	<12							TM116 ^d	<12 ug/kg
Tetrachloroethene	<5	<5	<5							TM116 ^d	<5 ug/kg
1,1,1,2-Tetrachloroethane	<10	<10	<10							TM116 ^{d,M}	<10 ug/kg
Chlorobenzene	<5	<5	<5							TM116 ^{d,M}	<5 ug/kg
Ethylbenzene	<4	<4	<4							TM116 ^d	<4 ug/kg
p/m-Xylene	<14	<14	<14							TM116 ^d	<14 ug/kg
Bromoforn	<10	<10	<10							TM116 ^d	<10 ug/kg
Styrene	<10	<10	<10							TM116 ^d	<10 ug/kg
1,1,2,2-Tetrachloroethane	<10	<10	<10							TM116 ^d	<10 ug/kg
o-Xylene	<10	<10	<10							TM116 ^d	<10 ug/kg
1,2,3-Trichloropropane	<17	<17	<17							TM116 ^d	<17 ug/kg
Isopropylbenzene	<5	<5	<5							TM116 ^d	<5 ug/kg
Bromobenzene	<10	<10	<10							TM116 ^{d,M}	<10 ug/kg
2-Chlorotoluene	<9	<9	<9							TM116 ^d	<9 ug/kg
Propylbenzene	<11	<11	<11							TM116 ^d	<11 ug/kg
4-Chlorotoluene	<12	<12	<12							TM116 ^d	<12 ug/kg
1,2,4-Trimethylbenzene	<9	<9	<9							TM116 ^d	<9 ug/kg
4-Isopropyltoluene	<11	<11	<11							TM116 ^d	<11 ug/kg
1,3,5-Trimethylbenzene	<8	<8	<8							TM116 ^d	<8 ug/kg
1,2-Dichlorobenzene	<12	<12	<12							TM116 ^{d,M}	<12 ug/kg
1,4-Dichlorobenzene	<5	<5	<5							TM116 ^{d,M}	<5 ug/kg
sec-Butylbenzene	<10	<10	<10							TM116 ^d	<10 ug/kg
tert-Butylbenzene	<12	<12	<12							TM116 ^d	<12 ug/kg
1,3-Dichlorobenzene	<6	<6	<6							TM116 ^d	<6 ug/kg
n-Butylbenzene	<10	<10	<10							TM116 ^d	<10 ug/kg
1,2-Dibromo-3-chloropropane	<14	<14	<14							TM116 ^d	<14 ug/kg
1,2,4-Trichlorobenzene	<6	<6	<6							TM116 ^d	<6 ug/kg
Naphthalene	<13	<13	<13							TM116 ^d	<13 ug/kg
1,2,3-Trichlorobenzene	<11	<11	<11							TM116 ^d	<11 ug/kg

All results expressed on a dry weight basis.

Date 27.10.2008

Validated
Preliminary

ALcontrol Laboratories Analytical Services
Table Of Results

- * ISO 17025 accredited
- M MCERTS accredited
- * Subcontracted test
- » Shown on prev. report

Job Number: 08/17352/02/01
Client: Envirolab
Client Ref. No.: 722201-5281

Matrix: SOLID
Location: SIZEWELL C
Client Contact: Envirolab Data

Sample Identity	93483 BH4 WC1	93485 BH4 WC2	93487 BH4 WC3									Method Code	LOD/Units
Depth (m)	9.5	9.00	7.0										
Sample Type	SOLID	SOLID	SOLID										
Sampled Date	10.10.08	10.10.08	10.10.08										
Sample Received Date	17.10.08	17.10.08	17.10.08										
Batch	1	1	1										
Sample Number(s)	1-5	6-10	11-15										
Volatile Organic Compounds (cont)													
Hexachlorobutadiene	<12	<12	<12									TM116 ^d	<12 ug/kg

All results expressed on a dry weight basis.

Date 27.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17352/02/01
Client: Envirolab
Client Ref. No.: 722201-5281

Matrix: LEACHATE
Location: SIZEWELL C
Client Contact: Envirolab Data

Sample Identity	93483 BH4 WC1	93485 BH4 WC2	93487 BH4 WC3							Method Code	Lob/Units
Depth (m)	9.5	9.00	7.0								
Sample Type	SOLID	SOLID	SOLID								
Sampled Date	10.10.08	10.10.08	10.10.08								
Sample Received Date	17.10.08	17.10.08	17.10.08								
Batch	1	1	1								
Sample Number(s)	1-5	6-10	11-15								
Arsenic Dissolved (NRA) (ICP-MS)	1.4	45	3.1							TM152	<0.75 ug/l
Boron Dissolved (NRA) (ICP-MS)	440	40	1500							TM152	<20 ug/l
Cadmium Dissolved (NRA) (ICP-MS)	<0.22	<0.22	<0.22							TM152	<0.22 ug/l
Chromium Dissolved (NRA) (ICP-MS)	<1	2	<1							TM152	<1 ug/l
Copper Dissolved (NRA) (ICP-MS)	<1.6	7.0	1.8							TM152	<1.6 ug/l
Lead Dissolved (NRA) (ICP-MS)	1.5	1.3	1.4							TM152	<0.4 ug/l
Nickel Dissolved (NRA) (ICP-MS)	<1.5	2.8	<1.5							TM152	<1.5 ug/l
Selenium Dissolved (NRA) (ICP-MS)	3	4	3							TM152	<1 ug/l
Vanadium Dissolved (NRA) (ICP-MS)	<1	110	17							TM152	<1 ug/l
Zinc Dissolved (NRA) (ICP-MS)	<5	6	5							TM152	<5 ug/l
Mercury Dissolved (NRA) (CVAF)	<0.01	<0.01	<0.01							TM183	<0.01 ug/l
Sulphate (NRA)	51	<3	46							TM098	<3 mg/l
Phenols Monohydric (NRA)	0.03	0.04	0.04							TM062	<0.01 mg/l
Total Cyanide (NRA)	<0.05	<0.05	<0.05							TM153	<0.05 mg/l
pH (NRA)	7.74	8.48	8.22							TM133	<100 pH Units

Date 27.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17352/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5281

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93483 BH4 WC1	93485 BH4 WC2	93487 BH4 WC3								Method Code	LoD/Units
Depth (m)	9.5	9.00	7.0									
Sample Type	SOLID	SOLID	SOLID									
Sampled Date	10.10.08	10.10.08	10.10.08									
Sample Received Date	17.10.08	17.10.08	17.10.08									
Batch	1	1	1									
Sample Number(s)	1-5	6-10	11-15									
GRO (C4-C12) (NRA)	<10	<10	<10								TM089	<10 ug/l
MTBE (NRA)	<10	<10	<10								TM089	<10 ug/l
Benzene (NRA)	<10	<10	<10								TM089	<10 ug/l
Toluene (NRA)	<10	<10	<10								TM089	<10 ug/l
Ethyl benzene (NRA)	<10	<10	<10								TM089	<10 ug/l
m & p Xylene (NRA)	<10	<10	<10								TM089	<10 ug/l
o Xylene (NRA)	<10	<10	<10								TM089	<10 ug/l
Aliphatics C5-C6 (NRA)	<10	<10	<10								TM089	<10 ug/l
Aliphatics >C6-C8 (NRA)	<10	<10	<10								TM089	<10 ug/l
Aliphatics >C8-C10 (NRA)	<10	<10	<10								TM089	<10 ug/l
Aliphatics >C10-C12 (NRA)	<10	<10	<10								TM089	<10 ug/l
Aliphatics >C12-C16 (NRA)	<10	<10	<10								TM174	<10 ug/l
Aliphatics >C16-C21 (NRA)	<10	<10	<10								TM174	<10 ug/l
Aliphatics >C21-C35 (NRA)	<10	<10	<10								TM174	<10 ug/l
Total Aliphatics C5-C35 (NRA)	<10	<10	<10								TM61/89	<10 ug/l
Aromatics C6-C7 (NRA)	<10	<10	<10								TM089	<10 ug/l
Aromatics >C7-C8 (NRA)	<10	<10	<10								TM089	<10 ug/l
Aromatics >EC8-EC10 (NRA)	<10	<10	<10								TM089	<10 ug/l
Aromatics >EC10-EC12 (NRA)	<10	<10	<10								TM089	<10 ug/l
Aromatics >EC12-EC16 (NRA)	<10	<10	<10								TM174	<10 ug/l
Aromatics >EC16-EC21 (NRA)	<10	<10	<10								TM174	<10 ug/l
Aromatics >EC21-EC35 (NRA)	<10	<10	<10								TM174	<10 ug/l
Total Aromatics C6-C35 (NRA)	<10	<10	<10								TM61/89	<10 ug/l
TPH (Aliphatics and Aromatics C5-C35) (NRA)	<10	<10	<10								TM61/89	<10 ug/l

Date 27.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17352/02/01
Client: Envirolab
Client Ref. No.: 722201-5281

Matrix: LEACHATE
Location: SIZEWELL C
Client Contact: Envirolab Data

Sample Identity	93483 BH4 WC1	93485 BH4 WC2	93487 BH4 WC3							Method Code	LoD/Units
Depth (m)	9.5	9.00	7.0								
Sample Type	SOLID	SOLID	SOLID								
Sampled Date	10.10.08	10.10.08	10.10.08								
Sample Received Date	17.10.08	17.10.08	17.10.08								
Batch	1	1	1								
Sample Number(s)	1-5	6-10	11-15								
PAH by GCMS											
Naphthalene (NRA)	<100	<100	<100							TM178	<100 ng/l
Acenaphthylene (NRA)	<11	<11	<11							TM178	<11 ng/l
Acenaphthene (NRA)	<15	<15	<15							TM178	<15 ng/l
Fluorene (NRA)	<14	<14	<14							TM178	<14 ng/l
Phenanthrene (NRA)	28	<22	<22							TM178	<22 ng/l
Anthracene (NRA)	<15	<15	<15							TM178	<15 ng/l
Fluoranthene (NRA)	23	<17	33							TM178	<17 ng/l
Pyrene (NRA)	17	<15	33							TM178	<15 ng/l
Benzo(a)anthracene (NRA)	<17	<17	<17							TM178	<17 ng/l
Chrysene (NRA)	<13	<13	<13							TM178	<13 ng/l
Benzo(b)fluoranthene (NRA)	<23	<23	<23							TM178	<23 ng/l
Benzo(k)fluoranthene (NRA)	<27	<27	<27							TM178	<27 ng/l
Benzo(a)pyrene (NRA)	<9	<9	<9							TM178	<9 ng/l
Indeno(123cd)pyrene (NRA)	<14	<14	<14							TM178	<14 ng/l
Dibenzo(ah)anthracene (NRA)	<16	<16	<16							TM178	<16 ng/l
Benzo(ghi)perylene (NRA)	<16	<16	<16							TM178	<16 ng/l
PAH 16 Total (NRA)	<100	<100	<100							TM178	<100 ng/l

Date 27.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 > Shown on prev. report

Job Number: 08/17352/02/01
Client: Envirolab
Client Ref. No.: 722201-5281

Matrix: LEACHATE
Location: SIZEWELL C
Client Contact: Envirolab Data

Sample Identity	93483 BH4 WC1	93485 BH4 WC2	93487 BH4 WC3								Method Code	LoD/Units
Depth (m)	9.5	9.00	7.0									
Sample Type	SOLID	SOLID	SOLID									
Sampled Date	10.10.08	10.10.08	10.10.08									
Sample Received Date	17.10.08	17.10.08	17.10.08									
Batch	1	1	1									
Sample Number(s)	1-5	6-10	11-15									
OCP/OPP												
Dichlorvos (NRA)	<10	<10	<10								TM144/145	<10 ng/l
Mevinphos (NRA)	<10	<10	<10								TM144/145	<10 ng/l
Alpha-BHC (Lindane) (NRA)	<10	<10	<10								TM144/145	<10 ng/l
Beta-BHC (Lindane) (NRA)	<10	<10	<10								TM144/145	<10 ng/l
Gamma-BHC (Lindane) (NRA)	<10	<10	<10								TM144/145	<10 ng/l
Diazinon (NRA)	<10	<10	<10								TM144/145	<10 ng/l
Methyl Parathion (NRA)	<10	<10	<10								TM144/145	<10 ng/l
Heptachlor (NRA)	<10	<10	<10								TM144/145	<10 ng/l
Fenitrothion (NRA)	<10	<10	<10								TM144/145	<10 ng/l
Malathion (NRA)	<10	<10	<10								TM144/145	<10 ng/l
Aldrin (NRA)	<10	<10	<10								TM144/145	<10 ng/l
Parathion (NRA)	<10	<10	<10								TM144/145	<10 ng/l
Heptachlor Epoxide (NRA)	<10	<10	<10								TM144/145	<10 ng/l
Endosulphan I (NRA)	<10	<10	<10								TM144/145	<10 ng/l
p,p'-DDE (NRA)	<10	<10	<10								TM144/145	<10 ng/l
Dieldrin (NRA)	<10	<10	<10								TM144/145	<10 ng/l
Endrin (NRA)	<10	<10	<10								TM144/145	<10 ng/l
Endosulphan II (NRA)	<10	<10	<10								TM144/145	<10 ng/l
p,p'-TDE(DDD) (NRA)	<10	<10	<10								TM144/145	<10 ng/l
Ethion (NRA)	<10	<10	<10								TM144/145	<10 ng/l
p,p'-DDT (NRA)	<10	<10	<10								TM144/145	<10 ng/l
Endosulphan sulphate (NRA)	<10	<10	<10								TM144/145	<10 ng/l
p,p'-Methoxychlor (NRA)	<10	<10	<10								TM144/145	<10 ng/l
Azinphos methyl (NRA)	<10	<10	<10								TM144/145	<10 ng/l

Date 27.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17352/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5281

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93483 BH4 WC1	93485 BH4 WC2	93487 BH4 WC3							Method Code	LoD/Units
Depth (m)	9.5	9.00	7.0								
Sample Type	SOLID	SOLID	SOLID								
Sampled Date	10.10.08	10.10.08	10.10.08								
Sample Received Date	17.10.08	17.10.08	17.10.08								
Batch	1	1	1								
Sample Number(s)	1-5	6-10	11-15								
SVOC by GCMS											
Phenols											
2-Chlorophenol (NRA)	<1	<1	<1							TM176	<1 ug/l
2-Methylphenol (NRA)	<1	<1	<1							TM176	<1 ug/l
2-Nitrophenol (NRA)	<1	<1	<1							TM176	<1 ug/l
2,4-Dichlorophenol (NRA)	<1	<1	<1							TM176	<1 ug/l
2,4-Dimethylphenol (NRA)	<1	<1	<1							TM176	<1 ug/l
2,4,5-Trichlorophenol (NRA)	<1	<1	<1							TM176	<1 ug/l
2,4,6-Trichlorophenol (NRA)	<1	<1	<1							TM176	<1 ug/l
4-Chloro-3-methylphenol (NRA)	<1	<1	<1							TM176	<1 ug/l
4-Methylphenol (NRA)	<1	<1	<1							TM176	<1 ug/l
4-Nitrophenol (NRA)	<1	<1	<1							TM176	<1 ug/l
Pentachlorophenol (NRA)	<1	<1	<1							TM176	<1 ug/l
Phenol (NRA)	<1	<1	<1							TM176	<1 ug/l

Date 27.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 > Shown on prev. report

Job Number: 08/17352/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5281

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93483 BH4 WC1	93485 BH4 WC2	93487 BH4 WC3							Method Code	LoD/Units
Depth (m)	9.5	9.00	7.0								
Sample Type	SOLID	SOLID	SOLID								
Sampled Date	10.10.08	10.10.08	10.10.08								
Sample Received Date	17.10.08	17.10.08	17.10.08								
Batch	1	1	1								
Sample Number(s)	1-5	6-10	11-15								
PAHs											
2-Chloronaphthalene (NRA)	<1	<1	<1							TM176	<1 ug/l
2-Methylnaphthalene (NRA)	<1	<1	<1							TM176	<1 ug/l
Phthalates											
Bis(2-ethylhexyl) phthalate (NRA)	<1	<1	<1							TM176	<1 ug/l
Butylbenzyl phthalate (NRA)	<1	<1	<1							TM176	<1 ug/l
Di-n-butyl phthalate (NRA)	<2	<2	<2							TM176	<1 ug/l
Di-n-Octyl phthalate (NRA)	<1	<1	<1							TM176	<1 ug/l
Diethyl phthalate (NRA)	<2	<2	<2							TM176	<1 ug/l
Dimethyl phthalate (NRA)	<1	<1	<1							TM176	<1 ug/l
Other Semi-volatiles											
1,2-Dichlorobenzene (NRA)	<1	<1	<1							TM176	<1 ug/l
1,2,4-Trichlorobenzene (NRA)	<1	<1	<1							TM176	<1 ug/l
1,3-Dichlorobenzene (NRA)	<1	<1	<1							TM176	<1 ug/l
1,4-Dichlorobenzene (NRA)	<1	<1	<1							TM176	<1 ug/l
2-Nitroaniline (NRA)	<1	<1	<1							TM176	<1 ug/l
2,4-Dinitrotoluene (NRA)	<1	<1	<1							TM176	<1 ug/l
2,6-Dinitrotoluene (NRA)	<1	<1	<1							TM176	<1 ug/l
3-Nitroaniline (NRA)	<1	<1	<1							TM176	<1 ug/l
4-Bromophenylphenylether (NRA)	<1	<1	<1							TM176	<1 ug/l
4-Chloroaniline (NRA)	<1	<1	<1							TM176	<1 ug/l
4-Chlorophenylphenylether (NRA)	<1	<1	<1							TM176	<1 ug/l
4-Nitroaniline (NRA)	<1	<1	<1							TM176	<1 ug/l
Azobenzene (NRA)	<1	<1	<1							TM176	<1 ug/l
Bis(2-chloroethoxy)methane (NRA)	<1	<1	<1							TM176	<1 ug/l
Bis(2-chloroethyl)ether (NRA)	<1	<1	<1							TM176	<1 ug/l
Carbazole (NRA)	<1	<1	<1							TM176	<1 ug/l
Dibenzofuran (NRA)	<1	<1	<1							TM176	<1 ug/l
Hexachlorobenzene (NRA)	<1	<1	<1							TM176	<1 ug/l

Date 27.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17352/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5281

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93483 BH4 WC1	93485 BH4 WC2	93487 BH4 WC3								Method Code	LoD/Units
Depth (m)	9.5	9.00	7.0									
Sample Type	SOLID	SOLID	SOLID									
Sampled Date	10.10.08	10.10.08	10.10.08									
Sample Received Date	17.10.08	17.10.08	17.10.08									
Batch	1	1	1									
Sample Number(s)	1-5	6-10	11-15									
Volatile Organic Compounds												
Dichlorodifluoromethane (NRA)	<1	<1	<1								TM208	<1 ug/l
Chloromethane (NRA)	<1	<1	<1								TM208	<1 ug/l
Vinyl Chloride (NRA)	<1	<1	<1								TM208	<1 ug/l
Bromomethane (NRA)	<1	<1	<1								TM208	<1 ug/l
Chloroethane (NRA)	<1	<1	<1								TM208	<1 ug/l
Trichlorofluoromethane (NRA)	<1	<1	<1								TM208	<1 ug/l
trans-1,2-Dichloroethane (NRA)	<1	<1	<1								TM208	<1 ug/l
Dichloromethane (NRA)	<1	<1	<1								TM208	<1 ug/l
Carbon Disulphide (NRA)	<1	<1	<1								TM208	<1 ug/l
1,1-Dichloroethene (NRA)	<1	<1	<1								TM208	<1 ug/l
1,1-Dichloroethane (NRA)	<1	<1	<1								TM208	<1 ug/l
Methyl Tertiary Butyl Ether (NRA)	<1	<1	<1								TM208	<1 ug/l
cis-1,2-Dichloroethene (NRA)	<1	<1	<1								TM208	<1 ug/l
Bromochloromethane (NRA)	<1	<1	<1								TM208	<1 ug/l
Chloroform (NRA)	<1	<1	<1								TM208	<1 ug/l
2,2-Dichloropropane (NRA)	<1	<1	<1								TM208	<1 ug/l
1,2-Dichloroethane (NRA)	<1	<1	<1								TM208	<1 ug/l
1,1,1-Trichloroethane (NRA)	<1	<1	<1								TM208	<1 ug/l
1,1-Dichloropropene (NRA)	<1	<1	<1								TM208	<1 ug/l
Benzene (NRA)	<1	<1	<1								TM208	<1 ug/l
Carbon tetrachloride (NRA)	<1	<1	<1								TM208	<1 ug/l
Dibromomethane (NRA)	<1	<1	<1								TM208	<1 ug/l
1,2-Dichloropropane (NRA)	<1	<1	<1								TM208	<1 ug/l
Bromodichloromethane (NRA)	<1	<1	<1								TM208	<1 ug/l
Trichloroethene (NRA)	<1	<1	<1								TM208	<1 ug/l
cis-1,3-Dichloropropene (NRA)	<1	<1	<1								TM208	<1 ug/l
trans-1,3-Dichloropropene (NRA)	<1	<1	<1								TM208	<1 ug/l
1,1,2-Trichloroethane (NRA)	<1	<1	<1								TM208	<1 ug/l
Toluene (NRA)	<1	<1	<1								TM208	<1 ug/l
1,3-Dichloropropane (NRA)	<1	<1	<1								TM208	<1 ug/l

Date 27.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17352/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5281

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93483 BH4 WC1	93485 BH4 WC2	93487 BH4 WC3							Method Code	LoD/Units
Depth (m)	9.5	9.00	7.0								
Sample Type	SOLID	SOLID	SOLID								
Sampled Date	10.10.08	10.10.08	10.10.08								
Sample Received Date	17.10.08	17.10.08	17.10.08								
Batch	1	1	1								
Sample Number(s)	1-5	6-10	11-15								
Volatile Organic Compounds (cont)											
Dibromochloromethane (NRA)	<1	<1	<1							TM208	<1 ug/l
1,2-Dibromoethane (NRA)	<1	<1	<1							TM208	<1 ug/l
Tetrachloroethene (NRA)	<1	<1	<1							TM208	<1 ug/l
1,1,1,2-Tetrachloroethane (NRA)	<1	<1	<1							TM208	<1 ug/l
Chlorobenzene (NRA)	<1	<1	<1							TM208	<1 ug/l
Ethylbenzene (NRA)	<1	<1	<1							TM208	<1 ug/l
p/m-Xylene (NRA)	<1	<1	<1							TM208	<1 ug/l
Bromoform (NRA)	<1	<1	<1							TM208	<1 ug/l
Styrene (NRA)	<1	<1	<1							TM208	<1 ug/l
1,1,2,2-Tetrachloroethane (NRA)	<1	<1	<1							TM208	<1 ug/l
o-Xylene (NRA)	<1	<1	<1							TM208	<1 ug/l
1,2,3-Trichloropropane (NRA)	<1	<1	<1							TM208	<1 ug/l
Isopropylbenzene (NRA)	<1	<1	<1							TM208	<1 ug/l
Bromobenzene (NRA)	<1	<1	<1							TM208	<1 ug/l
2-Chlorotoluene (NRA)	<1	<1	<1							TM208	<1 ug/l
Propylbenzene (NRA)	<1	<1	<1							TM208	<1 ug/l
4-Chlorotoluene (NRA)	<1	<1	<1							TM208	<1 ug/l
1,2,4-Trimethylbenzene (NRA)	<1	<1	<1							TM208	<1 ug/l
4-Isopropyltoluene (NRA)	<1	<1	<1							TM208	<1 ug/l
1,3,5-Trimethylbenzene (NRA)	<1	<1	<1							TM208	<1 ug/l
1,2-Dichlorobenzene (NRA)	<1	<1	<1							TM208	<1 ug/l
1,4-Dichlorobenzene (NRA)	<1	<1	<1							TM208	<1 ug/l
sec-Butylbenzene (NRA)	<1	<1	<1							TM208	<1 ug/l
tert-Butylbenzene (NRA)	<1	<1	<1							TM208	<1 ug/l
1,3-Dichlorobenzene (NRA)	<1	<1	<1							TM208	<1 ug/l
n-Butylbenzene (NRA)	<1	<1	<1							TM208	<1 ug/l
1,2-Dibromo-3-chloropropane (NRA)	<1	<1	<1							TM208	<1 ug/l
1,2,4-Trichlorobenzene (NRA)	<1	<1	<1							TM208	<1 ug/l
Naphthalene (NRA)	<1	<1	<1							TM208	<1 ug/l
1,2,3-Trichlorobenzene (NRA)	<1	<1	<1							TM208	<1 ug/l

Date 27.10.2008

Date: 08 January 2009
Your Ref: 722201
Our Ref: 722201-(5281)-013
Project Manager: Steve Mackereth
Report to: John Wild

Envirolab
Units 7 & 8
Sandpits Business Park
Mottram Road
Hyde
Cheshire
SK14 3AR

Supplemental of Final Test Report 722201-(5281)-012

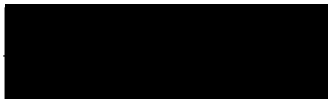
Sample(s) of Soil from Sizewell C.
Received from Structural Soils Ltd
The Old School House, Stillhouse Lane, Bedminster, Bristol, BS3 4EB

Date of receipt: 15 October 2008
Date analysis commenced: 15 October 2008
Date analysis completed: 08 January 2009

Method Statement

Speciated TPH analysis is performed in accordance with procedures A-T-022 using GC-MS with Head Space & A-T-023 using GC-FID.
PCB analysis is performed in accordance with procedures A-T-004 and A-T-005.
PAH analysis is performed in accordance with procedure A-T-019.
Loss on drying analysis is performed in accordance with procedure A-T-020.
Subcontract analysis was submitted to a laboratory on Envirolab's approved vendors list.
A copy of the report is attached, UKAS/MCERTS status is detailed on the report.

Prepared by:



Thi McNabb
Reporting Analytical Chemist

Approved by:



Louise Adams
Associate Director - Operations



Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
Tests marked "" in this report are not included in the UKAS Accreditation Schedule for Envirolab.
Analytical results reflect the quality of the sample at the time of analysis only.



Report No. 722201-013-(5281)
Site Name: Sizewell C
Date: 08/01/2009

ALcontrol Laboratories Analytical Services Sample Descriptions

Job Number: 08/20960/02/01
Client: Envirolab
Client Ref : 722201-5281

Grain sizes
<0.063mm Very Fine
0.1mm - 0.063mm Fine
0.1mm - 2mm Medium
2mm - 10mm Coarse
>10mm Very Coarse

Sample Identity	Depth (m)	Colour	Grain Size	Description	Batch
BH1 93480	6.50	Dark Brown	0.1mm - 0.063mm	Silt Loam with some Vegetation	1
BH5 93490	8.00	Black	0.1mm - 0.063mm	Silt Loam	1

* These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials-whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.
Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.
¹ Sample Description supplied by client

Validated
Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

° ISO 17025 accredited
M MCERTS accredited
* Subcontracted test
> Shown on prev. report

Job Number: 08/20960/02/01
Client: Envirolab
Client Ref. No.: 722201-5281

Matrix: SOLID
Location: SIZEWELL C
Client Contact: Subcon

Sample Identity	BH1 93480	BH5 93490									Method Code	LoD/Units
Depth (m)	6.50	8.00										
Sample Type	SOLID	SOLID										
Sampled Date	10.10.08	09.10.08										
Sample Received Date	22.12.08	22.12.08										
Batch	1	1										
Sample Number(s)	1	2										
Conductivity (at 20 deg.C)	NDP	14									TM120°	<=0.014 mS/cm
Sodium	13000	4200									TM083	<4 mg/kg
Chloride (soluble)	11000	3600									TM097 ^M	<2 mg/kg
Loss on Ignition	48	69									TM018 ^M	<0.3 %
pH Value	5.42	3.14									TM133 ^M	<1.00 pH Units

All results expressed on a dry weight basis.

Date 08.01.2009

ALcontrol Laboratories Analytical Services

Table Of Results - Appendix

Job Number: 08/20960/02/01
Client: Envirolab
Client Ref. No.: 722201-5281

Report Key :

NDP No Determination Possible	*	Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10 ⁻⁷
ACM Asbestos Containing Material	»	Result previously reported (Incremental reports only)
# ISO 17025 accredited	M	MCERTS Accredited
	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control.

Summary of Method Codes contained within report :

Method No.	Reference	Description	ISO 17025 Accredited	MCERTS Accredited	Wet/Dry Sample ¹	Surrogate Corrected
TM018	BS 1377: Part 3 1990	Determination of Loss on Ignition	✓	✓	WET	
TM083	Method 3111, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 7610	Determination of Sodium and Potassium by Flame Photometer			DRY	
TM097	Modified: US EPA Method 325.1 & 325.2	Determination of Chloride using the Kone Analyser	✓	✓	DRY	
TM120	Method 2510B, AWWA/APIA, 20th Ed., 1999 / BS 2690: Part 9: 1970	Determination of Electrical Conductivity using a Conductivity Meter	✓		DRY	
TM133	BS 1377: Part 3 1990; BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter	✓	✓	WET	

¹ Applies to Solid samples only. **DRY** indicates samples have been dried at 35°C. **NA** = not applicable.

Date: 05 November 2008
Your Ref: 722201
Our Ref: 722201-(5299)-020
Project Manager: Steve Mackereth
Report to: John Wild

Envirolab
Units 7 & 8
Sandpits Business Park
Mottram Road
Hyde
Cheshire
SK14 3AR

Final Test Report

Sample(s) of Soil from Sizewell C.
Received from Structural Soils Ltd
The Old School House, Stillhouse Lane, Bedminster, Bristol, BS3 4EB

Date of receipt: 16 October 2008
Date analysis commenced: 16 October 2008
Date analysis completed: 05 November 2008

Method Statement

Speciated TPH analysis is performed in accordance with procedures A-T-022 using GC-MS with Head Space & A-T-023 using GC-FID.

PCB analysis is performed in accordance with procedures A-T-004 and A-T-005.

PAH analysis is performed in accordance with procedure A-T-019.

Loss on drying analysis is performed in accordance with procedure A-T-020.

Subcontract analysis was submitted to a laboratory on Envirolab's approved vendors list.

A copy of the report is attached, UKAS/MCERTS status is detailed on the report.

Prepared by:



Thi McNabb
Reporting Analytical Chemist

Approved by:



Louise Adams
Associate Director - Operations



Opinions and Interpretations expressed herein are outside the scope of UKAS accreditation.
Tests marked "" in this report are not included in the UKAS Accreditation Schedule for Envirolab.
Analytical results reflect the quality of the sample at the time of analysis only.



Report No. 722201-020-(5299)
Site Name: Sizewell C
Date: 05/11/2008

Envirolab Ref.	PROCEDURE	ISO17025	INCERTIS	93762	93764	93768	93770	93772					
Location				BH20 WC3	BH20 WC5	BH20 WC1	BH20 WC2	BH20 WC4					
Depth (m)				7.00	10.50	4.00	4.60	8.30					
Sample Ref				-	-	-	-	-					
Sample Type				-	-	-	-	-					
MTBE _n	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01					
Benzene _n	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01					
Toluene _n	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	0.01					
Ethyl Benzene _n	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01					
m & p Xylene _n	A-T-022	Y	N	<0.01	0.02	0.01	0.01	0.01					
o Xylene _n	A-T-022	Y	N	<0.01	<0.01	0.01	<0.01	<0.01					
Aliphatics >C5-C6 _n	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01					
Aliphatics >C6-C8 _n	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01					
Aliphatics >C8-C10 _n	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01					
Aliphatics >C10-C12 _n	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1					
Aliphatics >C12-C16 _n	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1					
Aliphatics >C16-C21 _n	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1					
Aliphatics >C21-C35 _n	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1					
Total Aliphatics		Y	N	<0.1	<0.1	<0.1	<0.1	<0.1					
Aromatics >C5-C7 _n	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01					
Aromatics >C7-C8 _n	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	0.01					
Aromatics >C8-C9 _n	A-T-022	Y	N	<0.01	0.02	0.01	0.01	0.02					
Aromatics >C9-C10 _n	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01					
Aromatics >C10-C12 _n	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1					
Aromatics >C12-C16 _n	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1					
Aromatics >C16-C21 _n	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1					
Aromatics >C21-C35 _n	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1					
Total Aromatics		Y	N	<0.1	<0.1	<0.1	<0.1	<0.1					
TPH (Aliphatics & Aromatics)		Y	N	<0.1	<0.1	<0.1	<0.1	<0.1					

Table 1 - Soil Speciated TPH Results (mg/kg)

Envirolab Ref.	PROCEDURE	ISO17025	MCERTS	93762	93764	93768	93770	93772					
Location				BH20 WC3	BH20 WC3	BH20 WC1	BH20 WC2	BH20 WC4					
Depth (m)				7.00	10.50	4.00	4.60	8.30					
Sample Ref				-	-	-	-	-					
Sample Type				-	-	-	-	-					
PCB BZ 28 _b	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005	<0.005	<0.005					
PCB BZ 52 _b	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005	<0.005	<0.005					
PCB BZ 101 _b	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005	<0.005	<0.005					
PCB BZ 118 _b	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005	<0.005	<0.005					
PCB BZ 138 _b	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005	<0.005	<0.005					
PCB BZ 153 _b	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005	<0.005	<0.005					
PCB BZ 180 _b	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005	<0.005	<0.005					

Table 2 - Soil PCB Results (mg/kg, expressed on a dry weight basis)

Envirolab Ref.	PROCEDURE	ISO 17025	MCERTS	93762	93764	93768	93770	93772					
				BH20 WC3	BH20 WC5	BH20 WC1	BH20 WC2	BH20 WC4					
Location				7.00	10.50	4.00	4.60	8.30					
Depth (m)				-	-	-	-	-					
Sample Ref				-	-	-	-	-					
Sample Type				-	-	-	-	-					
Naphthalene _n "	A-T-019	N	N	0.01	0.08	0.02	0.05	0.06					
Acenaphthylene _n "	A-T-019	N	N	<0.01	0.01	<0.01	<0.01	<0.01					
Acenaphthene _n "	A-T-019	N	N	<0.01	0.01	<0.01	<0.01	<0.01					
Fluorene _n "	A-T-019	N	N	<0.01	0.02	<0.01	<0.01	<0.01					
Phenanthrene _n "	A-T-019	N	N	0.05	0.14	0.03	0.03	0.08					
Anthracene _n "	A-T-019	Y	N	<0.01	0.02	<0.01	<0.01	<0.01					
Fluoranthene _n "	A-T-019	Y	N	0.03	0.14	0.01	0.01	0.03					
Pyrene _n "	A-T-019	Y	N	0.02	0.09	0.01	<0.01	0.01					
Benzo [a] anthracene _n "	A-T-019	N	N	<0.01	<0.01	<0.01	<0.01	<0.01					
Chrysene _n "	A-T-019	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01					
Benzo [b] fluoranthene _n Benzo [k] fluoranthene # _n "	A-T-019	Y	N	<0.01	0.12	<0.01	<0.01	<0.01					
Benzo [a] pyrene _n "	A-T-019	N	N	<0.01	5.21	0.01	<0.01	<0.01					
Indeno [123-cd] pyrene _n "	A-T-019	Y	N	<0.01	0.03	<0.01	<0.01	0.06					
Dibenz [ah] anthracene _n "	A-T-019	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01					
Benzo [ghi] perylene _n "	A-T-019	Y	N	0.02	0.03	0.02	<0.01	0.01					
Total 16 PAH Reported		N	N	0.13	5.90	0.10	0.09	0.25					

Due to coelution Benzo [b] fluoranthene and Benzo [k] fluoranthene are reported as one value.

Table 3 - Soil PAH Results (mg/kg, expressed on a dry weight basis)

Envirolab Ref.	93762	93764	93768	93770	93772					
Location	BH20 WC3	BH20 WC5	BH20 WC1	BH20 WC2	BH20 WC4					
Depth (m)	7.00	10.50	4.00	4.60	8.30					
Sample Ref	-	-	-	-	-					
Sample Type	-	-	-	-	-					
Type	Clay	Loam	Clay	Clay	Loam					
Colour	Gray	Black	Gray	Mixed	Black					
Consistency	Soft	Loose	Soft	Soft	Loose					
Some Stones	Yes	Yes	Yes	Yes	Yes					
>50 Stones	No	No	No	No	No					
Some Vegetation	Yes	Yes	No	Yes	Yes					
Very Wet	No	No	No	No	No					
Strong Odour	No	No	No	No	No					

Table 4 - Soil Matrix Table

Appendix

Code	Description
*	Increased detection limit due to sample interference
#	Increased detection limit due to sample dilution
\$	Analysis subcontracted
IS	Insufficient sample for analysis
IS-QC	Insufficient sample to retest following QC fail
NDP	No determination possible
~	Sample type outside the scope of our MCERTS accreditation since matrix not included in method validation
"	Analytes are associated with failed AQC targets for MCERTS, but passed some UKAS AQC
^	Sample result is not covered under Envirolab's accreditation schedule for MCERTS as the result exceeds the validated range. See notes 1-3.
F	Analysis suffixed "F" were performed on the filtered sample
D	Analysis suffixed "D" were performed on the sample air dried at <30°C
D	Analysis suffixed "D" were performed on the sample oven dried at 95°C
R	Analysis suffixed "R" were performed on the sample as received. Where results are expressed on a dry weight basis, the samples were air dried at 95°C
Notes	
1	For MCERTS the validated range covers up to 15mg/kg for individual PAHs, 200mg/kg for totals.
2	For MCERTS the validated range covers up to 3000mg/kg for Total TPH analysis.
3	For MCERTS the validated range covers up to 0.2mg/kg for individual PCBs, and 1.5mg/kg for the total reported as a total.
4	Natural stones and debris are excluded from analyses
5	Coarse granular material such as concrete, gravel and brick are not MCERTS accredited if they comprise the major part of the sample. Envirolab are currently accredited for MCERTS on soil types Sand, Clay and Loam only

Validated
Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
M MCERTS accredited
* Subcontracted test
» Shown on prev. report

Job Number: 08/17617/02/01
Client: Envirolab
Client Ref. No.: 722201-5299

Matrix: SOLID
Location: SIZEWELL C
Client Contact: Subcon

Sample Identity	93766 BH20											Method Code	LoD/Units
Depth (m)	10.00												
Sample Type	SOLID												
Sampled Date	14.10.08												
Sample Received Date	22.10.08												
Batch	1												
Sample Number(s)	1												
Arsenic	48											TM129 st	<3.0 mg/kg
Cadmium	<0.2											TM129	<0.2 mg/kg
Chromium	<4.5											TM129 st	<4.5 mg/kg
Copper	<6											TM129 st	<6 mg/kg
Lead	6											TM129 st	<2 mg/kg
Mercury	<0.4											TM129 st	<0.4 mg/kg
Nickel	2.0											TM129 st	<0.9 mg/kg
Zinc	9.7											TM129 st	<2.5 mg/kg
Total Alkalinity as CaCO ₃	85											TM043	<10 mg/kg

All results expressed on a dry weight basis.

Date 29.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 ** MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17377/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5299

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93762 BH20 WC3	93764 BH20 WC5	93768 BH20 WC1	93770 BH20 WC2	93772 BH20 WC4						Method Code	LOD/Units
Depth (m)	7.0	10.5	4.0	4.6	8.3							
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID							
Sampled Date	14.10.08	14.10.08	14.10.08	14.10.08	14.10.08							
Sample Received Date	18.10.08	18.10.08	18.10.08	18.10.08	18.10.08							
Batch	1	1	1	1	1							
Sample Number(s)	1-5	6-10	11-15	16-20	21-25							
Total Sulphate	680	13000	2700	3300	2900						TM129 ^M	<100 mg/kg
Boron Water Soluble	4.4	16	9.7	38	26						TM129 ^M	<3.5 mg/kg
Arsenic	18	39	17	9	8						TM129 ^M	<3.0 mg/kg
Cadmium	<0.2	0.4	0.3	<0.2	<0.2						TM129	<0.2 mg/kg
Chromium	25	7.2	39	24	12						TM129 ^M	<4.5 mg/kg
Copper	11	8	15	13	9						TM129 ^N	<6 mg/kg
Lead	13	7	19	10	12						TM129 ^N	<2 mg/kg
Mercury	<0.4	<0.4	<0.4	<0.4	<0.4						TM129 ^M	<0.4 mg/kg
Nickel	22	11	31	22	10						TM129 ^M	<0.9 mg/kg
Selenium	<3	<3	<3	<3	<3						TM129 ^M	<3 mg/kg
Vanadium	51	12	72	39	22						TM129 ^M	<1.5 mg/kg
Zinc	61	18	86	47	23						TM129 ^M	<2.5 mg/kg
Phenols Monohydric	<0.15	<0.15	<0.15	<0.15	<0.15						TM062 ^M	<0.15 mg/kg
Total Cyanide	<1	<1	<1	<1	<1						TM153 ^M	<1 mg/kg
Asbestos Presence Screen	No Fibres Detected	No Fibres Detected	No Fibres Detected	No Fibres Detected	No Fibres Detected						TM001	NONE
Elemental Sulphur	130	340	<70	<70	<70						TM136 ^M	<70 mg/kg
Fraction of Organic Carbon	0.013	0.26	0.026	0.14	0.24						TM132 ^F	<0.002 NONF
Loss on Ignition	3.9	54	6.8	41	52						TM018 ^M	<0.3 %
pH Value	8.50	6.51	8.02	7.80	7.20						TM133 ^M	<1.00 pH Units

All results expressed on a dry weight basis.

Date 31.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 * MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17377/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5299

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93762 BH20 WC3	93764 BH20 WC5	93768 BH20 WC1	93770 BH20 WC2	93772 BH20 WC4						Method Code	LoD/Units
Depth (m)	7.0	10.5	4.0	4.6	8.3							
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID							
Sampled Date	14.10.08	14.10.08	14.10.08	14.10.08	14.10.08							
Sample Received Date	18.10.08	18.10.08	18.10.08	18.10.08	18.10.08							
Batch	1	1	1	1	1							
Sample Number(s)	1-5	6-10	11-15	16-20	21-25							
OCP/OPP												
Dichlorvos	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
Mevinphos	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
Alpha-BHC (Lindane)	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
Beta-BHC (Lindane)	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
Gamma-BHC (Lindane)	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
Diazinon	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
Methyl Parathion	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
Heptachlor	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
Fenitrothion	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
Malathion	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
Aldrin	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
Parathion	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
Heptachlor Epoxide	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
Endosulphan I	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
p,p'-DDE	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
Dieldrin	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
Endrin	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
Endosulphan II	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
p,p'-TDE(DDD)	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
Ethion	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
p,p'-DDT	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
Endosulphan sulphate	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
p,p'-Methoxychlor	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg
Azinphos methyl	<10	<10	<10	<10	<10						TM144/145	<1 ug/kg

All results expressed on a dry weight basis.

Date 31.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17377/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5299

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93762 BH20 WC3	93764 BH20 WC5	93768 BH20 WC1	93770 BH20 WC2	93772 BH20 WC4						Method Code	LoD/Units
Depth (m)	7.0	10.5	4.0	4.6	8.3							
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID							
Sampled Date	14.10.08	14.10.08	14.10.08	14.10.08	14.10.08							
Sample Received Date	18.10.08	18.10.08	18.10.08	18.10.08	18.10.08							
Batch	1	1	1	1	1							
Sample Number(s)	1-5	6-10	11-15	16-20	21-25							
SVOC by GCMS												
Phenols												
2-Chlorophenol	<100	<100	<100	<100	<100						TM157	<100 ug/kg
2-Methylphenol	<100	<100	<100	<100	<100						TM157	<100 ug/kg
2-Nitrophenol	<100	<100	<100	<100	<100						TM157	<100 ug/kg
2,4-Dichlorophenol	<100	<100	<100	<100	<100						TM157	<100 ug/kg
2,4-Dimethylphenol	<100	<100	<100	<100	<100						TM157	<100 ug/kg
2,4,5-Trichlorophenol	<100	<100	<100	<100	<100						TM157	<100 ug/kg
2,4,6-Trichlorophenol	<100	<100	<100	<100	<100						TM157	<100 ug/kg
4-Chloro-3-methylphenol	<100	<100	<100	<100	<100						TM157	<100 ug/kg
4-Methylphenol	<100	<100	<100	<100	<100						TM157	<100 ug/kg
4-Nitrophenol	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Pentachlorophenol	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Phenol	<100	<100	<100	<100	<100						TM157	<100 ug/kg

All results expressed on a dry weight basis.

Date 31.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17377/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5299

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93762 BH20 WC3	93764 BH20 WC5	93768 BH20 WC1	93770 BH20 WC2	93772 BH20 WC4						Method Code	LoD/Units
Depth (m)	7.0	10.5	4.0	4.6	8.3							
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID							
Sampled Date	14.10.08	14.10.08	14.10.08	14.10.08	14.10.08							
Sample Received Date	18.10.08	18.10.08	18.10.08	18.10.08	18.10.08							
Batch	1	1	1	1	1							
Sample Number(s)	1-5	6-10	11-15	16-20	21-25							
PAHs												
2-Chloronaphthalene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
2-Methylnaphthalene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Acenaphthene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Acenaphthylene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Anthracene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Benzo(a)anthracene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Benzo(a)pyrene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Benzo(b)fluoranthene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Benzo(ghi)perylene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Benzo(k)fluoranthene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Chrysene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Dibenzo(a,h)anthracene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Fluoranthene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Fluorene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Indeno(1,2,3-cd)pyrene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Naphthalene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Phenanthrene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Pyrene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Phthalates												
Bis(2-ethylhexyl) phthalate	<200	1800	<100	720	<200						TM157	<100 ug/kg
Butylbenzyl phthalate	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Di-n-butyl phthalate	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Di-n-Octyl phthalate	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Diethyl phthalate	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Dimethyl phthalate	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Other Semi-volatiles												
1,2-Dichlorobenzene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
1,2,4-Trichlorobenzene	<100	<100	<100	<100	<100						TM157	<100 ug/kg

All results expressed on a dry weight basis.

Date 31.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17377/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5299

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93762 BH20 WC3	93764 BH20 WC5	93768 BH20 WC1	93770 BH20 WC2	93772 BH20 WC4						Method Code	Lot/Units
Depth (m)	7.0	10.5	4.0	4.6	8.3							
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID							
Sampled Date	14.10.08	14.10.08	14.10.08	14.10.08	14.10.08							
Sample Received Date	18.10.08	18.10.08	18.10.08	18.10.08	18.10.08							
Batch	1	1	1	1	1							
Sample Number(s)	1-5	6-10	11-15	16-20	21-25							
Other Semi-volatiles (cont)												
1,3-Dichlorobenzene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
1,4-Dichlorobenzene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
2-Nitroaniline	<100	<100	<100	<100	<100						TM157	<100 ug/kg
2,4-Dinitrotoluene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
2,6-Dinitrotoluene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
3-Nitroaniline	<100	<100	<100	<100	<100						TM157	<100 ug/kg
4-Bromophenylphenylether	<100	<100	<100	<100	<100						TM157	<100 ug/kg
4-Chloroaniline	<100	<100	<100	<100	<100						TM157	<100 ug/kg
4-Chlorophenylphenylether	<100	<100	<100	<100	<100						TM157	<100 ug/kg
4-Nitroaniline	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Azobenzene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Bis(2-chloroethoxy)methane	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Bis(2-chloroethyl)ether	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Carbazole	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Dibenzofuran	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Hexachlorobenzene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Hexachlorobutadiene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Hexachlorocyclopentadiene	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Hexachloroethane	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Isophorone	<100	<100	<100	<100	<100						TM157	<100 ug/kg
N-nitrosodi-n-propylamine	<100	<100	<100	<100	<100						TM157	<100 ug/kg
Nitrobenzene	<100	<100	<100	<100	<100						TM157	<100 ug/kg

All results expressed on a dry weight basis.

Date 31.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17377/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5299

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93762 BH20 WC3	93764 BH20 WC5	93768 BH20 WC1	93770 BH20 WC2	93772 BH20 WC4						Method Code	LoDU/Units
Depth (m)	7.0	10.5	4.0	4.6	8.3							
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID							
Sampled Date	14.10.08	14.10.08	14.10.08	14.10.08	14.10.08							
Sample Received Date	18.10.08	18.10.08	18.10.08	18.10.08	18.10.08							
Batch	1	1	1	1	1							
Sample Number(s)	1-5	6-10	11-15	16-20	21-25							
Volatile Organic Compounds												
Dichlorodifluoromethane	<4	<4	<4	<4	<4						TM116 ^d	<4 ug/kg
Chloromethane	<7	<7	<7	<7	<7						TM116 ^d	<7 ug/kg
Vinyl Chloride	<10	<10	<10	<10	<10						TM116 ^d _M	<10 ug/kg
Bromomethane	<13	<13	<13	<13	<13						TM116	<13 ug/kg
Chloroethane	<14	<14	<14	<14	<14						TM116 ^d	<14 ug/kg
Trichlorofluoromethane	<6	<6	<6	<6	<6						TM116 ^d _M	<6 ug/kg
trans-1-2-Dichloroethene	<11	<11	<11	<11	<11						TM116 ^d	<11 ug/kg
Dichloromethane	<10	<10	<10	<10	<10						TM116 ^d	<10 ug/kg
Carbon Disulphide	<7	700	<7	<7	160						TM116 ^d _M	<7 ug/kg
1,1-Dichloroethene	<10	<10	<10	<10	<10						TM116 ^d _M	<10 ug/kg
1,1-Dichloroethane	<8	<8	<8	<8	<8						TM116 ^d _M	<8 ug/kg
Methyl Tertiary Butyl Ether	<11	<11	<11	<11	<11						TM116	<11 ug/kg
cis-1-2-Dichloroethene	<5	<5	<5	<5	<5						TM116 ^d _M	<5 ug/kg
Bromochloromethane	<14	<14	<14	<14	<14						TM116 ^d	<14 ug/kg
Chloroform	<8	<8	<8	<8	<8						TM116 ^d _M	<8 ug/kg
2,2-Dichloropropane	<12	<12	<12	<12	<12						TM116	<12 ug/kg
1,2-Dichloroethane	<5	<5	<5	<5	<5						TM116 ^d	<5 ug/kg
1,1,1-Trichloroethane	<7	<7	<7	<7	<7						TM116 ^d _M	<7 ug/kg
1,1-Dichloropropene	<11	<11	<11	<11	<11						TM116 ^d _M	<11 ug/kg
Benzene	<9	<9	<9	<9	<9						TM116 ^d _M	<9 ug/kg
Carbontetrachloride	<14	<14	<14	<14	<14						TM116 ^d _M	<14 ug/kg
Dibromomethane	<9	<9	<9	<9	<9						TM116 ^d	<9 ug/kg
1,2-Dichloropropane	<12	<12	<12	<12	<12						TM116 ^d _M	<12 ug/kg
Bromodichloromethane	<7	<7	<7	<7	<7						TM116 ^d _M	<7 ug/kg
Trichloroethene	<9	<9	<9	<9	<9						TM116 ^d _M	<9 ug/kg
cis-1-3-Dichloropropene	<14	<14	<14	<14	<14						TM116 ^d _M	<14 ug/kg
trans-1-3-Dichloropropene	<14	<14	<14	<14	<14						TM116 ^d _M	<14 ug/kg
1,1,2-Trichloroethane	<10	<10	<10	<10	<10						TM116 ^d	<10 ug/kg
Toluene	<5	<5	<5	<5	<5						TM116 ^d _M	<5 ug/kg
1,3-Dichloropropane	<7	<7	<7	<7	<7						TM116 ^d	<7 ug/kg

All results expressed on a dry weight basis.

Date 31.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 * Shown on prev. report

Job Number: 08/17377/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5299

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93762 BH20 WC3	93764 BH20 WC5	93768 BH20 WC1	93770 BH20 WC2	93772 BH20 WC4						Method Code	LoD/Units
Depth (m)	7.0	10.5	4.0	4.6	8.3							
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID							
Sampled Date	14.10.08	14.10.08	14.10.08	14.10.08	14.10.08							
Sample Received Date	18.10.08	18.10.08	18.10.08	18.10.08	18.10.08							
Batch	1	1	1	1	1							
Sample Number(s)	1-5	6-10	11-15	16-20	21-25							
Volatile Organic Compounds (cont)												
Dibromochloromethane	<13	<13	<13	<13	<13						TM116 ^f	<13 ug/kg
1,2-Dibromoethane	<12	<12	<12	<12	<12						TM116 ^f	<12 ug/kg
Tetrachloroethene	<5	<5	<5	<5	<5						TM116 ^f	<5 ug/kg
1,1,1,2-Tetrachloroethane	<10	<10	<10	<10	<10						TM116 ^{fM}	<10 ug/kg
Chlorobenzene	<5	<5	<5	<5	<5						TM116 ^{fM}	<5 ug/kg
Ethylbenzene	<4	<4	<4	<4	<4						TM116 ^f	<4 ug/kg
p-m-Xylene	<14	<14	<14	<14	<14						TM116 ^f	<14 ug/kg
Bromoform	<10	<10	<10	<10	<10						TM116 ^f	<10 ug/kg
Styrene	<10	<10	<10	<10	<10						TM116 ^f	<10 ug/kg
1,1,2,2-Tetrachloroethane	<10	<10	<10	<10	<10						TM116 ^f	<10 ug/kg
o-Xylene	<10	<10	<10	<10	<10						TM116 ^f	<10 ug/kg
1,2,3-Trichloropropane	<17	<17	<17	<17	<17						TM116 ^f	<17 ug/kg
Isopropylbenzene	<5	<5	<5	<5	<5						TM116 ^f	<5 ug/kg
Bromobenzene	<10	<10	<10	<10	<10						TM116 ^{fM}	<10 ug/kg
2-Chlorotoluene	<9	<9	<9	<9	<9						TM116 ^f	<9 ug/kg
Propylbenzene	<11	<11	<11	<11	<11						TM116 ^f	<11 ug/kg
4-Chlorotoluene	<12	<12	<12	<12	<12						TM116 ^f	<12 ug/kg
1,2,4-Trimethylbenzene	<9	<9	<9	<9	<9						TM116 ^f	<9 ug/kg
4-Isopropyltoluene	<11	<11	<11	<11	<11						TM116 ^f	<11 ug/kg
1,3,5-Trimethylbenzene	<8	<8	<8	<8	<8						TM116 ^f	<8 ug/kg
1,2-Dichlorobenzene	<12	<12	<12	<12	<12						TM116 ^{fM}	<12 ug/kg
1,4-Dichlorobenzene	<5	<5	<5	<5	<5						TM116 ^{fM}	<5 ug/kg
sec-Butylbenzene	<10	<10	<10	<10	<10						TM116 ^f	<10 ug/kg
tert-Butylbenzene	<12	<12	<12	<12	<12						TM116 ^f	<12 ug/kg
1,3-Dichlorobenzene	<6	<6	<6	<6	<6						TM116 ^f	<6 ug/kg
n-Butylbenzene	<10	<10	<10	<10	<10						TM116 ^f	<10 ug/kg
1,2-Dibromo-3-chloropropane	<14	<14	<14	<14	<14						TM116 ^f	<14 ug/kg
1,2,4-Trichlorobenzene	<6	<6	<6	<6	<6						TM116 ^f	<6 ug/kg
Naphthalene	<13	<13	<13	<13	<13						TM116 ^f	<13 ug/kg
1,2,3-Trichlorobenzene	<11	<11	<11	<11	<11						TM116 ^f	<11 ug/kg

All results expressed on a dry weight basis.

Date 31.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

[#] ISO 17025 accredited
^M MCERTS accredited
^{*} Subcontracted test
[»] Shown on prev. report

Job Number: 08/17377/02/01
Client: Envirolab
Client Ref. No.: 722201-5299

Matrix: SOLID
Location: SIZEWELL C
Client Contact: Envirolab Data

Sample Identity	93762 BH20 WC3	93764 BH20 WC5	93768 BH20 WC1	93770 BH20 WC2	93772 BH20 WC4									Method Code	LoD/Units
Depth (m)	7.0	10.5	4.0	4.6	8.3										
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID										
Sampled Date	14.10.08	14.10.08	14.10.08	14.10.08	14.10.08										
Sample Received Date	18.10.08	18.10.08	18.10.08	18.10.08	18.10.08										
Batch	1	1	1	1	1										
Sample Number(s)	1-5	6-10	11-15	16-20	21-25										
Volatile Organic Compounds (cont)															
Hexachlorobutadiene	<12	<12	<12	<12	<12									TMI 16 ^g	<12 ug/kg

All results expressed on a dry weight basis.

Date 31.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

ISO 17025 accredited
 # MCERTS accredited
 * Subcontracted test
 * Shown on prev. report

Job Number: 08/17377/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5299

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93762 BH20 WC3	93764 BH20 WC5	93768 BH20 WC1	93770 BH20 WC2	93772 BH20 WC4						Method Code	LoD/Units
Depth (m)	7.0	10.5	4.0	4.6	8.3							
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID							
Sampled Date	14.10.08	14.10.08	14.10.08	14.10.08	14.10.08							
Sample Received Date	18.10.08	18.10.08	18.10.08	18.10.08	18.10.08							
Batch	1	1	1	1	1							
Sample Number(s)	1-5	6-10	11-15	16-20	21-25							
Arsenic Dissolved (NRA) (ICP-MS)	20	1.4	5.5	3.9	2.6						TM152	<0.75 ug/l
Boron Dissolved (NRA) (ICP-MS)	160	210	320	1000	730						TM152	<20 ug/l
Cadmium Dissolved (NRA) (ICP-MS)	<0.22	<0.22	<0.22	<0.22	<0.22						TM152	<0.22 ug/l
Chromium Dissolved (NRA) (ICP-MS)	<1	<1	2	1	2						TM152	<1 ug/l
Copper Dissolved (NRA) (ICP-MS)	10	4.4	4.6	4.4	2.8						TM152	<1.6 ug/l
Lead Dissolved (NRA) (ICP-MS)	1.2	0.8	1.7	1.5	2.7						TM152	<0.4 ug/l
Nickel Dissolved (NRA) (ICP-MS)	3.5	<1.5	1.6	<1.5	<1.5						TM152	<1.5 ug/l
Selenium Dissolved (NRA) (ICP-MS)	5	<1	2	4	<1						TM152	<1 ug/l
Vanadium Dissolved (NRA) (ICP-MS)	110	<1	25	9	5						TM152	<1 ug/l
Zinc Dissolved (NRA) (ICP-MS)	11	<5	7	<5	5						TM152	<5 ug/l
Mercury Dissolved (NRA) (CVAF)	<0.01	<0.01	<0.01	<0.01	<0.01						TM183	<0.01 ug/l
Sulphate (NRA)	180	130	50	64	55						TM098	<3 mg/l
Phenols Monohydric (NRA)	<0.01	<0.01	<0.01	<0.01	<0.01						TM062	<0.01 mg/l
Total Cyanide (NRA)	<0.05	<0.05	<0.05	<0.05	<0.05						TM153	<0.05 mg/l
pH (NRA)	8.47	8.24	8.22	8.25	8.29						TM133	<1.00 pH Units

Date 31.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 * Shown on prev. report

Job Number: 08/17377/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5299

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93762 BH20 WC3	93764 BH20 WC5	93768 BH20 WC1	93770 BH20 WC2	93772 BH20 WC4						Method Code	LoD/Units
Depth (m)	7.0	10.5	4.0	4.6	8.3							
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID							
Sampled Date	14.10.08	14.10.08	14.10.08	14.10.08	14.10.08							
Sample Received Date	18.10.08	18.10.08	18.10.08	18.10.08	18.10.08							
Batch	1	1	1	1	1							
Sample Number(s)	1-5	6-10	11-15	16-20	21-25							
GRO (C4-C12) (NRA)	<10	<10	<10	<10	<10						TM089	<10 ug/l
MTBE (NRA)	<10	<10	<10	<10	<10						TM089	<10 ug/l
Benzene (NRA)	<10	<10	<10	<10	<10						TM089	<10 ug/l
Toluene (NRA)	<10	<10	<10	<10	<10						TM089	<10 ug/l
Ethyl benzene (NRA)	<10	<10	<10	<10	<10						TM089	<10 ug/l
m & p Xylene (NRA)	<10	<10	<10	<10	<10						TM089	<10 ug/l
o Xylene (NRA)	<10	<10	<10	<10	<10						TM089	<10 ug/l
Aliphatics C5-C6 (NRA)	<10	<10	<10	<10	<10						TM089	<10 ug/l
Aliphatics >C6-C8 (NRA)	<10	<10	<10	<10	<10						TM089	<10 ug/l
Aliphatics >C8-C10 (NRA)	<10	<10	<10	<10	<10						TM089	<10 ug/l
Aliphatics >C10-C12 (NRA)	<10	<10	<10	<10	<10						TM089	<10 ug/l
Aliphatics >C12-C16 (NRA)	<10	<10	<10	<10	<10						TM174	<10 ug/l
Aliphatics >C16-C21 (NRA)	<10	<10	<10	<10	<10						TM174	<10 ug/l
Aliphatics >C21-C35 (NRA)	<10	<10	<10	<10	<10						TM174	<10 ug/l
Total Aliphatics C5-C35 (NRA)	<10	<10	<10	<10	<10						TM61/89	<10 ug/l
Aromatics C6-C7 (NRA)	<10	<10	<10	<10	<10						TM089	<10 ug/l
Aromatics >C7-C8 (NRA)	<10	<10	<10	<10	<10						TM089	<10 ug/l
Aromatics >EC8-EC10 (NRA)	<10	<10	<10	<10	<10						TM089	<10 ug/l
Aromatics >EC10-EC12 (NRA)	<10	<10	<10	<10	<10						TM089	<10 ug/l
Aromatics >EC12-EC16 (NRA)	<10	<10	<10	<10	<10						TM174	<10 ug/l
Aromatics >EC16-EC21 (NRA)	<10	<10	<10	<10	<10						TM174	<10 ug/l
Aromatics >EC21-EC35 (NRA)	<10	<10	<10	<10	<10						TM174	<10 ug/l
Total Aromatics C6-C35 (NRA)	<10	<10	<10	<10	<10						TM61/89	<10 ug/l
PHI (Aliphatics and Aromatics C5-C35) (NRA)	<10	<10	<10	<10	<10						TM61/89	<10 ug/l

Date 31.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

ISO 17025 accredited
 * MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17377/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5299

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93762 BH20 WC3	93764 BH20 WC5	93768 BH20 WC1	93770 BH20 WC2	93772 BH20 WC4						Method Code	LoD/Units
Depth (m)	7.0	10.5	4.0	4.6	8.3							
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID							
Sampled Date	14.10.08	14.10.08	14.10.08	14.10.08	14.10.08							
Sample Received Date	18.10.08	18.10.08	18.10.08	18.10.08	18.10.08							
Batch	1	1	1	1	1							
Sample Number(s)	1-5	6-10	11-15	16-20	21-25							
PAH by GCMS												
Naphthalene (NRA)	<100	<100	<100	<100	<100						TM178	<100 ng/l
Acenaphthylene (NRA)	<11	<11	12	<11	<11						TM178	<11 ng/l
Acenaphthene (NRA)	<15	<15	<15	<15	<15						TM178	<15 ng/l
Fluorene (NRA)	<14	<14	<14	<14	<14						TM178	<14 ng/l
Phenanthrene (NRA)	<22	<22	32	<22	<22						TM178	<22 ng/l
Anthracene (NRA)	<15	<15	<15	<15	<15						TM178	<15 ng/l
Fluoranthene (NRA)	<17	<17	140	<17	<17						TM178	<17 ng/l
Pyrene (NRA)	<15	<15	130	<15	<15						TM178	<15 ng/l
Benz(a)anthracene (NRA)	<17	<17	<17	<17	<17						TM178	<17 ng/l
Chrysene (NRA)	<13	<13	15	<13	<13						TM178	<13 ng/l
Benzo(b)fluoranthene (NRA)	<23	<23	<23	<23	<23						TM178	<23 ng/l
Benzo(k)fluoranthene (NRA)	<27	<27	<27	<27	<27						TM178	<27 ng/l
Benzo(a)pyrene (NRA)	<9	<9	<9	<9	<9						TM178	<9 ng/l
Indeno(1,23cd)pyrene (NRA)	<14	<14	<14	<14	<14						TM178	<14 ng/l
Dibenzo(ah)anthracene (NRA)	<16	<16	<16	<16	<16						TM178	<16 ng/l
Benzo(ghi)perylene (NRA)	<16	<16	<16	<16	<16						TM178	<16 ng/l
PAH 16 Total (NRA)	<100	<100	330	<100	<100						TM178	<100 ng/l

Date 31.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17377/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5299

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93762 BH20 WC3	93764 BH20 WC5	93768 BH20 WC1	93770 BH20 WC2	93772 BH20 WC4						Method Code	LoD/Units
Depth (m)	7.0	10.5	4.0	4.6	8.3							
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID							
Sampled Date	14.10.08	14.10.08	14.10.08	14.10.08	14.10.08							
Sample Received Date	18.10.08	18.10.08	18.10.08	18.10.08	18.10.08							
Batch	1	1	1	1	1							
Sample Number(s)	1-5	6-10	11-15	16-20	21-25							
OCP/OPP												
Dichlorvos (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
Mevinphos (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
Alpha-BHC (Lindane) (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
Beta-BHC (Lindane) (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
Gamma-BHC (Lindane) (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
Diazinon (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
Methyl Parathion (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
Heptachlor (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
Fenitrothion (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
Malathion (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
Aldrin (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
Parathion (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
Heptachlor Epoxide (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
Endosulphan I (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
p,p'-DDE (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
Dieldrin (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
Endrin (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
Endosulphan II (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
p,p'-TDE(DDD) (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
Ethion (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
p,p'-DDT (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
Endosulphan sulphate (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
p,p'-Methoxychlor (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l
Azinphos methyl (NRA)	<10	<10	<10	<10	<10						TM144/145	<10 ng/l

Date 31.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17377/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5299

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93762 BH20 WC3	93764 BH20 WC5	93768 BH20 WC1	93770 BH20 WC2	93772 BH20 WC4						Method Code	LoD/Units
Depth (m)	7.0	10.5	4.0	4.6	8.3							
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID							
Sampled Date	14.10.08	14.10.08	14.10.08	14.10.08	14.10.08							
Sample Received Date	18.10.08	18.10.08	18.10.08	18.10.08	18.10.08							
Batch	1	1	1	1	1							
Sample Number(s)	1-5	6-10	11-15	16-20	21-25							
SVOC by GCMS												
Phenols												
2-Chlorophenol (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
2-Methylphenol (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
2-Nitrophenol (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
2,4-Dichlorophenol (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
2,4-Dimethylphenol (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
2,4,5-Trichlorophenol (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
2,4,6-Trichlorophenol (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
4-Chloro-3-methylphenol (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
4-Methylphenol (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
4-Nitrophenol (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
Pentachlorophenol (NRA)	<2	<2	<2	<2	<2						TM176	<1 ug/l
Phenol (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l

Date 31.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17377/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5299

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93762 BH20 WC3	93764 BH20 WC5	93768 BH20 WC1	93770 BH20 WC2	93772 BH20 WC4						Method Code	LoD/Units
Depth (m)	7.0	10.5	4.0	4.6	8.3							
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID							
Sampled Date	14.10.08	14.10.08	14.10.08	14.10.08	14.10.08							
Sample Received Date	18.10.08	18.10.08	18.10.08	18.10.08	18.10.08							
Batch	1	1	1	1	1							
Sample Number(s)	1-5	6-10	11-15	16-20	21-25							
PAHs												
2-Chloronaphthalene (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
2-Methylnaphthalene (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
Phthalates												
Bis(2-ethylhexyl) phthalate (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
Butylbenzyl phthalate (NRA)	<1	<2	<2	<1	<1						TM176	<1 ug/l
Di-n-butyl phthalate (NRA)	<2	<1	<1	<2	<2						TM176	<1 ug/l
Di-n-Octyl phthalate (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
Diethyl phthalate (NRA)	<2	<2	<2	<2	<2						TM176	<1 ug/l
Dimethyl phthalate (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
Other Semi-volatiles												
1,2-Dichlorobenzene (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
1,2,4-Trichlorobenzene (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
1,3-Dichlorobenzene (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
1,4-Dichlorobenzene (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
2-Nitroaniline (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
2,4-Dinitrotoluene (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
2,6-Dinitrotoluene (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
3-Nitroaniline (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
4-Bromophenylphenylether (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
4-Chloroaniline (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
4-Chlorophenylphenylether (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
4-Nitroaniline (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
Azobenzene (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
Bis(2-chloroethoxy)methane (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
Bis(2-chloroethyl)ether (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
Carbazole (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
Dibenzofuran (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
Hexachlorobenzene (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l

Date 31.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17377/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5299

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93762 BH20 WC3	93764 BH20 WCS	93768 BH20 WC1	93770 BH20 WC2	93772 BH20 WC4						Method Code	LoD/Units
Depth (m)	7.0	10.5	4.0	4.6	8.3							
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID							
Sampled Date	14.10.08	14.10.08	14.10.08	14.10.08	14.10.08							
Sample Received Date	18.10.08	18.10.08	18.10.08	18.10.08	18.10.08							
Batch	1	1	1	1	1							
Sample Number(s)	1-5	6-10	11-15	16-20	21-25							
Other Semi-volatiles (cont)												
Hexachlorobutadiene (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
Hexachlorocyclopentadiene (NRA)	<2	<2	<2	<2	<2						TM176	<1 ug/l
Hexachloroethane (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
Isophorone (NRA)	<2	<2	<2	<2	<2						TM176	<1 ug/l
N-nitrosodi-n-propylamine (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l
Nitrobenzene (NRA)	<1	<1	<1	<1	<1						TM176	<1 ug/l

Date 31.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17377/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5299

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93762 BH20 WC3	93764 BH20 WC5	93768 BH20 WC1	93770 BH20 WC2	93772 BH20 WC4						Method Code	LoD/Units
Depth (m)	7.0	10.5	4.0	4.6	8.3							
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID							
Sampled Date	14.10.08	14.10.08	14.10.08	14.10.08	14.10.08							
Sample Received Date	18.10.08	18.10.08	18.10.08	18.10.08	18.10.08							
Batch	1	1	1	1	1							
Sample Number(s)	1-5	6-10	11-15	16-20	21-25							
Volatile Organic Compounds												
Dichlorodifluoromethane (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Chloromethane (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Vinyl Chloride (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Bromomethane (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Chloroethane (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Trichlorofluoromethane (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
trans-1-2-Dichloroethene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Dichloromethane (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Carbon Disulphide (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
1,1-Dichloroethene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
1,1-Dichloroethane (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Methyl Tertiary Butyl Ether (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
cis-1-2-Dichloroethene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Bromoethane (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Chloroform (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
1,2-Dichloropropane (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
1,2-Dichloroethane (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
1,1,1-Trichloroethane (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
1,1-Dichloropropene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Benzene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Carbon tetrachloride (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Dibromomethane (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
1,2-Dichloropropane (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Bromodichloromethane (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Trichloroethene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
cis-1-3-Dichloropropene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
trans-1-3-Dichloropropene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
1,1,2-Trichloroethane (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Toluene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
1,3-Dichloropropane (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l

Date 31.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 * MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17377/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5299

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93762 BH20 WC3	93764 BH20 WC5	93768 BH20 WC1	93770 BH20 WC2	93772 BH20 WC4						Method Code	LoD/Units
Depth (m)	7.0	10.5	4.0	4.6	8.3							
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID							
Sampled Date	14.10.08	14.10.08	14.10.08	14.10.08	14.10.08							
Sample Received Date	18.10.08	18.10.08	18.10.08	18.10.08	18.10.08							
Batch	1	1	1	1	1							
Sample Number(s)	1-5	6-10	11-15	16-20	21-25							
Volatile Organic Compounds (cont)												
Dibromochloromethane (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
1,2-Dibromoethane (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Tetrachloroethene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
1,1,1,2-Tetrachloroethane (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Chlorobenzene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Ethylbenzene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
p,m-Xylene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Bromoform (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Styrene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
1,1,2,2-Tetrachloroethane (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
o-Xylene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
1,2,3-Trichloropropane (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Isopropylbenzene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Bromobenzene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
2-Chlorotoluene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Propylbenzene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
4-Chlorotoluene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
1,2,4-Trimethylbenzene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
4-Isopropyltoluene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
1,3,5-Trimethylbenzene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
1,2-Dichlorobenzene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
1,4-Dichlorobenzene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
sec-Butylbenzene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
tert-Butylbenzene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
1,3-Dichlorobenzene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
n-Butylbenzene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
1,2-Dibromo-2-chloropropane (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
1,2,4-Trichlorobenzene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
Naphthalene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l
1,2,3-Trichlorobenzene (NRA)	<1	<1	<1	<1	<1						TM208	<1 ug/l

Date 31.10.2008

ALcontrol Laboratories Analytical Services

Table Of Results - Appendix

Job Number: 08/17377/02/01
Client: Envirolab
Client Ref. No.: 722201-5299

Report Key :

NDP No Determination Possible
 NFD No Fibres Detected
 # ISO 17025 accredited
 PFD Possible Fibres Detected

* Subcontracted test
 » Result previously reported (Incremental reports only)
 M MCERTS Accredited
 EC Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control.

Summary of Method Codes contained within report :

Method No.	Reference	Description	ISO 17025 Accredited	MCERTS Accredited	Wet/Dry Sample ¹	Surrogate Corrected
TM001	In - house Method	Screening of Soils for Fibres			WET	
TM018	BS 1377: Part 3 1990	Determination of Loss on Ignition	✓	✓	WET	
TM062	MEWAM BOOK 124 1988.HMSO/ Method 17.7, Second Site property, March 2003	Determination of Phenolic compounds by HPLC with electro-chemical detection			NA	
TM062	MEWAM BOOK 124 1988.HMSO/ Method 17.7, Second Site property, March 2003	Determination of Phenolic compounds by HPLC with electro-chemical detection	✓	✓	WET	
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)			NA	
TM098	Method 4500E, AWWA/APIHA, 20th Ed., 1999	Determination of Sulphate using the Kone Analyser			NA	
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS			WET	
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS	✓		WET	
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS	✓	✓	WET	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer			DRY	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer	✓	✓	DRY	
TM132	In - house Method	ELTRA CS800 Operators Guide	✓		DRY	
TM133	BS 1377: Part 3 1990,BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter			NA	
TM133	BS 1377: Part 3 1990,BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter	✓	✓	WET	

¹ Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

ALcontrol Laboratories Analytical Services

Table Of Results - Appendix

Job Number: 08/17377/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5299

Report Key :

NDP No Determination Possible
 NFD No Fibres Detected
 # ISO 17025 accredited
 PFD Possible Fibres Detected

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10⁻⁷
 * Subcontracted test
 » Result previously reported (Incremental reports only)
 M MCERTS Accredited
 EC Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control.

Summary of Method Codes contained within report :

Method No.	Reference	Description	ISO 17025 Accredited	MCERTS Accredited	Wet/Dry Sample ¹	Surrogate Corrected
TM136	Method 17.10, Second Site property, March 2003	Determination of Sulphur by HPLC	✓	✓	DRY	
TM144/145		Organochlorine and Organophosphorus pesticides by GC-MS			DRY	
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS			NA	
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the "Skalar SANS+ System" Segmented Flow Analyser			NA	
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the "Skalar SANS+ System" Segmented Flow Analyser	✓	✓	WET	
TM157		Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone			WET	
TM174		Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID			NA	
TM176		Determination of SVOCs in Water by GCMS			NA	
TM178	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters			NA	
TM183	BS EN 23506:2002, (BS 6068-2:74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry			NA	
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters			NA	
TM61/89		see TM061 and TM089 for details			NA	

¹ Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

Date: 08 January 2009
Your Ref: 722201
Our Ref: 722201-(5299)-021
Project Manager: Steve Mackereth
Report to: John Wild

Envirolab
Units 7 & 8
Sandpits Business Park
Mottram Road
Hyde
Cheshire
SK14 3AR

Supplemental to Final Test Report 722201-(5299)-020

Sample(s) of Soil from Sizewell C.
Received from Structural Soils Ltd
The Old School House, Stillhouse Lane, Bedminster, Bristol, BS3 4EB

Date of receipt: 16 October 2008
Date analysis commenced: 16 October 2008
Date analysis completed: 08 January 2009

Method Statement

Speciated TPH analysis is performed in accordance with procedures A-T-022 using GC-MS with Head Space & A-T-023 using GC-FID.

PCB analysis is performed in accordance with procedures A-T-004 and A-T-005.

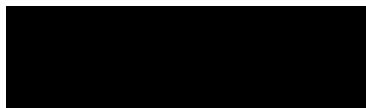
PAH analysis is performed in accordance with procedure A-T-019.

Loss on drying analysis is performed in accordance with procedure A-T-020.

Subcontract analysis was submitted to a laboratory on Envirolab's approved vendors list.

A copy of the report is attached, UKAS/MCERTS status is detailed on the report.

Prepared by:



Thi McNabb
Reporting Analytical Chemist

Approved by:



Louise Adams
Associate Director - Operations



Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
Tests marked "" in this report are not included in the UKAS Accreditation Schedule for Envirolab.
Analytical results reflect the quality of the sample at the time of analysis only.



Date: 06 November 2008
Your Ref: 722201 - PO. 6812
Our Ref: 722201-(5309)-030
Project Manager: Steve Mackereth
Report to: John Wild

Envirolab
Units 7 & 8
Sandpits Business Park
Mottram Road
Hyde
Cheshire
SK14 3AR

Final Test Report

Sample(s) of Soil from Sizewell C.
Received from Structural Soils Ltd
The Old School House, Stillhouse Lane, Bedminster, Bristol, BS3 4EB

Date of receipt: 17 October 2008
Date analysis commenced: 17 October 2008
Date analysis completed: 06 November 2008

Method Statement

Speciated TPH analysis is performed in accordance with procedures A-T-022 using GC-MS with Head Space & A-T-023 using GC-FID.

PCB analysis is performed in accordance with procedures A-T-004 and A-T-005.

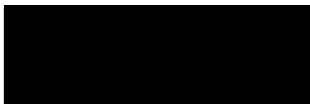
PAH analysis is performed in accordance with procedure A-T-019.

Loss on drying analysis is performed in accordance with procedure A-T-020.

Subcontract analysis was submitted to a laboratory on Envirolab's approved vendors list.

A copy of the report is attached, UKAS/MCERTS status is detailed on the report.

Prepared by:



Thi McNabb
Reporting Analytical Chemist

Approved by:



Louise Adams
Associate Director - Operations



Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
Tests marked "****" in this report are not included in the UKAS Accreditation Schedule for Envirolab.
Analytical results reflect the quality of the sample at the time of analysis only.



Envirolab Ref.	PROCEDURE	ISO17025	ACCERTS	93851	93853	93856	93857	93859	93861	93863	93865	93867
Location				BH23 WC1	BH23 WC2	BH23 WC3	BH23 WC4	BH10A WC3	BH10A WC4	BH10A WC5	BH10A WC1	BH10A WC2
Depth (m)				5.90	7.00	8.00	8.90	5.20	6.00	7.50	4.25	4.60
Sample Ref				-	-	-	-	-	-	-	-	-
Sample Type				-	-	-	-	-	-	-	-	-
MTBE _n	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Benzene _n	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toluene _n	A-T-022	Y	N	0.01	<0.01	0.01	0.01	<0.01	0.01	0.01	<0.01	0.01
Ethyl Benzene _n	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01
m & p Xylene _n	A-T-022	Y	N	<0.01	<0.01	0.01	0.01	0.01	0.03	0.01	0.01	0.02
o Xylene _n	A-T-022	Y	N	0.01	<0.01	0.01	0.01	<0.01	0.01	0.01	<0.01	0.01
Aliphatics >C5-C6 _n	A-T-022	Y	N	0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01
Aliphatics >C6-C8 _n	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C8-C10 _n	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aliphatics >C10-C12 _n	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aliphatics >C12-C16 _n	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aliphatics >C16-C21 _n	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aliphatics >C21-C35 _n	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Aliphatics		Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatics >C5-C7 _n	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Aromatics >C7-C8 _n	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	0.01
Aromatics >C8-C9 _n	A-T-022	Y	N	0.02	<0.01	0.02	0.03	0.01	0.05	0.03	0.01	0.04
Aromatics >C9-C10 _n	A-T-022	Y	N	0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	0.01
Aromatics >C10-C12 _n	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatics >C12-C16 _n	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatics >C16-C21 _n	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Aromatics >C21-C35 _n	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Aromatics		Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
TPH (Aliphatics & Aromatics)		Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

Table 1 - Soil Speciated TPH Results (mg/kg)

EnviroLab Ref.	PROCEDURE	ISO17025	NCERTB	93851	93853	93855	93857	93859	93861	93863	93865	93867	
Location				BH23 WC1	BH23 WC2	BH23 WC3	BH23 WC4	BH10A WC3	BH10A WC4	BH10A WC5	BH10A WC1	BH10A WC2	
Depth (m)				5.90	7.00	8.00	8.90	5.20	6.00	7.50	4.25	4.60	
Sample Ref				-	-	-	-	-	-	-	-	-	
Sample Type				-	-	-	-	-	-	-	-	-	
PCB BZ 28 _p	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
PCB BZ 52 _p	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
PCB BZ 191 _p	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
PCB BZ 118 _p	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
PCB BZ 136 _p	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
PCB BZ 159 _p	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
PCB BZ 180 _p	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	

Table 2 - Soil PCB Results (mg/kg, expressed on a dry weight basis)

Envirolab Ref.	PROCEDURE	ISO17025	INCERTS	93851	93853	93855	93857	93859	93861	93863	93865	93867	
Location				BH23 WC1	BH23 WC2	BH23 WC3	BH23 WC4	BH10A WC3	BH10A WC4	BH10A WC5	BH10A WC1	BH10A WC2	
Depth (m)				5.90	7.00	8.00	8.90	5.20	6.00	7.50	4.25	4.60	
Sample Ref				-	-	-	-	-	-	-	-	-	
Sample Type				-	-	-	-	-	-	-	-	-	
Naphthalene _n "	A-T-019	N	N	0.04	0.02	0.07	0.32	0.04	0.16	0.01	0.03	0.05	
Acenaphthylene _n "	A-T-019	N	N	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	
Acenaphthene _n "	A-T-019	N	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	
Fluorene _n "	A-T-019	N	N	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	
Phenanthrene _n "	A-T-019	N	N	0.06	0.02	0.04	0.18	0.04	0.02	0.02	0.03	0.03	
Anthracene _n "	A-T-019	Y	N	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	
Fluoranthene _n "	A-T-019	Y	N	0.05	0.02	0.07	0.16	0.03	0.07	0.07	0.02	0.02	
Pyrene _n "	A-T-019	Y	N	0.04	0.01	0.04	0.13	0.02	0.04	0.03	0.01	<0.01	
Benz [a] anthracene _n "	A-T-019	N	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Chrysene _n "	A-T-019	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Benzo [b] fluoranthene _n Benzo [k] fluoranthene # _n "	A-T-019	Y	N	0.11	0.05	0.20	1.20	0.13	0.03	0.02	<0.01	<0.01	
Benzo [e] pyrene _n "	A-T-019	N	N	<0.01	<0.01	0.40	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Indeno [123-cd] pyrene _n "	A-T-019	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Dibenz [ah] anthracene _n "	A-T-019	Y	N	<0.01	<0.01	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
Benzo [ghi] perylene _n "	A-T-019	Y	N	0.03	0.02	<0.01	<0.01	0.01	<0.01	0.02	<0.01	0.01	
Total 16 PAH Reported		N	N	0.33	0.14	0.89	2.12	0.27	0.32	0.17	0.09	0.12	

Due to confusion Benzo [b] fluoranthene and Benzo [k] fluoranthene are reported as one value.

Table 3 - Soil PAH Results (mg/kg, expressed on a dry weight basis)

Envirolab Ref.	93851	93853	93855	93857	93859	93861	93863	93865	93867	
Location	BH23 WC1	BH23 WC2	BH23 WC3	BH23 WC4	BH10A WC3	BH10A WC4	BH10A WC5	BH10A WC1	BH10A WC2	
Depth (m)	5.90	7.00	8.00	8.90	5.20	6.00	7.50	4.25	4.50	
Sample Ref	-	-	-	-	-	-	-	-	-	
Sample Type	-	-	-	-	-	-	-	-	-	
Type	Clay	Clay	Clay	Loam	Clay	Loam	Loam	Clay	Clay	
Colour	Grey Brown	Grey	Brown	Brown	Mixed	Black	Black	Grey	Brown	
Consistency	Firm	Soft	Soft	Loose	Soft	Loose	Loose	Soft	Soft	
Some Stones	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
>50 Stones	No	No	No	No	No	No	No	No	No	
Some Vegetation	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes	
Vary Wet	No	No	No	No	No	No	No	No	No	
Strong Odour	No	No	No	No	No	No	No	No	No	

Table 4 - Soil Matrix Table

Appendix

Code	Description
+	Increased detection limit due to sample interference
#	Increased detection limit due to sample dilution
\$	Analysis subcontracted
IS	Insufficient sample for analysis
IS-QC	Insufficient sample to retest following QC fail
NDP	No determination possible
~	Sample type outside the scope of our MCERTS accreditation since matrix not included in method validation
"	Analytes are associated with failed AQC targets for MCERTS, but passed UKAS AQC
A	Sample result is not covered under Envirolab's accreditation schedule for MCERTS as the result exceeds the validated range. See notes 1-3.
F	Analysis suffixed "f" were performed on the filtered sample
D	Analysis suffixed "d" were performed on the sample air dried at <30°C
O	Analysis suffixed "o" were performed on the sample oven dried at 95°C
R	Analysis suffixed "r" were performed on the sample as received. Where results are expressed on a dry weight basis, the samples were air dried at 95°C
Notes	
1	For MCERTS the validated range covers up to 15mg/kg for individual PAHs, 200mg/kg for totals.
2	For MCERTS the validated range covers up to 3000mg/kg for Total TPH analysis.
3	For MCERTS the validated range covers up to 0.2mg/kg for individual PCBs, and 1.5mg/kg for the total reported as aracor.
4	Natural stones and debris are excluded from analyses
5	Coarse granular material such as concrete, gravel and brick are not MCERTS accredited if they comprise the major part of the sample. Envirolab are currently accredited for MCERTS on soil types Sand, Clay and Loam only

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17619/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5309

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Subcon

Sample Identity	93880 BH6									Method Code	LoD/Units
Depth (m)	5.40										
Sample Type	SOLID										
Sampled Date	13.10.08										
Sample Received Date	22.10.08										
Batch	1										
Sample Number(s)	4										
Arsenic	22									TM129 ^M	<3.0 mg/kg
Cadmium	0.2									TM129	<0.2 mg/kg
Chromium	30									TM129 ^M	<4.5 mg/kg
Copper	15									TM129 ^M	<6 mg/kg
Lead	14									TM129 ^M	<2 mg/kg
Mercury	<0.4									TM129 ^M	<0.4 mg/kg
Nickel	30									TM129 ^M	<0.9 mg/kg
Zinc	64									TM129 ^M	<2.5 mg/kg
Total Alkalinity as CaCO ₃	<10									TM043	<10 mg/kg

All results expressed on a dry weight basis.

Date 06.11.2008

ALcontrol Laboratories Analytical Services Table Of Results - Appendix

Job Number: 08/17619/02/01
Client: Envirolab
Client Ref. No.: 722201-5309

Report Key :

NDP No Determination Possible * Subcontracted test
 NFD No Fibres Detected » Result previously reported (Incremental reports only)
 # ISO 17025 accredited M MCERTS Accredited
 PFD Possible Fibres Detected EC Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control.

Summary of Method Codes contained within report :

Method No.	Reference	Description	ISO 17025 Accredited	MCERTS Accredited	Wet/Dry Sample ¹	Surrogate Corrected
TM043	Method 2320B, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part109 1984	Determination of alkalinity in aqueous samples			WET	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer			DRY	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer	✓	✓	DRY	

¹ Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 > Shown on prev. report

Job Number: 08/17457/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5309

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93851	93853	93855	93857	93859	93861	93863	93865	93867	Method Code	LoD/Units
Depth (m)	BH23 WC1	BH23 WC2	BH23 WC3	BH23 WC4	BH10A WC3	BH10A WC4	BH10A WC5	BH10A WC1	BH10A WC2		
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID		
Sampled Date	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08		
Sample Received Date	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08		
Batch	1	1	1	1	1	1	1	1	1		
Sample Number(s)	1-4	5-8	9-12	13-15,21	16,22-23,34	17-20	25,28,31,33	26,29-30,32	24,27,35-36		
Total Sulphate	1700	1600	4200	3400	2300	7000	3200	1400	2900	TM129 ^M	<100 mg/kg
Boron Water Soluble	9.8	6.7	14	11	6.3	17	12	6.1	8.2	TM129 ^M	<3.5 mg/kg
Arsenic	8	17	19	14	30	9	<3	14	4	TM129 ^M	<3.0 mg/kg
Cadmium	<0.2	<0.2	0.2	0.2	0.2	<0.2	<0.2	<0.2	<0.2	TM129	<0.2 mg/kg
Chromium	26	41	36	24	47	11	<4.5	43	15	TM129 ^M	<4.5 mg/kg
Copper	10	17	17	12	16	6	<6	13	6	TM129 ^M	<6 mg/kg
Lead	10	16	16	11	18	5	5	19	7	TM129 ^M	<2 mg/kg
Mercury	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	TM129 ^M	<0.4 mg/kg
Nickel	21	33	31	23	41	11	1.8	33	12	TM129 ^M	<0.9 mg/kg
Selenium	<3	<3	<3	<3	<3	<3	<3	<3	<3	TM129 ^M	<3 mg/kg
Vanadium	48	78	62	51	97	28	3.0	81	32	TM129 ^M	<1.5 mg/kg
Zinc	60	92	85	57	93	25	11	82	28	TM129 ^M	<2.5 mg/kg
Phenols Monohydric	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	TM062 ^M	<0.15 mg/kg
Total Cyanide	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM153 ^M	<1 mg/kg
Asbestos Presence Screen	No Fibres Detected	No Fibres Detected	No Fibres Detected	No Fibres Detected	No Fibres Detected	No Fibres Detected	No Fibres Detected	No Fibres Detected	No Fibres Detected	TM001	NONE
Elemental Sulphur	<70	82	<70	<70	710	<70	97	<70	<70	TM136 ^M	<70 mg/kg
Fraction of Organic Carbon	0.033	0.019	0.11	0.20	0.044	0.29	0.24	0.036	0.16	TM132 ^M	<0.002 NONE
Loss on Ignition	10	4.8	24	70	8.2	65	72	18	75	TM018 ^M	<0.3 %
pH Value	8.17	8.43	7.54	6.99	7.66	6.55	6.20	7.76	6.87	TM133 ^M	<1.00 pH Units

All results expressed on a dry weight basis.

Date 30.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 > Shown on prev. report

Job Number: 08/17457/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5309

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93851	93853	93855	93857	93859	93861	93863	93865	93867	Method Code	LoD/Units
Depth (m)	BH23 WC1	BH23 WC2	BH23 WC3	BH23 WC4	BH10A WC3	BH10A WC4	BH10A WC5	BH10A WC1	BH10A WC2		
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID		
Sampled Date	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08		
Sample Received Date	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08		
Batch	1	1	1	1	1	1	1	1	1		
Sample Number(s)	1-4	5-8	9-12	13-15,21	16,22-23,34	17-20	25,28,31,33	26,29-30,32	24,27,35-36		
OCP/OPP											
Dichlorvos	<10	<10	<10	<10	<1	<10	<1	<1	<1	TM144/145	<1 ug/kg
Mevinphos	<10	<10	<10	<10	<1	<10	<1	<1	<1	TM144/145	<1 ug/kg
Alpha-BHC (Lindane)	<10	<10	<10	<10	<1	<10	<1	<1	<1	TM144/145	<1 ug/kg
Beta-BHC (Lindane)	<10	<10	<10	<10	<1	<10	<1	<1	<1	TM144/145	<1 ug/kg
Gamma-BHC (Lindane)	<10	<10	<10	<10	<1	<10	<1	<1	<1	TM144/145	<1 ug/kg
Diazinon	<10	<10	<10	<10	<1	<10	<1	<1	<1	TM144/145	<1 ug/kg
Methyl Parathion	<10	<10	<10	<10	<1	<10	<1	<1	<1	TM144/145	<1 ug/kg
Heptachlor	<10	<10	<10	<10	<1	<10	<1	<1	<1	TM144/145	<1 ug/kg
Fenitrothion	<10	<10	<10	<10	<1	<10	<1	<1	<1	TM144/145	<1 ug/kg
Malathion	<10	<10	<10	<10	<1	<10	<1	<1	<1	TM144/145	<1 ug/kg
Aldrin	<10	<10	<10	<10	<1	<10	<1	<1	<1	TM144/145	<1 ug/kg
Parathion	<10	<10	<10	<10	<1	<10	<1	<1	<1	TM144/145	<1 ug/kg
Heptachlor Epoxide	<10	<10	<10	<10	<1	<10	<1	<1	<1	TM144/145	<1 ug/kg
Endosulphan I	<10	<10	<10	<10	<1	<10	<1	<1	<1	TM144/145	<1 ug/kg
p,p'-DDE	<10	<10	<10	<10	<1	<10	<1	<1	<1	TM144/145	<1 ug/kg
Dieldrin	<10	<10	<10	<10	<1	<10	<1	<1	<1	TM144/145	<1 ug/kg
Endrin	<10	<10	<10	<10	<1	<10	<1	<1	<1	TM144/145	<1 ug/kg
Endosulphan II	<10	<10	<10	<10	<1	<10	<1	<1	<1	TM144/145	<1 ug/kg
p,p'-TDE(DDD)	<10	<10	<10	<10	<1	<10	<1	<1	<1	TM144/145	<1 ug/kg
Ethion	<10	<10	<10	<10	<1	<10	<1	<1	<1	TM144/145	<1 ug/kg
p,p'-DDT	<10	<10	<10	<10	<4	<10	<4	<4	<4	TM144/145	<1 ug/kg
Endosulphan sulphate	<10	<10	<10	<10	<1	<10	<1	<1	<1	TM144/145	<1 ug/kg
p,p'-Methoxychlor	<10	<10	<10	<10	<3	<10	<3	<3	<3	TM144/145	<1 ug/kg
Azinphos methyl	<10	<10	<10	<10	<1	<10	<1	<1	<1	TM144/145	<1 ug/kg

All results expressed on a dry weight basis.

Date 30.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17457/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5309

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93851	93853	93855	93857	93859	93861	93863	93865	93867	Method Code	LoD/Units
Depth (m)	BH23 WC1	BH23 WC2	BH23 WC3	BH23 WC4	BH10A WC3	BH10A WC4	BH10A WC5	BH10A WC1	BH10A WC2		
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID		
Sampled Date	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08		
Sample Received Date	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08		
Batch	1	1	1	1	1	1	1	1	1		
Sample Number(s)	1-4	5-8	9-12	13-15,21	16,22-23,34	17-20	25,28,31,33	26,29-30,32	24,27,35-36		
SVOC by GCMS											
Phenols											
2-Chlorophenol	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
2-Methylphenol	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
2-Nitrophenol	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
2,4-Dichlorophenol	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
2,4-Dimethylphenol	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
2,4,5-Trichlorophenol	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
2,4,6-Trichlorophenol	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
4-Chloro-3-methylphenol	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
4-Methylphenol	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
4-Nitrophenol	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Pentachlorophenol	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Phenol	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg

All results expressed on a dry weight basis.

Date 30.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 > Shown on prev. report

Job Number: 08/17457/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5309

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93851 BH23 WC1	93853 BH23 WC2	93855 BH23 WC3	93857 BH23 WC4	93859 BH10A WC3	93861 BH10A WC4	93863 BH10A WC5	93865 BH10A WC1	93867 BH10A WC2	Method Code	LoD/Units
Depth (m)	5.9	7.0	8.0	8.9	5.2	6.0	7.5	4.25	4.6		
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID		
Sampled Date	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08		
Sample Received Date	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08		
Batch	1	1	1	1	1	1	1	1	1		
Sample Number(s)	1-4	5-8	9-12	13-15,21	16,22-23,34	17-20	25,28,31,33	26,29-30,32	24,27,35-36		
PAHs											
2-Chloronaphthalene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
2-Methylnaphthalene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Acenaphthene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Acenaphthylene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Anthracene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Benzo(a)anthracene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Benzo(a)pyrene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Benzo(b)fluoranthene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Benzo(ghi)perylene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Benzo(k)fluoranthene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Chrysene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Di benzo(a,h)anthracene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Fluoranthene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Fluorene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Indeno(1,2,3-cd)pyrene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Naphthalene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Phenanthrene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Pyrene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Phthalates											
Bis(2-ethylhexyl) phthalate	<200	<100	<100	<200	<200	<200	<200	<200	<200	TM157	<100 ug/kg
Butylbenzyl phthalate	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Di-n-butyl phthalate	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Di-n-Octyl phthalate	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Diethyl phthalate	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Dimethyl phthalate	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Other Semi-volatiles											
1,2-Dichlorobenzene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
1,2,4-Trichlorobenzene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg

All results expressed on a dry weight basis.

Date 30.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 > Shown on prev. report

Job Number: 08/17457/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5309

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93851	93853	93855	93857	93859	93861	93863	93865	93867	Method Code	LoD/Units
Depth (m)	BH23 WC1	BH23 WC2	BH23 WC3	BH23 WC4	BH10A WC3	BH10A WC4	BH10A WC5	BH10A WC1	BH10A WC2		
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID		
Sampled Date	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08		
Sample Received Date	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08		
Batch	1	1	1	1	1	1	1	1	1		
Sample Number(s)	1-4	5-8	9-12	13-15,21	16,22-23,34	17-20	25,28,31,33	26,29-30,32	24,27,35-36		
Other Semi-volatiles (cont)											
1,3-Dichlorobenzene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
1,4-Dichlorobenzene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
2-Nitroaniline	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
2,4-Dinitrotoluene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
2,6-Dinitrotoluene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
3-Nitroaniline	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
4-Bromophenylphenylether	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
4-Chloroaniline	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
4-Chlorophenylphenylether	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
4-Nitroaniline	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Azobenzene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Bis(2-chloroethoxy)methane	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Bis(2-chloroethyl)ether	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Carbazole	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Dibenzofuran	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Hexachlorobenzene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Hexachlorobutadiene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Hexachlorocyclopentadiene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Hexachloroethane	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Isophorone	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
N-nitrosodi-n-propylamine	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg
Nitrobenzene	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM157	<100 ug/kg

All results expressed on a dry weight basis.

Date 30.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 > Shown on prev. report

Job Number: 08/17457/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5309

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93851 BH23 WC1	93853 BH23 WC2	93855 BH23 WC3	93857 BH23 WC4	93859 BH10A WC3	93861 BH10A WC4	93863 BH10A WC5	93865 BH10A WC1	93867 BH10A WC2	Method Code	LoD/Units
Depth (m)	5.9	7.0	8.0	8.9	5.2	6.0	7.5	4.25	4.6		
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID		
Sampled Date	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08		
Sample Received Date	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08		
Batch	1	1	1	1	1	1	1	1	1		
Sample Number(s)	1-4	5-8	9-12	13-15,21	16,22-23,34	17-20	25,28,31,33	26,29-30,32	24,27,35-36		
Volatile Organic Compounds											
Dichlorodifluoromethane	<4	<4	<4	<4	<4	<4	<4	<4	<4	TM116 ^d	<4 ug/kg
Chloromethane	<7	<7	<7	<7	<7	<7	<7	<7	<7	TM116 ^d	<7 ug/kg
Vinyl Chloride	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM116 ^d _M	<10 ug/kg
Bromomethane	<13	<13	<13	<13	<13	<13	<13	<13	<13	TM116 ^d	<13 ug/kg
Chloroethane	<14	<14	<14	<14	<14	<14	<14	<14	<14	TM116 ^d	<14 ug/kg
Trichlorofluoromethane	<6	<6	<6	<6	<6	<6	<6	<6	<6	TM116 ^d _M	<6 ug/kg
trans-1,2-Dichloroethene	<11	<11	<11	<11	<11	<11	<11	<11	<11	TM116 ^d	<11 ug/kg
Dichloromethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM116 ^d	<10 ug/kg
Carbon Disulphide	<7	<7	<7	<7	<7	<7	<7	<7	<7	TM116 ^d _M	<7 ug/kg
1,1-Dichloroethene	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM116 ^d _M	<10 ug/kg
1,1-Dichloroethane	<8	<8	<8	<8	<8	<8	<8	<8	<8	TM116 ^d _M	<8 ug/kg
Methyl Tertiary Butyl Ether	<11	<11	<11	<11	<11	<11	<11	<11	<11	TM116 ^d	<11 ug/kg
cis-1,2-Dichloroethene	<5	<5	<5	<5	<5	<5	<5	<5	<5	TM116 ^d _M	<5 ug/kg
Bromochloromethane	<14	<14	<14	<14	<14	<14	<14	<14	<14	TM116 ^d	<14 ug/kg
Chloroform	<8	<8	<8	<8	<8	<8	<8	<8	<8	TM116 ^d _M	<8 ug/kg
2,2-Dichloropropane	<12	<12	<12	<12	<12	<12	<12	<12	<12	TM116 ^d	<12 ug/kg
1,2-Dichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5	TM116 ^d	<5 ug/kg
1,1,1-Trichloroethane	<7	<7	<7	<7	<7	<7	<7	<7	<7	TM116 ^d _M	<7 ug/kg
1,1-Dichloropropene	<11	<11	<11	<11	<11	<11	<11	<11	<11	TM116 ^d _M	<11 ug/kg
Benzene	<9	<9	<9	<9	<9	<9	<9	<9	<9	TM116 ^d _M	<9 ug/kg
Carbontetrachloride	<14	<14	<14	<14	<14	<14	<14	<14	<14	TM116 ^d _M	<14 ug/kg
Dibromomethane	<9	<9	<9	<9	<9	<9	<9	<9	<9	TM116 ^d	<9 ug/kg
1,2-Dichloropropane	<12	<12	<12	<12	<12	<12	<12	<12	<12	TM116 ^d _M	<12 ug/kg
Bromodichloromethane	<7	<7	<7	<7	<7	<7	<7	<7	<7	TM116 ^d _M	<7 ug/kg
Trichloroethene	<9	<9	<9	<9	<9	<9	<9	<9	<9	TM116 ^d _M	<9 ug/kg
cis-1,3-Dichloropropene	<14	<14	<14	<14	<14	<14	<14	<14	<14	TM116 ^d _M	<14 ug/kg
trans-1,3-Dichloropropene	<14	<14	<14	<14	<14	<14	<14	<14	<14	TM116 ^d _M	<14 ug/kg
1,1,2-Trichloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM116 ^d	<10 ug/kg
Toluene	<5	<5	<5	<5	<5	<5	<5	<5	<5	TM116 ^d _M	<5 ug/kg
1,3-Dichloropropane	<7	<7	<7	<7	<7	<7	<7	<7	<7	TM116 ^d	<7 ug/kg

All results expressed on a dry weight basis.

Date 30.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17457/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5309

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93851 BH23 WC1	93853 BH23 WC2	93855 BH23 WC3	93857 BH23 WC4	93859 BH10A WC3	93861 BH10A WC4	93863 BH10A WC5	93865 BH10A WC1	93867 BH10A WC2	Method Code	LoD/Units
Depth (m)	5.9	7.0	8.0	8.9	5.2	6.0	7.5	4.25	4.6		
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID		
Sampled Date	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08		
Sample Received Date	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08		
Batch	1	1	1	1	1	1	1	1	1		
Sample Number(s)	1-4	5-8	9-12	13-15,21	16,22-23,34	17-20	25,28,31,33	26,29-30,32	24,27,35-36		
Volatile Organic Compounds (cont)											
Dibromochloromethane	<13	<13	<13	<13	<13	<13	<13	<13	<13	TM116 ^d	<13 ug/kg
1,2-Dibromoethane	<12	<12	<12	<12	<12	<12	<12	<12	<12	TM116 ^d	<12 ug/kg
Tetrachloroethene	<5	<5	<5	<5	<5	<5	<5	<5	<5	TM116 ^d	<5 ug/kg
1,1,1,2-Tetrachloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM116 ^d _M	<10 ug/kg
Chlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	TM116 ^d _M	<5 ug/kg
Ethylbenzene	<4	<4	<4	<4	<4	<4	<4	<4	<4	TM116 ^d	<4 ug/kg
p/m-Xylene	<14	<14	<14	<14	<14	<14	<14	<14	<14	TM116 ^d	<14 ug/kg
Bromoform	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM116 ^d	<10 ug/kg
Styrene	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM116 ^d	<10 ug/kg
1,1,2,2-Tetrachloroethane	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM116 ^d	<10 ug/kg
o-Xylene	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM116 ^d	<10 ug/kg
1,2,3-Trichloropropane	<17	<17	<17	<17	<17	<17	<17	<17	<17	TM116 ^d	<17 ug/kg
Isopropylbenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	TM116 ^d	<5 ug/kg
Bromobenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM116 ^d _M	<10 ug/kg
2-Chlorotoluene	<9	<9	<9	<9	<9	<9	<9	<9	<9	TM116 ^d	<9 ug/kg
Propylbenzene	<11	<11	<11	<11	<11	<11	<11	<11	<11	TM116 ^d	<11 ug/kg
4-Chlorotoluene	<12	<12	<12	<12	<12	<12	<12	<12	<12	TM116 ^d	<12 ug/kg
1,2,4-Trimethylbenzene	<9	<9	<9	<9	<9	<9	<9	<9	<9	TM116 ^d	<9 ug/kg
4-Isopropyltoluene	<11	<11	<11	<11	<11	<11	<11	<11	<11	TM116 ^d	<11 ug/kg
1,3,5-Trimethylbenzene	<8	<8	<8	<8	<8	<8	<8	<8	<8	TM116 ^d	<8 ug/kg
1,2-Dichlorobenzene	<12	<12	<12	<12	<12	<12	<12	<12	<12	TM116 ^d _M	<12 ug/kg
1,4-Dichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5	<5	TM116 ^d _M	<5 ug/kg
sec-Butylbenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM116 ^d	<10 ug/kg
tert-Butylbenzene	<12	<12	<12	<12	<12	<12	<12	<12	<12	TM116 ^d	<12 ug/kg
1,3-Dichlorobenzene	<6	<6	<6	<6	<6	<6	<6	<6	<6	TM116 ^d	<6 ug/kg
n-Butylbenzene	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM116 ^d	<10 ug/kg
1,2-Dibromo-3-chloropropane	<14	<14	<14	<14	<14	<14	<14	<14	<14	TM116 ^d	<14 ug/kg
1,2,4-Trichlorobenzene	<6	<6	<6	<6	<6	<6	<6	<6	<6	TM116 ^d	<6 ug/kg
Naphthalene	<13	<13	<13	<13	<13	<13	<13	<13	<13	TM116 ^d	<13 ug/kg
1,2,3-Trichlorobenzene	<11	<11	<11	<11	<11	<11	<11	<11	<11	TM116 ^d	<11 ug/kg

All results expressed on a dry weight basis.

Date 30.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17457/02/01
Client: Envirolab
Client Ref. No.: 722201-5309

Matrix: LEACHATE
Location: SIZEWELL C
Client Contact: Envirolab Data

Sample Identity	93851 BH23 WC1	93853 BH23 WC2	93855 BH23 WC3	93857 BH23 WC4	93859 BH10A WC3	93861 BH10A WC4	93863 BH10A WC5	93865 BH10A WC1	93867 BH10A WC2	Method Code	LoD/Units
Depth (m)	5.9	7.0	8.0	8.9	5.2	6.0	7.5	4.25	4.6		
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID		
Sampled Date	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08		
Sample Received Date	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08		
Batch	1	1	1	1	1	1	1	1	1		
Sample Number(s)	1-4	5-8	9-12	13-15,21	16,22-23,34	17-20	25,28,31,33	26,29-30,32	24,27,35-36		
Arsenic Dissolved (NRA) (ICP-MS)	22	9.7	16	5.2	2.9	<0.75	1.5	6.4	<0.75	TM152	<0.75 ug/l
Boron Dissolved (NRA) (ICP-MS)	700	200	260	320	67	230	310	170	260	TM152	<20 ug/l
Cadmium Dissolved (NRA) (ICP-MS)	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	TM152	<0.22 ug/l
Chromium Dissolved (NRA) (ICP-MS)	5	6	3	<1	3	<1	<1	3	<1	TM152	<1 ug/l
Copper Dissolved (NRA) (ICP-MS)	5.7	7.7	6.3	2.9	4.7	2.5	3.6	11	5.1	TM152	<1.6 ug/l
Lead Dissolved (NRA) (ICP-MS)	1.4	3.4	2.7	1.1	3.4	0.8	0.5	3.9	1.0	TM152	<0.4 ug/l
Nickel Dissolved (NRA) (ICP-MS)	3.3	5.3	2.7	<1.5	<1.5	<1.5	<1.5	2.5	<1.5	TM152	<1.5 ug/l
Selenium Dissolved (NRA) (ICP-MS)	5	3	3	2	<1	<1	1	2	<1	TM152	<1 ug/l
Vanadium Dissolved (NRA) (ICP-MS)	76	38	58	2	11	4	<1	16	<1	TM152	<1 ug/l
Zinc Dissolved (NRA) (ICP-MS)	69	39	100	82	55	68	85	84	77	TM152	<5 ug/l
Mercury Dissolved (NRA) (CVAF)	0.02	0.02	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	TM183	<0.01 ug/l
Sulphate (NRA)	44	11	41	11	45	65	85	27	59	TM098	<3 mg/l
Phenols Monohydric (NRA)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	TM062	<0.01 mg/l
Total Cyanide (NRA)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	TM153	<0.05 mg/l
pH (NRA)	8.15	8.38	7.54	7.39	7.22	6.99	6.31	7.93	6.86	TM133	<1.00 pH Units

Date 30.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCBRTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17457/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5309

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93851 BH23 WC1	93853 BH23 WC2	93855 BH23 WC3	93857 BH23 WC4	93859 BH10A WC3	93861 BH10A WC4	93863 BH10A WC5	93865 BH10A WC1	93867 BH10A WC2	Method Code	LOD/Units
Depth (m)	5.9	7.0	8.0	8.9	5.2	6.0	7.5	4.25	4.6		
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID		
Sampled Date	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08		
Sample Received Date	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08		
Batch	1	1	1	1	1	1	1	1	1		
Sample Number(s)	1-4	5-8	9-12	13-15,21	16,22-23,34	17-20	25,28,31,33	26,29-30,32	24,27,35-36		
GRO (C4-C12) (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM089	<10 ug/l
MTBE (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM089	<10 ug/l
Benzene (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM089	<10 ug/l
Toluene (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM089	<10 ug/l
Ethyl benzene (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM089	<10 ug/l
m & p Xylene (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM089	<10 ug/l
o Xylene (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM089	<10 ug/l
Aliphatics C5-C6 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM089	<10 ug/l
Aliphatics >C6-C8 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM089	<10 ug/l
Aliphatics >C8-C10 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM089	<10 ug/l
Aliphatics >C10-C12 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM089	<10 ug/l
Aliphatics >C12-C16 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM174	<10 ug/l
Aliphatics >C16-C21 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM174	<10 ug/l
Aliphatics >C21-C35 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM174	<10 ug/l
Total Aliphatics C5-C35 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM61/89	<10 ug/l
Aromatics C6-C7 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM089	<10 ug/l
Aromatics >C7-C8 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM089	<10 ug/l
Aromatics >EC8-EC10 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM089	<10 ug/l
Aromatics >EC10-EC12 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM089	<10 ug/l
Aromatics >EC12-EC16 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM174	<10 ug/l
Aromatics >EC16-EC21 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM174	<10 ug/l
Aromatics >EC21-EC35 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM174	<10 ug/l
Total Aromatics C6-C35 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM61/89	<10 ug/l
THF (Aliphatics and Aromatics C5-C15) (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM61/89	<10 ug/l

Date 30.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 > Shown on prev. report

Job Number: 08/17457/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5309

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93851 BH23 WC1	93853 BH23 WC2	93855 BH23 WC3	93857 BH23 WC4	93859 BH10A WC3	93861 BH10A WC4	93863 BH10A WC5	93865 BH10A WC1	93867 BH10A WC2	Method Code	LoD/Units
Depth (m)	5.9	7.0	8.0	8.9	5.2	6.0	7.5	4.25	4.5		
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID		
Sampled Date	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08		
Sample Received Date	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08		
Batch	1	1	1	1	1	1	1	1	1		
Sample Number(s)	1-4	5-8	9-12	13-15,21	16,22-23,34	17-20	25,28,31,33	26,29-30,32	24,27,35-36		
PAH by GCMS											
Naphthalene (NRA)	<100	<100	<100	<100	<100	<100	<100	<100	<100	TM178	<100 ng/l
Acenaphthylene (NRA)	<11	<11	<11	<11	<11	<11	<11	<11	<11	TM178	<11 ng/l
Acenaphthene (NRA)	<15	<15	<15	<15	<15	<15	<15	<15	<15	TM178	<15 ng/l
Fluorene (NRA)	<14	<14	<14	<14	<14	<14	<14	<14	<14	TM178	<14 ng/l
Phenanthrene (NRA)	<22	<22	<22	57	48	<22	<22	<22	<22	TM178	<22 ng/l
Anthracene (NRA)	<15	<15	<15	<15	<15	<15	<15	<15	<15	TM178	<15 ng/l
Fluoranthene (NRA)	<17	<17	26	53	83	<17	<17	25	19	TM178	<17 ng/l
Pyrene (NRA)	<15	<15	20	45	72	<15	<15	20	16	TM178	<15 ng/l
Benz(a)anthracene (NRA)	<17	<17	<17	19	<17	<17	<17	<17	<17	TM178	<17 ng/l
Chrysene (NRA)	<13	<13	<13	21	<13	<13	<13	<13	<13	TM178	<13 ng/l
Benzo(b)fluoranthene (NRA)	<23	<23	<23	28	<23	<23	<23	<23	<23	TM178	<23 ng/l
Benzo(k)fluoranthene (NRA)	<27	<27	<27	<27	<27	<27	<27	<27	<27	TM178	<27 ng/l
Benzo(a)pyrene (NRA)	<9	<9	<9	20	<9	<9	<9	<9	<9	TM178	<9 ng/l
Indeno(1,2,3cd)pyrene (NRA)	<14	<14	<14	<14	<14	<14	<14	<14	<14	TM178	<14 ng/l
Dibenzo(ah)anthracene (NRA)	<16	<16	<16	<16	<16	<16	<16	<16	<16	TM178	<16 ng/l
Benzo(ghi)perylene (NRA)	<16	<16	<16	<16	<16	<16	<16	<16	<16	TM178	<16 ng/l
PAH 16 Total (NRA)	<100	<100	<100	240	200	<100	<100	<100	<100	TM178	<100 ng/l

Date 30.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17457/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5309

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93851 BH23 WC1	93853 BH23 WC2	93855 BH23 WC3	93857 BH23 WC4	93859 BH10A WC3	93861 BH10A WC4	93863 BH10A WC5	93865 BH10A WC1	93867 BH10A WC2	Method Code	LoD/Units
Depth (m)	5.9	7.0	8.0	8.9	5.2	6.0	7.5	4.25	4.6		
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID		
Sampled Date	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08		
Sample Received Date	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08		
Batch	1	1	1	1	1	1	1	1	1		
Sample Number(s)	1-4	5-8	9-12	13-15,21	16,22-23,34	17-20	25,28,31,33	26,29-30,32	24,27,35-36		
OCP/OPP											
Dichlorvos (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l
Mevinphos (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l
Alpha-BHC (Lindane) (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l
Beta-BHC (Lindane) (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l
Gamma-BHC (Lindane) (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l
Diazinon (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l
Methyl Parathion (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l
Heptachlor (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l
Fenitrothion (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l
Malathion (NRA)	<25	<25	40	<25	<25	<25	<25	<25	<25	TM144/145	<10 ng/l
Aldrin (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l
Parathion (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l
Heptachlor Epoxide (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l
Endosulphan I (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l
p,p'-DDE (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l
Dieldrin (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l
Endrin (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l
Endosulphan II (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l
p,p'-TDE(DDD) (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l
Ethion (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l
p,p'-DDT (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l
Endosulphan sulphate (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l
p,p'-Methoxychlor (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l
Azinphos methyl (NRA)	<10	<10	<10	<10	<10	<10	<10	<10	<10	TM144/145	<10 ng/l

Date 30.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17457/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5309

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93851	93853	93855	93857	93859	93861	93863	93865	93867	Method Code	LoD/Units
Depth (m)	BH23 WC1	BH23 WC2	BH23 WC3	BH23 WC4	BH10A WC3	BH10A WC4	BH10A WC5	BH10A WC1	BH10A WC2		
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID		
Sampled Date	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08		
Sample Received Date	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08		
Batch	1	1	1	1	1	1	1	1	1		
Sample Number(s)	1-4	5-8	9-12	13-15,21	16,22-23,34	17-20	25,28,31,33	26,29-30,32	24,27,35-36		
SVOC by GCMS											
Phenols											
2-Chlorophenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
2-Methylphenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
2-Nitrophenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
2,4-Dichlorophenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
2,4-Dimethylphenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
2,4,5-Trichlorophenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
2,4,6-Trichlorophenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
4-Chloro-3-methylphenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
4-Methylphenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
4-Nitrophenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
Pentachlorophenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
Phenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l

Date 30.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 > Shown on prev. report

Job Number: 08/17457/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5309

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93851 BH23 WC1	93853 BH23 WC2	93855 BH23 WC3	93857 BH23 WC4	93859 BH10A WC3	93861 BH10A WC4	93863 BH10A WC5	93865 BH10A WC1	93867 BH10A WC2	Method Code	LoD/Units
Depth (m)	5.9	7.0	8.0	8.9	5.2	6.0	7.5	4.25	4.6		
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID		
Sampled Date	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08		
Sample Received Date	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08		
Batch	1	1	1	1	1	1	1	1	1		
Sample Number(s)	1-4	5-8	9-12	13-15,21	16,22-23,34	17-20	25,28,31,33	26,29-30,32	24,27,35-36		
PAHs											
2-Chloronaphthalene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
2-Methylnaphthalene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
Phthalates											
Bis(2-ethylhexyl) phthalate (NRA)	<4	<4	6	<4	3	<4	<2	5	<2	TM176	<1 ug/l
Butylbenzyl phthalate (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
Di-n-butyl phthalate (NRA)	2	<2	2	2	2	<2	3	<2	2	TM176	<1 ug/l
Di-n-Octyl phthalate (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
Diethyl phthalate (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
Dimethyl phthalate (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
Other Semi-volatiles											
1,2-Dichlorobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
1,2,4-Trichlorobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
1,3-Dichlorobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
1,4-Dichlorobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
2-Nitroaniline (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
2,4-Dinitrotoluene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
2,6-Dinitrotoluene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
3-Nitroaniline (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
4-Bromophenylphenylether (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
4-Chloroaniline (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
4-Chlorophenylphenylether (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
4-Nitroaniline (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
Azobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
Bis(2-chloroethoxy)methane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
Bis(2-chloroethyl)ether (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
Carbazole (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
Dibenzofuran (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l
Toxachlorobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM176	<1 ug/l

Date 30.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17457/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5309

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93851 BH23 WC1	93853 BH23 WC2	93855 BH23 WC3	93857 BH23 WC4	93859 BH10A WC3	93861 BH10A WC4	93863 BH10A WC5	93865 BH10A WC1	93867 BH10A WC2	Method Code	LoD/Units
Depth (m)	5.9	7.0	8.0	8.9	5.2	6.0	7.5	4.25	4.6		
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID		
Sampled Date	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08		
Sample Received Date	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08		
Batch	1	1	1	1	1	1	1	1	1		
Sample Number(s)	1-4	5-8	9-12	13-15,21	16,22-23,34	17-20	25,28,31,33	26,29-30,32	24,27,35-36		
Volatile Organic Compounds											
Dichlorodifluoromethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Chloromethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Vinyl Chloride (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Bromomethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Chloroethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Trichlorofluoromethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
trans-1-2-Dichloroethene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Dichloromethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Carbon Disulphide (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
1,1-Dichloroethene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
1,1-Dichloroethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Methyl Tertiary Butyl Ether (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
cis-1-2-Dichloroethene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Bromochloromethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Chloroform (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
2,2-Dichloropropane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
1,2-Dichloroethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
1,1,1-Trichloroethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
1,1-Dichloropropene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Benzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Carbontetrachloride (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Dibromomethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
1,2-Dichloropropane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Bromodichloromethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Trichloroethene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
cis-1-3-Dichloropropene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
trans-1-3-Dichloropropene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
1,1,2-Trichloroethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Toluene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
1,3-Dichloropropane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l

Date 30.10.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17457/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5309

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	93851 BH23 WC1	93853 BH23 WC2	93855 BH23 WC3	93857 BH23 WC4	93859 BH10A WC3	93861 BH10A WC4	93863 BH10A WC5	93865 BH10A WC1	93867 BH10A WC2	Method Code	LoD/Units
Depth (m)	5.9	7.0	8.0	8.9	5.2	6.0	7.5	4.25	4.6		
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID		
Sampled Date	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08	16.10.08		
Sample Received Date	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08	20.10.08		
Batch	1	1	1	1	1	1	1	1	1		
Sample Number(s)	1-4	5-8	9-12	13-15,21	16,22-23,34	17-20	25,28,31,35	26,29-30,32	24,27,35-36		
Volatile Organic Compounds (cont)											
Dibromochloromethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
1,2-Dibromoethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Tetrachloroethene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
1,1,1,2-Tetrachloroethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Chlorobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Ethylbenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
p,m-Xylene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Bromoform (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Styrene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
1,1,2,2-Tetrachloroethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
o-Xylene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
1,2,3-Trichloropropane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Isopropylbenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Bromobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
2-Chlorotoluene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Propylbenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
4-Chlorotoluene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
1,2,4-Trimethylbenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
4-Isopropyltoluene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
1,3,5-Trimethylbenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
1,2-Dichlorobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
1,4-Dichlorobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
sec-Butylbenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
tert-Butylbenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
1,3-Dichlorobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
n-Butylbenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
1,2-Dibromo-3-chloropropane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
1,2,4-Trichlorobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
Naphthalene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l
1,2,3-Trichlorobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1	<1	TM208	<1 ug/l

Date 30.10.2008

ALcontrol Laboratories Analytical Services

Table Of Results - Appendix

Job Number: 08/17457/02/01
Client: Envirolab
Client Ref. No.: 722201-5309

Report Key :

NDP	No Determination Possible	*	Subcontracted test
NFD	No Fibres Detected	»	Result previously reported (Incremental reports only)
#	ISO 17025 accredited	M	MCERTS Accredited
PFD	Possible Fibres Detected	EC	Equivalent Carbon (Aromatics C8-C35)

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10⁻⁷

Note: Method detection limits are not always achievable due to various circumstances beyond our control.

Summary of Method Codes contained within report :

Method No.	Reference	Description	ISO 17025 Accredited	MCERTS Accredited	Wet/Dry Sample ¹	Surrogate Corrected
TM001	In - house Method	Screening of Soils for Fibres			WET	
TM018	BS 1377: Part 3 1990	Determination of Loss on Ignition	✓	✓	WET	
TM062	MEWAM BOOK 124 1988.HMSO/ Method 17.7, Second Site property, March 2003	Determination of Phenolic compounds by HPLC with electro-chemical detection			NA	
TM062	MEWAM BOOK 124 1988.HMSO/ Method 17.7, Second Site property, March 2003	Determination of Phenolic compounds by HPLC with electro-chemical detection	✓	✓	WET	
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GR0) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)			NA	
TM098	Method 4500E, AWWA/APHA, 20th Ed., 1999	Determination of Sulphate using the Kone Analyser			NA	
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS			WET	
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS	✓		WET	
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS	✓	✓	WET	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer			DRY	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer	✓	✓	DRY	
TM132	In - house Method	ELTRA CS800 Operators Guide	✓		DRY	
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter			NA	
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter	✓	✓	WET	

¹ Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

ALcontrol Laboratories Analytical Services

Table Of Results - Appendix

Job Number: 08/17457/02/01
Client: Envirolab
Client Ref. No.: 722201-5309

Report Key :

NDP No Determination Possible
 NFD No Fibres Detected
 # ISO 17025 accredited
 PFD Possible Fibres Detected

* Subcontracted test
 » Result previously reported (Incremental reports only)
 M MCERTS Accredited
 EC Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control.

Summary of Method Codes contained within report :

Method No.	Reference	Description	ISO 17025 Accredited	MCERTS Accredited	Wet/Dry Sample ¹	Surrogate Corrected
TM136	Method 17.10, Second Site property, March 2003	Determination of Sulphur by HPLC	✓	✓	DRY	
TM144/145		Organochlorine and Organophosphorus pesticides by GC-MS			DRY	
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS			NA	
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the "Skalar SANS+ System" Segmented Flow Analyser			NA	
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the "Skalar SANS+ System" Segmented Flow Analyser	✓	✓	WET	
TM157		Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone			WET	
TM174		Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID			NA	
TM176		Determination of SVOCs in Water by GCMS			NA	
TM178	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters			NA	
TM183	BS EN 23506:2002, (BS 6068-2:74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry			NA	
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters			NA	
TM61/89		see TM061 and TM089 for details			NA	

¹ Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17618/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5309

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Subcon

Sample Identity	93848 BH19A	93869 BH10A	93870 BH03	93873 BH16	93876 BH8						Method Code	LoD/Units
Depth (m)	8.90	7.00	6.90	7.20	5.80							
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID							
Sampled Date	15.10.08	15.10.08	14.10.08	14.10.08	13.10.08							
Sample Received Date	22.10.08	22.10.08	22.10.08	22.10.08	22.10.08							
Batch	1	1	1	1	1							
Sample Number(s)	2	3	4	5	6							
Arsenic	10	<3	<3	5	10						TM129 ^M	<3.0 mg/kg
Cadmium	<0.2	<0.2	<0.2	<0.2	<0.2						TM129	<0.2 mg/kg
Chromium	8.1	4.7	5.8	17	22						TM129 ^M	<4.5 mg/kg
Copper	<6	<6	<6	11	9						TM129 ^M	<6 mg/kg
Lead	4	6	2	10	12						TM129 ^M	<2 mg/kg
Mercury	<0.4	<0.4	<0.4	<0.4	<0.4						TM129 ^M	<0.4 mg/kg
Nickel	7.9	5.9	6.5	16	21						TM129 ^M	<0.9 mg/kg
Zinc	21	19	7.8	42	45						TM129 ^M	<2.5 mg/kg
Total Alkalinity as CaCO ₃	210	55	75	750	63						TM043	<10 mg/kg

All results expressed on a dry weight basis.

Date 06.11.2008

ALcontrol Laboratories Analytical Services Table Of Results - Appendix

Job Number: 08/17618/02/01
Client: Envirolab
Client Ref. No.: 722201-5309

Report Key :

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10⁻⁷

- NDP No Determination Possible * Subcontracted test
- NFD No Fibres Detected » Result previously reported (Incremental reports only)
- # ISO 17025 accredited M MCERTS Accredited
- PFD Possible Fibres Detected EC Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control.

Summary of Method Codes contained within report :

Method No.	Reference	Description	ISO 17025 Accredited	MCERTS Accredited	Wet/Dry Sample ¹	Surrogate Corrected
TM043	Method 2320B, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part 109 1984	Determination of alkalinity in aqueous samples			WET	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer			DRY	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer	✓	✓	DRY	

¹ Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

Date: 14 January 2009
Your Ref: 722201 - PO. 6812
Our Ref: 722201-(5309)-031
Project Manager: Steve Mackereth
Report to: John Wild

Envirolab
Units 7 & 8
Sandpits Business Park
Mottram Road
Hyde
Cheshire
SK14 3AR

Supplemental to Final Test Report 722201-(5309)-030

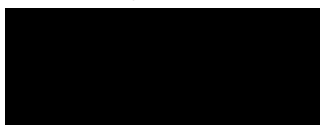
Sample(s) of Soil from Sizewell C.
Received from Structural Soils Ltd
The Old School House, Stillhouse Lane, Bedminster, Bristol, BS3 4EB

Date of receipt: 17 October 2008
Date analysis commenced: 17 October 2008
Date analysis completed: 08 January 2009

Method Statement

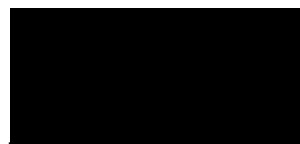
Speclated TPH analysis is performed in accordance with procedures A-T-022 using GC-MS with Head Space & A-T-023 using GC-FID.
PCB analysis is performed in accordance with procedures A-T-004 and A-T-005.
PAH analysis is performed in accordance with procedure A-T-019.
Loss on drying analysis is performed in accordance with procedure A-T-020.
Subcontract analysis was submitted to a laboratory on Envirolab's approved vendors list.
A copy of the report is attached, UKAS/MCERTS status is detailed on the report.

Prepared by:



Thi McNabb
Reporting Analytical Chemist

Approved by:



Gill Scott
Laboratory Manager



Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
Tests marked "" in this report are not included in the UKAS Accreditation Schedule for Envirolab.
Analytical results reflect the quality of the sample at the time of analysis only.



Report No. 722201-031-(5309)
Site Name: Sizewell C
Date: 14/01/2009

ALcontrol Laboratories Analytical Services Table Of Results - Appendix

Job Number: 08/17618/02/01
Client: Envirolab
Client Ref. No.: 722201-5309

Report Key :

NDP No Determination Possible * Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10⁻⁷
 ACM Asbestos Containing Material » Subcontracted test
 # ISO 17025 accredited M Result previously reported (Incremental reports only)
 EC Equivalent Carbon (Aromatics C8-C35) MCERTS Accredited

Note: Method detection limits are not always achievable due to various circumstances beyond our control.

Summary of Method Codes contained within report :

Method No.	Reference	Description	ISO 17025 Accredited	MCERTS Accredited	Wet/Dry Sample 1	Surrogate Corrected
TM018	BS 1377: Part 3 1990	Determination of Loss on Ignition	✓	✓	WET	
TM083	Method 3111, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 7610	Determination of Sodium and Potassium by Flame Photometer			DRY	
TM097	Modified: US EPA Method 325.1 & 325.2	Determination of Chloride using the Kone Analyser	✓	✓	DRY	
TM120	Method 2510B, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part 9:1970	Determination of Electrical Conductivity using a Conductivity Meter	✓		DRY	
TM133	BS 1377: Part 3 1990:BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter	✓	✓	WET	

¹ Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

Date: 11 November 2008
Your Ref: 722201 - PO. 6812
Our Ref: 722201-(5367)-040
Project Manager: Steve Mackereth
Report to: John Wild

Envirolab
Units 7 & 8
Sandpits Business Park
Mottram Road
Hyde
Cheshire
SK14 3AR

Final Test Report

Sample(s) of Soil from Sizewell C.
Received from Structural Soils Ltd
The Old School House, Stillhouse Lane, Bedminster, Bristol, BS3 4EB

Date of receipt: 23 October 2008
Date analysis commenced: 23 October 2008
Date analysis completed: 11 November 2008

Method Statement

Speciated TPH analysis is performed in accordance with procedures A-T-022 using GC-MS with Head Space & A-T-023 using GC-FID.

PCB analysis is performed in accordance with procedures A-T-004 and A-T-005.

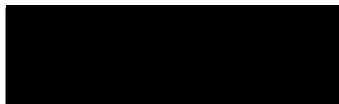
PAH analysis is performed in accordance with procedure A-T-019.

Loss on drying analysis is performed in accordance with procedure A-T-020.

Subcontract analysis was submitted to a laboratory on Envirolab's approved vendors list.

A copy of the report is attached, UKAS/MCERTS status is detailed on the report.

Prepared by:



Thi McNabb
Reporting Analytical Chemist

Approved by:



Louise Adams
Associate Director - Operations



Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
Tests marked "" in this report are not included in the UKAS Accreditation Schedule for Envirolab.
Analytical results reflect the quality of the sample at the time of analysis only.



Envirolab Ref.	PROCEDURE	ISO17085	ACCERTS	94263	94265								
Location				BH26 WC1	BH26 WC2								
Depth (m)				4.20	5.40								
Sample Ref				-	-								
Sample Type				-	-								
MTBE _n	A-T-022	Y	N	<0.01	<0.01								
Benzene _n	A-T-022	Y	N	<0.01	<0.01								
Toluene _n	A-T-022	Y	N	<0.01	<0.01								
Ethyl Benzene _n	A-T-022	Y	N	<0.01	0.01								
m & p Xylene _n	A-T-022	Y	N	0.01	0.01								
o Xylene _n	A-T-022	Y	N	0.01	0.01								
Aliphatics C5-C6 _n	A-T-022	Y	N	0.01	0.01								
Aliphatics >C6-C8 _n	A-T-022	Y	N	<0.01	<0.01								
Aliphatics >C8-C10 _n	A-T-022	Y	N	<0.01	<0.01								
Aliphatics >C10-C12 _n	A-T-023	Y	N	<0.1	<0.1								
Aliphatics >C12-C16 _n	A-T-023	Y	N	<0.1	<0.1								
Aliphatics >C16-C21 _n	A-T-023	Y	N	<0.1	<0.1								
Aliphatics >C21-C35 _n	A-T-023	Y	N	<0.1	<0.1								
Total Aliphatics		Y	N	<0.1	<0.1								
Aromatics >C5-C7 _n	A-T-022	Y	N	<0.01	<0.01								
Aromatics >C7-C8 _n	A-T-022	Y	N	<0.01	<0.01								
Aromatics >C8-C9 _n	A-T-022	Y	N	0.02	0.03								
Aromatics >C9-C10 _n	A-T-022	Y	N	<0.01	<0.01								
Aromatics >C10-C12 _n	A-T-023	Y	N	<0.1	<0.1								
Aromatics >C12-C16 _n	A-T-023	Y	N	<0.1	<0.1								
Aromatics >C16-C21 _n	A-T-023	Y	N	<0.1	<0.1								
Aromatics >C21-C35 _n	A-T-023	Y	N	2.2	<0.1								
Total Aromatics		Y	N	2.22	<0.1								
TPH (Aliphatics & Aromatics)		Y	N	2.23	<0.1								

Table 1 - Soil Speciated TPH Results (mg/kg)

EnviroLab Ref.	PROCEDURE	ISO-17025	MCERTS	94263	94265								
Location				BH28 WC1	BH28 WC2								
Depth (m)				4.20	5.40								
Sample Ref				-	-								
Sample Type				-	-								
PCB BZ 28 _o	A-T-004 A-T-005	Y	Y	<0.005	<0.005								
PCB BZ 52 _o	A-T-004 A-T-005	Y	Y	<0.005	<0.005								
PCB BZ 101 _o	A-T-004 A-T-005	Y	Y	<0.005	<0.005								
PCB BZ 118 _o	A-T-004 A-T-005	Y	Y	<0.006	<0.005								
PCB BZ 138 _o	A-T-004 A-T-005	Y	Y	<0.005	<0.005								
PCB BZ 163 _o	A-T-004 A-T-005	Y	Y	<0.005	<0.005								
PCB BZ 180 _o	A-T-004 A-T-005	Y	Y	<0.005	<0.005								

Table 2 - Soil PCB Results (mg/kg, expressed on a dry weight basis)

Envirolab Ref.	PROCEDURE	ISO17025	NCERT8	94283	94285								
Location				BH28 WC1	BH28 WC2								
Depth (m)				4.20	5.40								
Sample Ref				-	-								
Sample Type				-	-								
Naphthalene _n "	A-T-019	N	N	0.01	<0.01								
Acenaphthylene _n "	A-T-019	N	N	<0.01	<0.01								
Acenaphthene _n "	A-T-019	N	N	<0.01	<0.01								
Fluorene _n "	A-T-019	N	N	<0.01	<0.01								
Phenanthrene _n "	A-T-019	N	N	<0.01	<0.01								
Anthracene _n "	A-T-019	Y	N	<0.01	<0.01								
Fluoranthene _n "	A-T-019	Y	N	<0.01	<0.01								
Pyrene _n "	A-T-019	Y	N	0.01	<0.01								
Benzo [a] anthracene _n "	A-T-019	N	N	<0.01	<0.01								
Chrysene _n "	A-T-019	N	N	<0.01	<0.01								
Benzo [b] fluoranthene _n Benzo [k] fluoranthene # _n "	A-T-019	Y	N	<0.01	<0.01								
Benzo [a] pyrene _n "	A-T-019	N	N	0.02	0.03								
Indeno [123-cd] pyrene _n "	A-T-019	Y	N	<0.01	<0.01								
Dibenz [ah] anthracene _n "	A-T-019	Y	N	<0.01	<0.01								
Benzo [ghi] perylene _n "	A-T-019	Y	N	<0.01	<0.01								
Total 19 PAH Reported		N	N	0.04	0.03								

Due to coelution Benzo [b] fluoranthene and Benzo [k] fluoranthene are reported as one value.

Table 3 - Soil PAH Results (mg/kg, expressed on a dry weight basis)

Envirolab Ref.	94263	94265								
Location	BH28 WC1	BH28 WC2								
Depth (m)	4.20	5.40								
Sample Ref	-	-								
Sample Type	-	-								
Type	Clay	Loam								
Colour	Mixed	Black								
Consistency	Soft	Loose								
Some Stones	Yes	Yes								
>50 Bones	No	No								
Some Vegetation	Yes	Yes								
Very Wet	No	No								
Strong Odour	No	No								

Table 4 - Soil Matrix Table

Appendix

Code	Description
+	Increased detection limit due to sample interference
#	Increased detection limit due to sample dilution
\$	Analysis subcontracted
IS	Insufficient sample for analysis
IS-QC	Insufficient sample to retest following QC fail
NDP	No determination possible
~	Sample type outside the scope of our MCERTS accreditation since matrix not included in method validation
"	Analytes are associated with failed AQC targets for MCERTS and/or UKAS.
A	Sample result is not covered under Envirolab's accreditation schedule for MCERTS as the result exceeds the validated range. See notes 1-3.
F	Analysis suffixed "F" were performed on the filtered sample
D	Analysis suffixed "D" were performed on the sample air dried at <30°C
O	Analysis suffixed "O" were performed on the sample oven dried at 95°C
R	Analysis suffixed "R" were performed on the sample as received. Where results are expressed on a dry weight basis, the samples were air dried at 95°C
Notes	
1	For MCERTS the validated range covers up to 15mg/kg for individual PAHs, 200mg/kg for totals.
2	For MCERTS the validated range covers up to 3000mg/kg for Total TPH analysis.
3	For MCERTS the validated range covers up to 0.2mg/kg for individual PCBs, and 1.5mg/kg for the total reported as arador.
4	Natural stones and debris are excluded from analyses
5	Coarse granular material such as concrete, gravel and brick are not MCERTS accredited if they comprise the major part of the sample. Envirolab are currently accredited for MCERTS on soil types Sand, Clay and Loam only

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

° ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17772/02/01
Client: Envirolab
Client Ref. No.: 722201-5367

Matrix: SOLID
Location: SIZEWELL C
Client Contact: Envirolab Data

Sample Identity	94261 BH24	94263 BH28 WC1	94265 BH28 WC2							Method Code	LOD/Units
Depth (m)	7.0	4.2	5.4								
Sample Type	SOLID	SOLID	SOLID								
Sampled Date	21.10.08	21.10.08	21.10.08								
Sample Received Date	24.10.08	24.10.08	24.10.08								
Batch	1	1	1								
Sample Number(s)	1-3	4-6	7-9								
Total Sulphate	-	2700	2800							TM129 [°] _M	<100 mg/kg
Boron Water Soluble	-	4.0	<3.5							TM129 [°] _M	<3.5 mg/kg
Arsenic	12	30	210							TM129 [°] _M	<3.0 mg/kg
Cadmium	<0.2	<0.2	0.6							TM129 [°] _M	<0.2 mg/kg
Chromium	5.5	44	<4.5							TM129 [°] _M	<4.5 mg/kg
Copper	<6	17	9							TM129 [°] _M	<6 mg/kg
Lead	3	21	6							TM129 [°] _M	<2 mg/kg
Mercury	<0.4	<0.4	<0.4							TM129 [°] _M	<0.4 mg/kg
Nickel	5.6	36	7.6							TM129 [°] _M	<0.9 mg/kg
Selenium	-	<3	25							TM129 [°] _M	<3 mg/kg
Vanadium	-	82	69							TM129 [°] _M	<1.5 mg/kg
Zinc	19	93	9.8							TM129 [°] _M	<2.5 mg/kg
Total Alkalinity as CaCO3	<10	-	-							TM043	<10 mg/kg
Phenols Monohydric	-	<0.15	<0.15							TM062 [°] _M	<0.15 mg/kg
Total Cyanide	-	<1	<1							TM153 [°] _M	<1 mg/kg
Asbestos Presence Screen	-	No fibres detected	No fibres detected							TM001	NONE
Elemental Sulphur	-	270	120							TM136 [°] _M	<70 mg/kg
Fraction of Organic Carbon	-	0.047	0.35							TM132 [°] _M	<0.002 NONE
Loss on Ignition	-	9.1	70							TM018 [°] _M	<0.3 %
pH Value	-	7.46	6.53							TM133 [°] _M	<1.00 pH Units

All results expressed on a dry weight basis.

Date 05.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17772/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5367

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	94261 BH24	94263 BH28 WC1	94265 BH28 WC2							Method Code	LoD/Units
Depth (m)	7.0	4.2	5.4								
Sample Type	SOLID	SOLID	SOLID								
Sampled Date	21.10.08	21.10.08	21.10.08								
Sample Received Date	24.10.08	24.10.08	24.10.08								
Batch	1	1	1								
Sample Number(s)	1-3	4-6	7-9								
OCP/OPP											
Dichlorvos	-	<1	<1							TM144/145	<1 ug/kg
Mevinphos	-	<1	<1							TM144/145	<1 ug/kg
Alpha-BHC (Lindane)	-	<1	<1							TM144/145	<1 ug/kg
Beta-BHC (Lindane)	-	<1	<1							TM144/145	<1 ug/kg
Gamma-BHC (Lindane)	-	<1	<1							TM144/145	<1 ug/kg
Diazinon	-	<1	<1							TM144/145	<1 ug/kg
Methyl Parathion	-	<1	<1							TM144/145	<1 ug/kg
Heptachlor	-	<1	<1							TM144/145	<1 ug/kg
Fenitrothion	-	<1	<1							TM144/145	<1 ug/kg
Malathion	-	<1	<1							TM144/145	<1 ug/kg
Aldrin	-	<1	<1							TM144/145	<1 ug/kg
Parathion	-	<1	<1							TM144/145	<1 ug/kg
Heptachlor Epoxide	-	<1	<1							TM144/145	<1 ug/kg
Endosulphan I	-	<1	<1							TM144/145	<1 ug/kg
p,p'-DDE	-	<1	<1							TM144/145	<1 ug/kg
Dieldrin	-	<1	<1							TM144/145	<1 ug/kg
Endrin	-	<1	<1							TM144/145	<1 ug/kg
Endosulphan II	-	<1	<1							TM144/145	<1 ug/kg
p,p'-TDE(DDD)	-	<1	<1							TM144/145	<1 ug/kg
Chion	-	<1	<1							TM144/145	<1 ug/kg
p,p'-DDT	-	<1	<1							TM144/145	<1 ug/kg
Endosulphan sulphate	-	<1	<1							TM144/145	<1 ug/kg
p,p'-Methoxychlor	-	<1	<1							TM144/145	<1 ug/kg
Azinphos methyl	-	<1	<1							TM144/145	<1 ug/kg

All results expressed on a dry weight basis.

Date 05.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17772/02/01
 Client: Envirolab
 Client Ref No.: 722201-5367

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	94261 BH24	94263 BH28 WC1	94265 BH28 WC2								Method Code	Lod/Units
Depth (m)	7.0	4.2	5.4									
Sample Type	SOLID	SOLID	SOLID									
Sampled Date	21.10.08	21.10.08	21.10.08									
Sample Received Date	24.10.08	24.10.08	24.10.08									
Batch	1	1	1									
Sample Number(s)	1-3	4-6	7-9									
SVOC by GCMS												
Phenols												
2-Chlorophenol	-	<100	<100								TM157	<100 ug/kg
2-Methylphenol	-	<100	<100								TM157	<100 ug/kg
2-Nitrophenol	-	<100	<100								TM157	<100 ug/kg
2,4-Dichlorophenol	-	<100	<100								TM157	<100 ug/kg
2,4-Dimethylphenol	-	<100	<100								TM157	<100 ug/kg
2,4,5-Trichlorophenol	-	<100	<100								TM157	<100 ug/kg
2,4,6-Trichlorophenol	-	<100	<100								TM157	<100 ug/kg
4-Chloro-3-methylphenol	-	<100	<100								TM157	<100 ug/kg
4-Methylphenol	-	<100	<100								TM157	<100 ug/kg
4-Nitrophenol	-	<100	<100								TM157	<100 ug/kg
Pentachlorophenol	-	<100	<100								TM157	<100 ug/kg
Phenol	-	<100	<100								TM157	<100 ug/kg

All results expressed on a dry weight basis.

Date 05.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17772/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5367

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	94261 BH24	94263 BH28 WC1	94265 BH28 WC2							Method Code	LOD/Units
Depth (m)	7.0	4.2	5.4								
Sample Type	SOLID	SOLID	SOLID								
Sampled Date	21.10.08	21.10.08	21.10.08								
Sample Received Date	24.10.08	24.10.08	24.10.08								
Batch	1	1	1								
Sample Number(s)	1-3	4-6	7-9								
PAHs											
2-Chloronaphthalene	-	<100	<100							TM157	<100 ug/kg
2-Methylnaphthalene	-	<100	<100							TM157	<100 ug/kg
Acenaphthene	-	<100	<100							TM157	<100 ug/kg
Acenaphthylene	-	<100	<100							TM157	<100 ug/kg
Anthracene	-	<100	<100							TM157	<100 ug/kg
Benzo(a)anthracene	-	<100	<100							TM157	<100 ug/kg
Benzo(a)pyrene	-	<100	<100							TM157	<100 ug/kg
Benzo(b)fluoranthene	-	<100	<100							TM157	<100 ug/kg
Benzo(ghi)perylene	-	<100	<100							TM157	<100 ug/kg
Benzo(k)fluoranthene	-	<100	<100							TM157	<100 ug/kg
Chrysene	-	<100	<100							TM157	<100 ug/kg
Dibenzo(a,h)anthracene	-	<100	<100							TM157	<100 ug/kg
Fluoranthene	-	<100	<100							TM157	<100 ug/kg
Fluorene	-	<100	<100							TM157	<100 ug/kg
Indeno(1,2,3-cd)pyrene	-	<100	<100							TM157	<100 ug/kg
Naphthalene	-	<100	<100							TM157	<100 ug/kg
Phenanthrene	-	<100	<100							TM157	<100 ug/kg
Pyrene	-	<100	<100							TM157	<100 ug/kg
Phthalates											
Bis(2-ethylhexyl) phthalate	-	<100	<100							TM157	<100 ug/kg
Butylbenzyl phthalate	-	<100	<100							TM157	<100 ug/kg
Di-n-butyl phthalate	-	<100	<100							TM157	<100 ug/kg
Di-n-Octyl phthalate	-	<100	<100							TM157	<100 ug/kg
Diethyl phthalate	-	<100	<100							TM157	<100 ug/kg
Dimethyl phthalate	-	<100	<100							TM157	<100 ug/kg
Other Semi-volatiles											
1,2-Dichlorobenzene	-	<100	<100							TM157	<100 ug/kg
1,2,4-Trichlorobenzene	-	<100	<100							TM157	<100 ug/kg

All results expressed on a dry weight basis.

Date 05.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17772/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5367

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	94261 BH24	94263 BH28 WC1	94265 BH28 WC2									Method Code	LoD/Units
Depth (m)	7.0	4.2	5.4										
Sample Type	SOLID	SOLID	SOLID										
Sampled Date	21.10.08	21.10.08	21.10.08										
Sample Received Date	24.10.08	24.10.08	24.10.08										
Batch	1	1	1										
Sample Number(s)	1-3	4-6	7-9										
Other Semi-volatiles (cont)													
1,3-Dichlorobenzene	-	<100	<100									TM157	<100 ug/kg
1,4-Dichlorobenzene	-	<100	<100									TM157	<100 ug/kg
2-Nitroaniline	-	<100	<100									TM157	<100 ug/kg
2,4-Dinitrotoluene	-	<100	<100									TM157	<100 ug/kg
2,6-Dinitrotoluene	-	<100	<100									TM157	<100 ug/kg
3-Nitroaniline	-	<100	<100									TM157	<100 ug/kg
4-Bromophenylphenylether	-	<100	<100									TM157	<100 ug/kg
4-Chloroaniline	-	<100	<100									TM157	<100 ug/kg
4-Chlorophenylphenylether	-	<100	<100									TM157	<100 ug/kg
4-Nitroaniline	-	<100	<100									TM157	<100 ug/kg
Azobenzene	-	<100	<100									TM157	<100 ug/kg
Bis(2-chloroethoxy)methane	-	<100	<100									TM157	<100 ug/kg
Bis(2-chloroethyl)ether	-	<100	<100									TM157	<100 ug/kg
Carbazole	-	<100	<100									TM157	<100 ug/kg
Dibenzofuran	-	<100	<100									TM157	<100 ug/kg
Hexachlorobenzene	-	<100	<100									TM157	<100 ug/kg
Hexachlorobutadiene	-	<100	<100									TM157	<100 ug/kg
Hexachlorocyclopentadiene	-	<100	<100									TM157	<100 ug/kg
Hexachloroethane	-	<100	<100									TM157	<100 ug/kg
Isophorone	-	<100	<100									TM157	<100 ug/kg
N-nitrosodi-n-propylamine	-	<100	<100									TM157	<100 ug/kg
Nitrobenzene	-	<100	<100									TM157	<100 ug/kg

All results expressed on a dry weight basis.

Date 05.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 > Shown on prev. report

Job Number: 08/17772/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5367

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	94261 BH24	94263 BH28 WC1	94265 BH28 WC2								Method Code	LOD/Units
Depth (m)	7.0	4.2	5.4									
Sample Type	SOLID	SOLID	SOLID									
Sampled Date	21.10.08	21.10.08	21.10.08									
Sample Received Date	24.10.08	24.10.08	24.10.08									
Batch	1	1	1									
Sample Number(s)	1-3	4-6	7-9									
Volatile Organic Compounds												
Dichlorodifluoromethane	-	<4	<4								TM116 ^d	<4 ug/kg
Chloromethane	-	<7	<7								TM116 ^d	<7 ug/kg
Vinyl Chloride	-	<10	<10								TM116 ^{d_M}	<10 ug/kg
Bromomethane	-	<13	<13								TM116 ^d	<13 ug/kg
Chloroethane	-	<14	<14								TM116 ^d	<14 ug/kg
Trichlorofluoromethane	-	<6	<6								TM116 ^{d_M}	<6 ug/kg
trans-1-2-Dichloroethene	-	<11	<11								TM116 ^d	<11 ug/kg
Dichloromethane	-	<10	<10								TM116 ^d	<10 ug/kg
Carbon Disulphide	-	150	300								TM116 ^{d_M}	<7 ug/kg
1,1-Dichloroethene	-	<10	<10								TM116 ^{d_M}	<10 ug/kg
1,1-Dichloroethane	-	<8	<8								TM116 ^{d_M}	<8 ug/kg
Methyl Tertiary Butyl Ether	-	<11	<11								TM116 ^d	<11 ug/kg
cis-1-2-Dichloroethene	-	<5	<5								TM116 ^{d_M}	<5 ug/kg
Bromochloromethane	-	<14	<14								TM116 ^d	<14 ug/kg
Chloroform	-	<8	<8								TM116 ^{d_M}	<8 ug/kg
2,2-Dichloropropane	-	<12	<12								TM116 ^d	<12 ug/kg
1,2-Dichloroethane	-	<5	<5								TM116 ^d	<5 ug/kg
1,1,1-Trichloroethane	-	<7	<7								TM116 ^{d_M}	<7 ug/kg
1,1-Dichloropropene	-	<11	<11								TM116 ^{d_M}	<11 ug/kg
Benzene	-	<9	<9								TM116 ^{d_M}	<9 ug/kg
Carbon tetrachloride	-	<14	<14								TM116 ^{d_M}	<14 ug/kg
Dibromomethane	-	<9	<9								TM116 ^d	<9 ug/kg
1,2-Dichloropropane	-	<12	<12								TM116 ^{d_M}	<12 ug/kg
Bromodichloromethane	-	<7	<7								TM116 ^{d_M}	<7 ug/kg
Trichloroethene	-	<9	<9								TM116 ^{d_M}	<9 ug/kg
cis-1-3-Dichloropropene	-	<14	<14								TM116 ^{d_M}	<14 ug/kg
trans-1-3-Dichloropropene	-	<14	<14								TM116 ^{d_M}	<14 ug/kg
1,1,2-Trichloroethane	-	<10	<10								TM116 ^d	<10 ug/kg
Toluene	-	<5	23								TM116 ^{d_M}	<5 ug/kg
1,3-Dichloropropane	-	<7	<7								TM116 ^d	<7 ug/kg

All results expressed on a dry weight basis.

Date 05.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17772/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5367

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	94261 BH24	94263 BH28 WC1	94265 BH28 WC2								Method Code	LoD/Units
Depth (m)	7.0	4.2	5.4									
Sample Type	SOLID	SOLID	SOLID									
Sampled Date	21.10.08	21.10.08	21.10.08									
Sample Received Date	24.10.08	24.10.08	24.10.08									
Batch	1	1	1									
Sample Number(s)	1-3	4-6	7-9									
Volatile Organic Compounds (cont)												
Dibromochloromethane	-	<13	<13								TM116 ^d	<13 ug/kg
1,2-Dibromoethane	-	<12	<12								TM116 ^d	<12 ug/kg
Tetrachloroethene	-	<5	<5								TM116 ^d	<5 ug/kg
1,1,1,2-Tetrachloroethane	-	<10	<10								TM116 ^{d,M}	<10 ug/kg
Chlorobenzene	-	<5	<5								TM116 ^{d,M}	<5 ug/kg
Ethylbenzene	-	<4	<4								TM116 ^d	<4 ug/kg
p,m-Xylene	-	<14	<14								TM116 ^d	<14 ug/kg
Bromoform	-	<10	<10								TM116 ^d	<10 ug/kg
Styrene	-	<10	<10								TM116 ^d	<10 ug/kg
1,1,2,2-Tetrachloroethane	-	<10	<10								TM116 ^d	<10 ug/kg
o-Xylene	-	<10	<10								TM116 ^d	<10 ug/kg
1,2,3-Trichloropropane	-	<17	<17								TM116 ^d	<17 ug/kg
Isopropylbenzene	-	<5	<5								TM116 ^d	<5 ug/kg
Bromobenzene	-	<10	<10								TM116 ^{d,M}	<10 ug/kg
2-Chlorotoluene	-	<9	<9								TM116 ^d	<9 ug/kg
Propylbenzene	-	<11	<11								TM116 ^d	<11 ug/kg
4-Chlorotoluene	-	<12	<12								TM116 ^d	<12 ug/kg
1,2,4-Trimethylbenzene	-	<9	<9								TM116 ^d	<9 ug/kg
4-Isopropyltoluene	-	<11	<11								TM116 ^d	<11 ug/kg
1,3,5-Trimethylbenzene	-	<8	<8								TM116 ^d	<8 ug/kg
1,2-Dichlorobenzene	-	<12	<12								TM116 ^{d,M}	<12 ug/kg
1,4-Dichlorobenzene	-	<5	<5								TM116 ^{d,M}	<5 ug/kg
sec-Butylbenzene	-	<10	<10								TM116 ^d	<10 ug/kg
tert-Butylbenzene	-	<12	<12								TM116 ^d	<12 ug/kg
1,3-Dichlorobenzene	-	<6	<6								TM116 ^d	<6 ug/kg
n-Butylbenzene	-	<10	<10								TM116 ^d	<10 ug/kg
1,2-Dibromo-3-chloropropane	-	<14	<14								TM116 ^d	<14 ug/kg
1,2,4-Trichlorobenzene	-	<6	<6								TM116 ^d	<6 ug/kg
Naphthalene	-	<13	<13								TM116 ^d	<13 ug/kg
1,2,3-Trichlorobenzene	-	<11	<11								TM116 ^d	<11 ug/kg

All results expressed on a dry weight basis.

Date 05.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17772/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5367

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	94263 BH28 WC1	94265 BH28 WC2										Method Code	LoD/Units
Depth (m)	4.2	5.4											
Sample Type	SOLID	SOLID											
Sampled Date	21.10.08	21.10.08											
Sample Received Date	24.10.08	24.10.08											
Batch	1	1											
Sample Number(s)	4-6	7-9											
Arsenic Dissolved (NRA) (ICP-MS)	3.3	11										TM152	<0.75 ug/l
Boron Dissolved (NRA) (ICP-MS)	<20	290										TM152	<20 ug/l
Cadmium Dissolved (NRA) (ICP-MS)	<0.22	<0.22										TM152	<0.22 ug/l
Chromium Dissolved (NRA) (ICP-MS)	3	<1										TM152	<1 ug/l
Copper Dissolved (NRA) (ICP-MS)	3.8	2.5										TM152	<1.6 ug/l
Lead Dissolved (NRA) (ICP-MS)	0.7	0.6										TM152	<0.4 ug/l
Nickel Dissolved (NRA) (ICP-MS)	120	<1.5										TM152	<1.5 ug/l
Selenium Dissolved (NRA) (ICP-MS)	2	2										TM152	<1 ug/l
Vanadium Dissolved (NRA) (ICP-MS)	51	1										TM152	<1 ug/l
Zinc Dissolved (NRA) (ICP-MS)	6	<5										TM152	<5 ug/l
Mercury Dissolved (NRA) (CVAF)	<0.01	<0.01										TM183	<0.01 ug/l
Sulphate (NRA)	33	56										TM098	<3 mg/l
Phenols Monohydric (NRA)	<0.01	<0.01										TM062	<0.01 mg/l
Total Cyanide (NRA)	<0.05	<0.05										TM153	<0.05 mg/l
pH (NRA)	7.48	7.07										TM133	<1.00 pH Units

Date 05 11 2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 * MCERTS accredited
 * Subcontracted test
 * Shown on prev. report

Job Number: 08/17772/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5367

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	94263 BH28 WC1	94265 BH28 WC2										Method Code	LoD/Units
Depth (m)	4.2	5.4											
Sample Type	SOLID	SOLID											
Sampled Date	21.10.08	21.10.08											
Sample Received Date	24.10.08	24.10.08											
Batch	1	1											
Sample Number(s)	4-6	7-9											
GRO (C4-C12) (NRA)	<10	<10										TM089	<10 ug/l
MTBE (NRA)	<10	<10										TM089	<10 ug/l
Benzene (NRA)	<10	<10										TM089	<10 ug/l
Toluene (NRA)	<10	<10										TM089	<10 ug/l
Ethyl benzene (NRA)	<10	<10										TM089	<10 ug/l
m & p Xylene (NRA)	<10	<10										TM089	<10 ug/l
o Xylene (NRA)	<10	<10										TM089	<10 ug/l
Aliphatics C5-C6 (NRA)	<10	<10										TM089	<10 ug/l
Aliphatics >C6-C8 (NRA)	<10	<10										TM089	<10 ug/l
Aliphatics >C8-C10 (NRA)	<10	<10										TM089	<10 ug/l
Aliphatics >C10-C12 (NRA)	<10	<10										TM089	<10 ug/l
Aliphatics >C12-C16 (NRA)	<10	11										TM174	<10 ug/l
Aliphatics >C16-C21 (NRA)	<10	119										TM174	<10 ug/l
Aliphatics >C21-C35 (NRA)	<10	226										TM174	<10 ug/l
Total Aliphatics C5-C35 (NRA)	<10	340										TM61/89	<10 ug/l
Aromatics C6-C7 (NRA)	<10	<10										TM089	<10 ug/l
Aromatics >C7-C8 (NRA)	<10	<10										TM089	<10 ug/l
Aromatics >EC8-EC10 (NRA)	<10	<10										TM089	<10 ug/l
Aromatics >EC10-EC12 (NRA)	<10	<10										TM089	<10 ug/l
Aromatics >EC12-EC16 (NRA)	<10	<10										TM174	<10 ug/l
Aromatics >EC16-EC21 (NRA)	<10	<10										TM174	<10 ug/l
Aromatics >EC21-EC35 (NRA)	<10	<10										TM174	<10 ug/l
Total Aromatics C6-C35 (NRA)	<10	<10										TM61/89	<10 ug/l
Total Aliphatics and Aromatics C5-C35 (NRA)	<10	340										TM61/89	<10 ug/l

Date 05.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17772/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5367

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	94263 BH28 WC1	94265 BI28 WC2										Method Code	LoD/Units
Depth (m)	4.2	5.4											
Sample Type	SOLID	SOLID											
Sampled Date	21.10.08	21.10.08											
Sample Received Date	24.10.08	24.10.08											
Batch	1	1											
Sample Number(s)	4-6	7-9											
PAH by GCMS													
Naphthalene (NRA)	<100	<100										TM178	<100 ng/l
Acenaphthylene (NRA)	<11	<11										TM178	<11 ng/l
Acenaphthene (NRA)	<15	<15										TM178	<15 ng/l
Fluorene (NRA)	<14	29										TM178	<14 ng/l
Phenanthrene (NRA)	<22	230										TM178	<22 ng/l
Anthracene (NRA)	<15	79										TM178	<15 ng/l
Fluoranthene (NRA)	<17	43										TM178	<17 ng/l
Pyrene (NRA)	<15	81										TM178	<15 ng/l
Benz(a)anthracene (NRA)	<17	<17										TM178	<17 ng/l
Chrysene (NRA)	<13	13										TM178	<13 ng/l
Benzo(b)fluoranthene (NRA)	<23	<23										TM178	<23 ng/l
Benzo(k)fluoranthene (NRA)	<27	<27										TM178	<27 ng/l
Benzo(a)pyrene (NRA)	<9	<9										TM178	<9 ng/l
Indeno(1,2,3-cd)pyrene (NRA)	<14	<14										TM178	<14 ng/l
Dibenzo(a,h)anthracene (NRA)	<16	<16										TM178	<16 ng/l
Benzo(ghi)perylene (NRA)	<16	<16										TM178	<16 ng/l
PAH 16 Total (NRA)	<100	470										TM178	<100 ng/l

Date 05.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17772/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5367

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	94263 BH28 WC1	94265 BH28 WC2										Method Code	LoD/Units
Depth (m)	4.2	5.4											
Sample Type	SOLID	SOLID											
Sampled Date	21.10.08	21.10.08											
Sample Received Date	24.10.08	24.10.08											
Batch	1	1											
Sample Number(s)	4-6	7-9											
OCP/OPP													
Dichlorvos (NRA)	<10	<10										TM144/145	<10 ng/l
Mevinphos (NRA)	<10	<10										TM144/145	<10 ng/l
Alpha-BHC (Lindane) (NRA)	<10	<10										TM144/145	<10 ng/l
Beta-BHC (Lindane) (NRA)	<10	<10										TM144/145	<10 ng/l
Gamma-BHC (Lindane) (NRA)	<10	<10										TM144/145	<10 ng/l
Diazinon (NRA)	<10	<10										TM144/145	<10 ng/l
Methyl Parathion (NRA)	<10	<10										TM144/145	<10 ng/l
Heptachlor (NRA)	<10	<10										TM144/145	<10 ng/l
Fenitrothion (NRA)	<10	<10										TM144/145	<10 ng/l
Malathion (NRA)	<20	<20										TM144/145	<10 ng/l
Aldrin (NRA)	<10	<10										TM144/145	<10 ng/l
Parathion (NRA)	<10	<10										TM144/145	<10 ng/l
Heptachlor Epoxide (NRA)	<10	<10										TM144/145	<10 ng/l
Endosulphan I (NRA)	<10	<10										TM144/145	<10 ng/l
p,p'-DDE (NRA)	<10	<10										TM144/145	<10 ng/l
Dieldrin (NRA)	<10	<10										TM144/145	<10 ng/l
Endrin (NRA)	<10	<10										TM144/145	<10 ng/l
Endosulphan II (NRA)	<10	<10										TM144/145	<10 ng/l
p,p'-TDE(DDD) (NRA)	<10	<10										TM144/145	<10 ng/l
Ethion (NRA)	<10	<10										TM144/145	<10 ng/l
p,p'-DDT (NRA)	<10	<10										TM144/145	<10 ng/l
Endosulphan sulphate (NRA)	<10	<10										TM144/145	<10 ng/l
p,p'-Methoxychlor (NRA)	<10	<10										TM144/145	<10 ng/l
Azinphos methyl (NRA)	<10	<10										TM144/145	<10 ng/l

Date 05.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17772/02/01
Client: Envirolab
Client Ref. No.: 722201-5367

Matrix: LEACHATE
Location: SIZEWELL C
Client Contact: Envirolab Data

Sample Identity	94263 BH28 WC1	94265 BH28 WC2										Method Code	Lob/Units
Depth (m)	4.2	5.4											
Sample Type	SOLID	SOLID											
Sampled Date	21.10.08	21.10.08											
Sample Received Date	24.10.08	24.10.08											
Batch	1	1											
Sample Number(s)	4-6	7-9											
SVOC by GCMS													
Phenols													
3-Chlorophenol (NRA)	<1	<1										TM176	<1 ug/l
2-Methylphenol (NRA)	<1	<1										TM176	<1 ug/l
2-Nitrophenol (NRA)	<1	<1										TM176	<1 ug/l
2,4-Dichlorophenol (NRA)	<1	<1										TM176	<1 ug/l
2,4-Dimethylphenol (NRA)	<1	<1										TM176	<1 ug/l
2,4,5-Trichlorophenol (NRA)	<1	<1										TM176	<1 ug/l
2,4,6-Trichlorophenol (NRA)	<1	<1										TM176	<1 ug/l
4-Chloro-3-methylphenol (NRA)	<1	<1										TM176	<1 ug/l
4-Methylphenol (NRA)	<1	<1										TM176	<1 ug/l
4-Nitrophenol (NRA)	<1	<1										TM176	<1 ug/l
Pentachlorophenol (NRA)	<1	<1										TM176	<1 ug/l
Phenol (NRA)	<1	<1										TM176	<1 ug/l

Date 05.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 D Shown on prev. report

Job Number: 08/17772/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5367

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	94263 BH28 WC1	94265 BH28 WC2									Method Code	LoD/Units
Depth (m)	4.2	5.4										
Sample Type	SOLID	SOLID										
Sampled Date	21.10.08	21.10.08										
Sample Received Date	24.10.08	24.10.08										
Batch	1	1										
Sample Number(s)	4-6	7-9										
PAHs												
2-Chloronaphthalene (NRA)	<1	<1									TM176	<1 ug/l
2-Methylnaphthalene (NRA)	<1	<1									TM176	<1 ug/l
Phthalates												
Bis(2-ethylhexyl) phthalate (NRA)	<5	<1									TM176	<1 ug/l
Butylbenzyl phthalate (NRA)	<4	<1									TM176	<1 ug/l
Di-n-butyl phthalate (NRA)	<2	<1									TM176	<1 ug/l
Di-n-Octyl phthalate (NRA)	<1	<1									TM176	<1 ug/l
Diethyl phthalate (NRA)	<2	<1									TM176	<1 ug/l
Dimethyl phthalate (NRA)	<1	<1									TM176	<1 ug/l
Other Semi-volatiles												
1,2-Dichlorobenzene (NRA)	<1	<1									TM176	<1 ug/l
1,2,4-Trichlorobenzene (NRA)	<1	<1									TM176	<1 ug/l
1,3-Dichlorobenzene (NRA)	<1	<1									TM176	<1 ug/l
1,4-Dichlorobenzene (NRA)	<1	<1									TM176	<1 ug/l
2-Nitroaniline (NRA)	<1	<1									TM176	<1 ug/l
2,4-Dinitrotoluene (NRA)	<1	<1									TM176	<1 ug/l
2,6-Dinitrotoluene (NRA)	<1	<1									TM176	<1 ug/l
3-Nitroaniline (NRA)	<1	<1									TM176	<1 ug/l
4-Bromophenylphenylether (NRA)	<1	<1									TM176	<1 ug/l
4-Chloroaniline (NRA)	<1	<1									TM176	<1 ug/l
4-Chlorophenylphenylether (NRA)	<1	<1									TM176	<1 ug/l
4-Nitroaniline (NRA)	<1	<1									TM176	<1 ug/l
Azobenzene (NRA)	<1	<1									TM176	<1 ug/l
Bis(2-chloroethoxy)methane (NRA)	<1	<1									TM176	<1 ug/l
Bis(2-chloroethyl)ether (NRA)	<1	<1									TM176	<1 ug/l
Carbazole (NRA)	<1	<1									TM176	<1 ug/l
Dibenzofuran (NRA)	<1	<1									TM176	<1 ug/l
Hexachlorobenzene (NRA)	<1	<1									TM176	<1 ug/l

Date 05.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17772/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5367

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	94263 BH28 WC1	94265 BH28 WC2										Method Code	LoD/Units
Depth (m)	4.2	5.4											
Sample Type	SOLID	SOLID											
Sampled Date	21.10.08	21.10.08											
Sample Received Date	24.10.08	24.10.08											
Batch	1	1											
Sample Number(s)	4-6	7-9											
Volatile Organic Compounds													
Dichlorodifluoromethane (NRA)	<1	<1										TM208	<1 ug/l
Chloromethane (NRA)	<1	<1										TM208	<1 ug/l
Vinyl Chloride (NRA)	<1	<1										TM208	<1 ug/l
Bromomethane (NRA)	<1	<1										TM208	<1 ug/l
Chloroethane (NRA)	<1	<1										TM208	<1 ug/l
Trichlorofluoromethane (NRA)	<1	<1										TM208	<1 ug/l
trans-1-2-Dichloroethene (NRA)	<1	<1										TM208	<1 ug/l
Dichloromethane (NRA)	<1	<1										TM208	<1 ug/l
Carbon Disulphide (NRA)	<1	<1										TM208	<1 ug/l
1,1-Dichloroethene (NRA)	<1	<1										TM208	<1 ug/l
1,1-Dichloroethane (NRA)	<1	<1										TM208	<1 ug/l
Methyl Tertiary Butyl Ether (NRA)	<1	<1										TM208	<1 ug/l
cis-1-2-Dichloroethene (NRA)	<1	<1										TM208	<1 ug/l
Bromochloromethane (NRA)	<1	<1										TM208	<1 ug/l
Chloroform (NRA)	<1	<1										TM208	<1 ug/l
2,2-Dichloropropane (NRA)	<1	<1										TM208	<1 ug/l
1,2-Dichloroethane (NRA)	<1	<1										TM208	<1 ug/l
1,1,1-Trichloroethane (NRA)	<1	<1										TM208	<1 ug/l
1,1-Dichloropropene (NRA)	<1	<1										TM208	<1 ug/l
Benzene (NRA)	<1	<1										TM208	<1 ug/l
Carbon tetrachloride (NRA)	<1	<1										TM208	<1 ug/l
Dibromomethane (NRA)	<1	<1										TM208	<1 ug/l
1,2-Dichloropropane (NRA)	<1	<1										TM208	<1 ug/l
Bromodichloromethane (NRA)	<1	<1										TM208	<1 ug/l
Trichloroethene (NRA)	<1	<1										TM208	<1 ug/l
cis-1-3-Dichloropropene (NRA)	<1	<1										TM208	<1 ug/l
trans-1-3-Dichloropropene (NRA)	<1	<1										TM208	<1 ug/l
1,1,2-Trichloroethane (NRA)	<1	<1										TM208	<1 ug/l
Toluene (NRA)	<1	<1										TM208	<1 ug/l
1,3-Dichloropropane (NRA)	<1	<1										TM208	<1 ug/l

Date 05.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 b Shown on prev. report

Job Number: 08/17772/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5367

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	94263 BH28 WC1	94265 BH28 WC2											Method Code	LoD/Units
Depth (m)	4.2	5.4												
Sample Type	SOLID	SOLID												
Sampled Date	21.10.08	21.10.08												
Sample Received Date	24.10.08	24.10.08												
Batch	1	1												
Sample Number(s)	4-6	7-9												
Volatile Organic Compounds (cont)														
Dibromochloroethane (NRA)	<1	<1											TM208	<1 ug/l
1,2-Dibromoethane (NRA)	<1	<1											TM208	<1 ug/l
Tetrachloroethene (NRA)	<1	<1											TM208	<1 ug/l
1,1,1,2-Tetrachloroethane (NRA)	<1	<1											TM208	<1 ug/l
Chlorobenzene (NRA)	<1	<1											TM208	<1 ug/l
Ethylbenzene (NRA)	<1	<1											TM208	<1 ug/l
p,m-Xylene (NRA)	<1	<1											TM208	<1 ug/l
Bromoform (NRA)	<1	<1											TM208	<1 ug/l
Styrene (NRA)	<1	<1											TM208	<1 ug/l
1,1,2,2-Tetrachloroethane (NRA)	<1	<1											TM208	<1 ug/l
o-Xylene (NRA)	<1	<1											TM208	<1 ug/l
1,2,3-Trichloropropane (NRA)	<1	<1											TM208	<1 ug/l
Isopropylbenzene (NRA)	<1	<1											TM208	<1 ug/l
Bromobenzene (NRA)	<1	<1											TM208	<1 ug/l
2-Chlorotoluene (NRA)	<1	<1											TM208	<1 ug/l
Propylbenzene (NRA)	<1	<1											TM208	<1 ug/l
4-Chlorotoluene (NRA)	<1	<1											TM208	<1 ug/l
1,2,4-Trimethylbenzene (NRA)	<1	<1											TM208	<1 ug/l
4-Isopropyltoluene (NRA)	<1	<1											TM208	<1 ug/l
1,3,5-Trimethylbenzene (NRA)	<1	<1											TM208	<1 ug/l
1,2-Dichlorobenzene (NRA)	<1	<1											TM208	<1 ug/l
1,4-Dichlorobenzene (NRA)	<1	<1											TM208	<1 ug/l
sec-Butylbenzene (NRA)	<1	<1											TM208	<1 ug/l
tert-Butylbenzene (NRA)	<1	<1											TM208	<1 ug/l
1,3-Dichlorobenzene (NRA)	<1	<1											TM208	<1 ug/l
n-Butylbenzene (NRA)	<1	<1											TM208	<1 ug/l
1,2-Dibromo-3-chloropropane (NRA)	<1	<1											TM208	<1 ug/l
1,2,4-Trichlorobenzene (NRA)	<1	<1											TM208	<1 ug/l
Naphthalene (NRA)	<1	<1											TM208	<1 ug/l
1,2,3-Trichlorobenzene (NRA)	<1	<1											TM208	<1 ug/l

Date 05.11.2008

ALcontrol Laboratories Analytical Services

Table Of Results - Appendix

Job Number: 08/17772/02/01
Client: Envirolab
Client Ref. No.: 722201-5367

Report Key :

NDP	No Determination Possible	*	Subcontracted test
NFD	No Fibres Detected	»	Result previously reported (Incremental reports only)
#	ISO 17025 accredited	M	MCERTS Accredited
PFD	Possible Fibres Detected	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control.

Summary of Method Codes contained within report :

Method No.	Reference	Description	ISO 17025 Accredited	MCERTS Accredited	Wet/Dry Sample ¹	Surrogate Corrected
TM001	In - house Method	Screening of Soils for Fibres			WET	
TM018	BS 1377: Part 3 1990	Determination of Loss on Ignition	✓	✓	WET	
TM043	Method 2320B, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part109 1984	Determination of alkalinity in aqueous samples			WET	
TM062	MEWAM BOOK 124 1988.HMSO/ Method 17.7, Second Site property, March 2003	Determination of Phenolic compounds by HPLC with electro-chemical detection			NA	
TM062	MEWAM BOOK 124 1988.HMSO/ Method 17.7, Second Site property, March 2003	Determination of Phenolic compounds by HPLC with electro-chemical detection	✓	✓	WET	
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)			NA	
TM098	Method 4500E, AWWA/APHA, 20th Ed., 1999	Determination of Sulphate using the Kone Analyser			NA	
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS			WET	
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS	✓		WET	
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS	✓	✓	WET	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer			DRY	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer	✓	✓	DRY	
TM132	In - house Method	ELTRA CS800 Operators Guide	✓		DRY	
TM133	BS 1377: Part 3 1990.BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter			NA	

¹ Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

ALcontrol Laboratories Analytical Services

Table Of Results - Appendix

Job Number: 08/17772/02/01
Client: Envirolab
Client Ref. No.: 722201-5367

Report Key :

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03×10^{-7}

NDP	No Determination Possible	*	Subcontracted test
NPD	No Fibres Detected	»	Result previously reported (Incremental reports only)
#	ISO 17025 accredited	M	MCERTS Accredited
PPD	Possible Fibres Detected	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control.

Summary of Method Codes contained within report :

Method No.	Reference	Description	ISO 17025 Accredited	MCERTS Accredited	Wet/Dry Sample ¹	Surrogate Corrected
TM133	BS 1377: Part 3 1990:BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter	✓	✓	WET	
TM136	Method 17.10, Second Site property, March 2003	Determination of Sulphur by HPLC	✓	✓	DRY	
TM144/145		Organochlorine and Organophosphorus pesticides by GC-MS			DRY	
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS			NA	
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the "Skalar SANS+ System" Segmented Flow Analyser			NA	
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the "Skalar SANS+ System" Segmented Flow Analyser	✓	✓	WET	
TM157		Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone			WET	
TM174		Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID			NA	
TM176		Determination of SVOCs in Water by GCMS			NA	
TM178	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters			NA	
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry			NA	
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters			NA	
TM61/89		see TM061 and TM089 for details			NA	

¹ Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

Date: 10 November 2008
Your Ref: 722201 - PO. 6812
Our Ref: 722201-(5376)-050
Project Manager: Steve Mackereth
Report to: John Wild

Envirolab
Units 7 & 8
Sandpits Business Park
Mottram Road
Hyde
Cheshire
SK14 3AR

Final Test Report

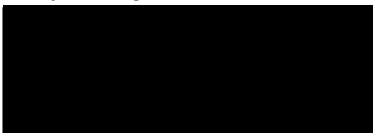
Sample(s) of Soil from Sizewell C.
Received from Structural Soils Ltd
The Old School House, Stillhouse Lane, Bedminster, Bristol, BS3 4EB

Date of receipt: 24 October 2008
Date analysis commenced: 24 October 2008
Date analysis completed: 10 November 2008

Method Statement

Speciated TPH analysis is performed in accordance with procedures A-T-022 using GC-MS with Head Space & A-T-023 using GC-FID.
PCB analysis is performed in accordance with procedures A-T-004 and A-T-005.
PAH analysis is performed in accordance with procedure A-T-019.
Loss on drying analysis is performed in accordance with procedure A-T-020.
Subcontract analysis was submitted to a laboratory on Envirolab's approved vendors list.
A copy of the report is attached, UKAS/MCERTS status is detailed on the report.

Prepared by:



Thi McNabb
Reporting Analytical Chemist

Approved by:



Louise Adams
Associate Director - Operations



Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.
Tests marked "*" in this report are not included in the UKAS Accreditation Schedule for Envirolab.
Analytical results reflect the quality of the sample at the time of analysis only.



Envirolab Ref.	PROCEDURE	ISO17025	INCERTS	94341	94343	94345	94347	94349	94351	94353	94355		
Location				BH29A WC1	BH29A WC2	BH29A WC3	BH11 WC1	BH11 WC2	BH11 WC3	BH11 WC4	BH11 WC5		
Depth (m)				5.80	6.50	8.00	5.00	6.00	7.50	8.50	10.00		
Sample Ref				-	-	-	-	-	-	-	-		
Sample Type				-	-	-	-	-	-	-	-		
MTBE _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Benzene _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Toluene _R	A-T-022	Y	N	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Ethyl Benzene _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
m & p Xylene _R	A-T-022	Y	N	0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
o Xylene _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Aliphatics C5-C6 _R	A-T-022	Y	N	0.04	0.03	0.04	0.03	0.04	0.04	0.04	0.04		
Aliphatics >C6-C8 _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Aliphatics >C8-C10 _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Aliphatics >C10-C12 _R	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Aliphatics >C12-C16 _R	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Aliphatics >C16-C21 _R	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Aliphatics >C21-C35 _R	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Total Aliphatics		Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Aromatics >C5-C7 _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Aromatics >C7-C9 _R	A-T-022	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Aromatics >C9-C10 _R	A-T-022	Y	N	0.01	<0.01	0.01	0.01	<0.01	0.01	0.01	0.01		
Aromatics >C10-C12 _R	A-T-023	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Aromatics >C12-C16 _R	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Aromatics >C16-C21 _R	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Aromatics >C21-C35 _R	A-T-023	Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
Total Aromatics		Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
TPH (Aliphatics & Aromatics)		Y	N	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		

Table 1 - Soil Speciated TPH Results (mg/kg)

EnviroLab Ref.	PROCEDURE	ISO 17025	MCERTS	94341	94343	94345	94347	94349	94361	94363	94355		
Location				BH29A WC1	BH29A WC2	BH29A WC3	BH11 WC1	BH11 WC2	BH11 WC3	BH11 WC4	BH11 WC5		
Depth (m)				5.80	6.50	5.00	5.00	5.00	7.50	8.50	10.00		
Sample Ref				-	-	-	-	-	-	-	-		
Sample Type				-	-	-	-	-	-	-	-		
PCB BZ 28 _D	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
PCB BZ 52 _D	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
PCB BZ 101 _D	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
PCB BZ 118 _D	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
PCB BZ 138 _D	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
PCB BZ 153 _D	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
PCB BZ 180 _D	A-T-004 A-T-005	Y	Y	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		

Table 2 - Soil PCB Results (mg/kg, expressed on a dry weight basis)

EnviroLab Ref.	PROCEDURE	ISO17025	INCERTIS	94341	94343	94345	94347	94349	94351	94353	94355		
Location				BH29A WC1	BH29A WC2	BH29A WC3	BH11 WC1	BH11 WC2	BH11 WC3	BH11 WC4	BH11 WC5		
Depth (m)				5.80	6.60	8.00	5.00	6.00	7.50	8.50	10.00		
Sample Ref				-	-	-	-	-	-	-	-		
Sample Type				-	-	-	-	-	-	-	-		
Naphthalene _n "	A-T-019	N	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Acenaphthylene _n "	A-T-019	N	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Acenaphthene _n "	A-T-019	N	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Fluorene _n "	A-T-019	N	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01		
Phenanthrene _n "	A-T-019	N	N	0.12	<0.01	0.08	<0.01	0.06	0.01	<0.01	<0.01		
Anthracene _n "	A-T-019	N	N	0.13	0.02	0.19	0.05	0.11	0.08	0.08	0.08		
Fluoranthene _n "	A-T-019	N	N	0.25	0.06	0.16	0.02	0.08	0.09	0.11	0.06		
Pyrene _n "	A-T-019	N	N	0.13	0.05	0.09	0.02	0.08	0.07	0.09	0.08		
Benzo [a] anthracene _n "	A-T-019	Y	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Chrysene _n "	A-T-019	N	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Benzo [b] fluoranthene _n Benzo [k] fluoranthene # _n "	A-T-019	N	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Benzo [a] pyrene _n "	A-T-019	N	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Indeno [123-cd] pyrene _n "	A-T-019	N	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Dibenz [ah] anthracene _n "	A-T-019	N	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Benzo [ghi] perylene _n "	A-T-019	N	N	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
Total 16 PAH Reported		N	N	0.63	0.13	0.50	0.09	0.33	0.26	0.23	0.21		

Due to coelution Benzo [b] fluoranthene and Benzo [k] fluoranthene are reported as one value.

Table 3 - Soil PAH Results (mg/kg, expressed on a dry weight basis)

Envirolab Ref.	94341	94343	94345	94347	94349	94351	94353	94355		
Location	BH29A WC1	BH29A WC2	BH29A WC3	BH11 WC1	BH11 WC2	BH11 WC3	BH11 WC4	BH11 WC5		
Depth (m)	5.80	6.50	8.00	5.00	6.00	7.50	8.50	10.00		
Sample Ref	-	-	-	-	-	-	-	-		
Sample Type	-	-	-	-	-	-	-	-		
Type	Loam	Clay	Loam	Clay	Loam	Clay	Clay	Clay		
Colour	Black	Grey	Black	Mixed	Black	Dark Brown	Dark Brown	Black		
Consistency	Loose	Soft	Loose	Soft	Loose	Soft	Soft	Soft		
Some Stones	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
>50 Stones	No	No	No	No	No	No	No	No		
Some Vegetation	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes		
Very Wet	No	No	No	No	No	No	No	No		
Strong Odour	No	No	No	No	No	No	No	No		

Table 4 - Soil Matrix Table

Appendix

Code	Description
+	Increased detection limit due to sample interference
#	increased detection limit due to sample dilution
\$	Analysis subcontracted
IS	Insufficient sample for analysis
IS-QC	Insufficient sample to retest following QC fail
NDP	No determination possible
~	Sample type outside the scope of our MCERTS accreditation since matrix not included in method validation
*	Analytes are associated with failed AQC targets for MCERTS/UKAS
^	Sample result is not covered under Envirolab's accreditation schedule for MCERTS as the result exceeds the validated range. See notes 1-3.
F	Analysis suffixed "F" were performed on the filtered sample
D	Analysis suffixed "D" were performed on the sample air dried at -30°C
O	Analysis suffixed "O" were performed on the sample oven dried at 95°C
R	Analysis suffixed "R" were performed on the sample as received. Where results are expressed on a dry weight basis, the samples were air dried at 95°C
Notes	
1	For MCERTS the validated range covers up to 15mg/kg for individual PAHs, 200mg/kg for totals.
2	For MCERTS the validated range covers up to 3000mg/kg for Total TPH analysis.
3	For MCERTS the validated range covers up to 0.2mg/kg for individual PCBs, and 1.5mg/kg for the total reported as aractor.
4	Natural stones and debris are excluded from analyses
5	Coarse granular material such as concrete, gravel and brick are not MCERTS accredited if they comprise the major part of the sample. Envirolab are currently accredited for MCERTS on soil types Sand, Clay and Loam only

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17891/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5376

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Subcon

Sample Identity	94341 BH29A WC1	94343 BH29A WC2	94345 BH29A WC3	94347 BH11 WC1	94349 BH11 WC2	94351 BH11 WC3	94353 BH11 WC4	94355 BH11 WC5		Method Code	Lod/Units
Depth (m)	5.8	6.5	8.0	5.0	6.0	7.5	8.5	10.0			
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID			
Sampled Date	23.10.08	23.10.08	23.10.08	22.10.08	22.10.08	22.10.08	23.10.08	23.10.08			
Sample Received Date	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08			
Batch	1	1	1	1	1	1	1	1			
Sample Number(s)	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40			
Total Sulphate	5400	1400	6300	1500	3200	2200	1200	1400		TM129 ^M	<100 mg/kg
Boron Water Soluble	15	<3.5	17	12	26	21	4.8	7.8		TM129 ^M	<3.5 mg/kg
Arsenic	4	22	17	9	35	22	18	17		TM129 ^M	<3.0 mg/kg
Cadmium	<0.2	0.2	<0.2	<0.2	0.3	0.2	0.2	<0.2		TM129	<0.2 mg/kg
Chromium	14	40	<4.5	27	28	37	32	30		TM129 ^M	<4.5 mg/kg
Copper	10	16	<6	11	13	16	15	13		TM129 ^M	<6 mg/kg
Lead	10	18	7	15	15	17	17	15		TM129 ^M	<2 mg/kg
Mercury	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4		TM129 ^M	<0.4 mg/kg
Nickel	14	34	3.8	22	28	33	30	28		TM129 ^M	<0.9 mg/kg
Selenium	<3	<3	<3	<3	<3	<3	<3	<3		TM129 ^M	<3 mg/kg
Vanadium	30	76	7.8	51	56	73	62	59		TM129 ^M	<1.5 mg/kg
Zinc	34	88	17	57	66	82	81	74		TM129 ^M	<2.5 mg/kg
Phenols Monohydric	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15		TM062 ^M	<0.15 mg/kg
Total Cyanide	<1	<1	<1	<1	<1	<1	<1	<1		TM153 ^M	<1 mg/kg
Asbestos Presence Screen	No Fibres Detected	No Fibres Detected	No Fibres Detected	No Fibres Detected	No Fibres Detected	No Fibres Detected	No Fibres Detected	No Fibres Detected		TM001	NONE
Fraction of Organic Carbon	0.31	0.024	0.42	0.030	0.083	0.085	0.027	0.073		TM132 ^M	<0.002 NONE
Loss on Ignition	71	6.7	53	7.8	8.8	17	7.6	14		TM018 ^M	<0.3 %
pH Value	6.54	8.09	6.91	8.83	8.48	8.45	8.22	7.71		TM133 ^M	<1.00 pH Units
Total Sulphur	4.1	2.5	3.3	1.3	3.4	3.4	2.2	2.4		TM068 ^M	<0.01 %

All results expressed on a dry weight basis.

Date 06.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 > Shown on prev. report

Job Number: 08/17891/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5376

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Subcon

Sample Identity	94341 BH29A WC1	94343 BH29A WC2	94345 BH29A WC3	94347 BH11 WC1	94349 BH11 WC2	94351 BH11 WC3	94353 BH11 WC4	94355 BH11 WC5		Method Code	LoD/Units
Depth (m)	5.8	6.5	8.0	5.0	6.0	7.5	8.5	10.0			
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID			
Sampled Date	23.10.08	23.10.08	23.10.08	22.10.08	22.10.08	22.10.08	23.10.08	23.10.08			
Sample Received Date	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08			
Batch	1	1	1	1	1	1	1	1			
Sample Number(s)	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40			
OCP/OPP											
Dichlorvos	<10	<10	<1	<10	<10	<1	<20	<20		TM144/145	<1 ug/kg
Mevinphos	<10	<10	<1	<10	<10	<1	<20	<20		TM144/145	<1 ug/kg
Alpha-BHC (Lindane)	<10	<10	<1	<10	<10	<1	<20	<20		TM144/145	<1 ug/kg
Beta-BHC (Lindane)	<10	<10	<1	<10	<10	<1	<20	<20		TM144/145	<1 ug/kg
Gamma-BHC (Lindane)	<10	<10	<1	<10	<10	<1	<20	<20		TM144/145	<1 ug/kg
Diazinon	<10	<10	<1	<10	<10	<1	<20	<20		TM144/145	<1 ug/kg
Methyl Parathion	<10	<10	<1	<10	<10	<1	<20	<20		TM144/145	<1 ug/kg
Heptachlor	<10	<10	<2	<10	<10	<1	<20	<20		TM144/145	<1 ug/kg
Fenitrothion	<10	<10	<1	<10	<10	<1	<20	<20		TM144/145	<1 ug/kg
Malathion	<10	<10	<1	<10	<10	<1	<20	<20		TM144/145	<1 ug/kg
Aldrin	<10	<10	<1	<10	<10	<1	<20	<20		TM144/145	<1 ug/kg
Parathion	<10	<10	<1	<10	<10	<1	<20	<20		TM144/145	<1 ug/kg
Heptachlor Epoxide	<10	<10	<1	<10	<10	<1	<20	<20		TM144/145	<1 ug/kg
Endosulphan I	<10	<10	<1	<10	<10	<1	<20	<20		TM144/145	<1 ug/kg
p,p'-DDE	<10	<10	<1	<10	<10	<1	<20	<20		TM144/145	<1 ug/kg
Dieldrin	<10	<10	<1	<10	<10	<1	<20	<20		TM144/145	<1 ug/kg
Endrin	<10	<10	<1	<10	<10	<1	<20	<20		TM144/145	<1 ug/kg
Endosulphan II	<10	<10	<1	<10	<10	<1	<20	<20		TM144/145	<1 ug/kg
p,p'-TDE(DDD)	<10	<10	<1	<10	<10	<1	<20	<20		TM144/145	<1 ug/kg
Ethion	<10	<10	<1	<10	<10	<1	<20	<20		TM144/145	<1 ug/kg
p,p'-DDT	<10	<10	<10	<10	<10	<2	<20	<20		TM144/145	<1 ug/kg
Endosulphan sulphate	<10	<10	<1	<10	<10	<1	<20	<20		TM144/145	<1 ug/kg
p,p'-Methoxychlor	<10	<10	<6	<10	<10	<2	<20	<20		TM144/145	<1 ug/kg
Azinphos methyl	<10	<10	<1	<10	<10	<1	<20	<20		TM144/145	<1 ug/kg

All results expressed on a dry weight basis.

Date 06.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17891/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5376

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Subcon

Sample Identity	94341 BH29A WC1	94343 BH29A WC2	94345 BH29A WC3	94347 BH11 WC1	94349 BH11 WC2	94351 BH11 WC3	94353 BH11 WC4	94355 BH11 WC5		Method Code	LoD/Units
Depth (m)	5.8	6.5	8.0	5.0	6.0	7.5	8.5	10.0			
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID			
Sampled Date	23.10.08	23.10.08	23.10.08	22.10.08	22.10.08	22.10.08	23.10.08	23.10.08			
Sample Received Date	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08			
Batch	1	1	1	1	1	1	1	1			
Sample Number(s)	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40			
SVOC by GCMS											
Phenols											
2-Chlorophenol	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
2-Methylphenol	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
2-Nitrophenol	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
2,4-Dichlorophenol	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
2,4-Dimethylphenol	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
2,4,5-Trichlorophenol	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
2,4,6-Trichlorophenol	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
4-Chloro-3-methylphenol	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
4-Methylphenol	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
4-Nitrophenol	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Pentachlorophenol	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Phenol	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg

All results expressed on a dry weight basis.

Date 06.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17891/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5376

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Subcon

Sample Identity	94341 BH29A WC1	94343 BH29A WC2	94345 BH29A WC3	94347 BH11 WC1	94349 BH11 WC2	94351 BH11 WC3	94353 BH11 WC4	94355 BH11 WC5		Method Code	LoD/Units
Depth (m)	5.8	6.5	8.0	5.0	6.0	7.5	8.5	10.0			
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID			
Sampled Date	23.10.08	23.10.08	23.10.08	23.10.08	22.10.08	22.10.08	23.10.08	23.10.08			
Sample Received Date	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08			
Batch	1	1	1	1	1	1	1	1			
Sample Number(s)	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40			
PAHs											
2-Chloronaphthalene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
2-Methylnaphthalene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Acenaphthene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Acenaphthylene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Anthracene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Benzo(a)anthracene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Benzo(a)pyrene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Benzo(b)fluoranthene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Benzo(ghi)perylene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Benzo(k)fluoranthene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Chrysene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Dibenzo(a,b)anthracene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Fluoranthene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Fluorene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Indeno(1,2,3-cd)pyrene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Naphthalene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Phenanthrene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Pyrene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Phthalates											
Bis(2-ethylhexyl) phthalate	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Butylbenzyl phthalate	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Di-n-butyl phthalate	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Di-n-Octyl phthalate	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Diethyl phthalate	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Dimethyl phthalate	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Other Semi-volatiles											
1,2-Dichlorobenzene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
1,2,4-Trichlorobenzene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg

All results expressed on a dry weight basis.

Date 06.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17891/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5376

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Subcon

Sample Identity	94341 BH29A WC1	94343 BH29A WC2	94345 BH29A WC3	94347 BH11 WC1	94349 BH11 WC3	94351 BH11 WC3	94353 BH11 WC4	94355 BH11 WC5		Method Code	LoD/Units
Depth (m)	5.8	6.5	8.0	5.0	6.0	7.5	8.5	10.0			
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID			
Sampled Date	23.10.08	23.10.08	23.10.08	22.10.08	22.10.08	22.10.08	23.10.08	23.10.08			
Sample Received Date	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08			
Batch	1	1	1	1	1	1	1	1			
Sample Number(s)	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40			
Other Semi-volatiles (cont)											
1,3-Dichlorobenzene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
1,4-Dichlorobenzene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
2-Nitroaniline	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
2,4-Dinitrotoluene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
2,6-Dinitrotoluene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
3-Nitroaniline	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
4-Bromophenylphenylether	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
4-Chloroaniline	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
4-Chlorophenylphenylether	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
4-Nitroaniline	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Azobenzene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Bis(2-chloroethoxy)methane	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Bis(2-chloroethyl)ether	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Carbazole	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Dibenzofuran	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Hexachlorobenzene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Hexachlorobutadiene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Hexachlorocyclopentadiene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Hexachloroethane	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Isophorone	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
N-nitrosodi-n-propylamine	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg
Nitrobenzene	<100	<100	<100	<100	<100	<100	<100	<100		TM157	<100 ug/kg

All results expressed on a dry weight basis.

Date 06.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 D Shown on prev. report

Job Number: 08/17891/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5376

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Subcon

Sample Identity	94341 BH29A WC1	94343 BH29A WC2	94345 BH29A WC3	94347 BH11 WC1	94349 BH11 WC2	94351 BH11 WC3	94353 BH11 WC4	94355 BH11 WC5		Method Code	LoD/Units
Depth (m)	5.8	6.5	8.0	5.0	6.0	7.5	8.5	10.0			
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID			
Sampled Date	23.10.08	23.10.08	23.10.08	22.10.08	22.10.08	22.10.08	23.10.08	23.10.08			
Sample Received Date	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08			
Batch	1	1	1	1	1	1	1	1			
Sample Number(s)	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40			
Volatile Organic Compounds											
Dichlorodifluoromethane	<4	<4	<4	<4	<4	<4	<4	<4		TM116 ^d	<4 ug/kg
Chloromethane	<7	<7	<7	<7	<7	<7	<7	<7		TM116 ^d	<7 ug/kg
Vinyl Chloride	<10	<10	<10	<10	<10	<10	<10	<10		TM116 ^d _M	<10 ug/kg
Bromomethane	<13	<13	<13	<13	<13	<13	<13	<13		TM116	<13 ug/kg
Chloroethane	<14	<14	<14	<14	<14	<14	<14	<14		TM116 ^d	<14 ug/kg
Trichlorofluoromethane	<6	<6	<6	<6	<6	<6	<6	<6		TM116 ^d _M	<6 ug/kg
trans-1-2-Dichloroethene	<11	<11	<11	<11	<11	<11	<11	<11		TM116 ^d	<11 ug/kg
Dichloromethane	<10	<10	<10	<10	<10	<10	<10	<10		TM116 ^d	<10 ug/kg
Carbon Disulphide	<7	<7	<7	<7	<7	<7	<7	<7		TM116 ^d _M	<7 ug/kg
1,1-Dichloroethene	<10	<10	<10	<10	<10	<10	<10	<10		TM116 ^d _M	<10 ug/kg
1,1-Dichloroethane	<8	<8	<8	<8	<8	<8	<8	<8		TM116 ^d _M	<8 ug/kg
Methyl Tertiary Butyl Ether	<11	<11	<11	<11	<11	<11	<11	<11		TM116	<11 ug/kg
cis-1-2-Dichloroethene	<5	<5	<5	<5	<5	<5	<5	<5		TM116 ^d _M	<5 ug/kg
Bromochloromethane	<14	<14	<14	<14	<14	<14	<14	<14		TM116 ^d	<14 ug/kg
Chloroform	<8	<8	<8	<8	<8	<8	<8	<8		TM116 ^d _M	<8 ug/kg
2,2-Dichloropropane	<12	<12	<12	<12	<12	<12	<12	<12		TM116	<12 ug/kg
1,2-Dichloroethane	<5	<5	<5	<5	<5	<5	<5	<5		TM116 ^d	<5 ug/kg
1,1,1-Trichloroethane	<7	<7	<7	<7	<7	<7	<7	<7		TM116 ^d _M	<7 ug/kg
1,1-Dichloropropene	<11	<11	<11	<11	<11	<11	<11	<11		TM116 ^d _M	<11 ug/kg
Benzene	<9	<9	<9	<9	<9	<9	<9	<9		TM116 ^d _M	<9 ug/kg
Carbon tetrachloride	<14	<14	<14	<14	<14	<14	<14	<14		TM116 ^d _M	<14 ug/kg
Dibromomethane	<9	<9	<9	<9	<9	<9	<9	<9		TM116 ^d	<9 ug/kg
1,2-Dichloropropane	<12	<12	<12	<12	<12	<12	<12	<12		TM116 ^d _M	<12 ug/kg
Bromodichloromethane	<7	<7	<7	<7	<7	<7	<7	<7		TM116 ^d _M	<7 ug/kg
Trichloroethene	<9	<9	<9	<9	<9	<9	<9	<9		TM116 ^d _M	<9 ug/kg
cis-1-3-Dichloropropene	<14	<14	<14	<14	<14	<14	<14	<14		TM116 ^d _M	<14 ug/kg
trans-1-3-Dichloropropene	<14	<14	<14	<14	<14	<14	<14	<14		TM116 ^d _M	<14 ug/kg
1,1,2-Trichloroethane	<10	<10	<10	<10	<10	<10	<10	<10		TM116 ^d	<10 ug/kg
Toluene	<5	<5	<5	<5	<5	20	<5	<5		TM116 ^d _M	<5 ug/kg
1,3-Dichloropropane	<7	<7	<7	<7	<7	<7	<7	<7		TM116 ^d	<7 ug/kg

All results expressed on a dry weight basis.

Date 06.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17891/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5376

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Subcon

Sample Identity	94341 BH29A WC1	94343 BH29A WC2	94345 BH29A WC3	94347 BH11 WC1	94349 BH11 WC2	94351 BH11 WC3	94353 BH11 WC4	94355 BH11 WC5		Method Code	LoD/Units
Depth (m)	5.8	6.5	8.0	5.0	6.0	7.5	8.5	10.0			
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID			
Sampled Date	23.10.08	23.10.08	23.10.08	22.10.08	22.10.08	22.10.08	23.10.08	23.10.08			
Sample Received Date	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08			
Batch	1	1	1	1	1	1	1	1			
Sample Number(s)	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40			
Volatile Organic Compounds (cont)											
Dibromochloromethane	<13	<13	<13	<13	<13	<13	<13	<13		TM116 ^d	<13 ug/kg
1,2-Dibromoethane	<12	<12	<12	<12	<12	<12	<12	<12		TM116 ^d	<12 ug/kg
Tetrachloroethene	<5	<5	<5	<5	<5	<5	<5	<5		TM116 ^d	<5 ug/kg
1,1,1,2-Tetrachloroethane	<10	<10	<10	<10	<10	<10	<10	<10		TM116 ^d _M	<10 ug/kg
Chlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5		TM116 ^d _M	<5 ug/kg
Ethylbenzene	<4	<4	<4	<4	<4	<4	<4	<4		TM116 ^d	<4 ug/kg
p/m-Xylene	<14	<14	<14	<14	<14	<14	<14	<14		TM116 ^d	<14 ug/kg
Bromoform	<10	<10	<10	<10	<10	<10	<10	<10		TM116 ^d	<10 ug/kg
Styrene	<10	<10	<10	<10	<10	<10	<10	<10		TM116 ^d	<10 ug/kg
1,1,2,2-Tetrachloroethane	<10	<10	<10	<10	<10	<10	<10	<10		TM116 ^d	<10 ug/kg
o-Xylene	<10	<10	<10	<10	<10	<10	<10	<10		TM116 ^d	<10 ug/kg
1,2,3-Trichloropropane	<17	<17	<17	<17	<17	<17	<17	<17		TM116 ^d	<17 ug/kg
Isopropylbenzene	<5	<5	<5	<5	<5	<5	<5	<5		TM116 ^d	<5 ug/kg
Bromobenzene	<10	<10	<10	<10	<10	<10	<10	<10		TM116 ^d _M	<10 ug/kg
2-Chlorotoluene	<9	<9	<9	<9	<9	<9	<9	<9		TM116 ^d	<9 ug/kg
Propylbenzene	<11	<11	<11	<11	<11	<11	<11	<11		TM116 ^d	<11 ug/kg
4-Chlorotoluene	<12	<12	<12	<12	<12	<12	<12	<12		TM116 ^d	<12 ug/kg
1,2,4-Trimethylbenzene	<9	<9	<9	<9	<9	<9	<9	<9		TM116 ^d	<9 ug/kg
4-Isopropyltoluene	<11	<11	<11	<11	<11	<11	<11	<11		TM116 ^d	<11 ug/kg
1,3,5-Trimethylbenzene	<8	<8	<8	<8	<8	<8	<8	<8		TM116 ^d	<8 ug/kg
1,2-Dichlorobenzene	<12	<12	<12	<12	<12	<12	<12	<12		TM116 ^d _M	<12 ug/kg
1,4-Dichlorobenzene	<5	<5	<5	<5	<5	<5	<5	<5		TM116 ^d _M	<5 ug/kg
sec-Butylbenzene	<10	<10	<10	<10	<10	<10	<10	<10		TM116 ^d	<10 ug/kg
tert-Butylbenzene	<12	<12	<12	<12	<12	<12	<12	<12		TM116 ^d	<12 ug/kg
1,3-Dichlorobenzene	<6	<6	<6	<6	<6	<6	<6	<6		TM116 ^d	<6 ug/kg
n-Butylbenzene	<10	<10	<10	<10	<10	<10	<10	<10		TM116 ^d	<10 ug/kg
1,2-Dibromo-3-chloropropane	<14	<14	<14	<14	<14	<14	<14	<14		TM116 ^d	<14 ug/kg
1,2,4-Trichlorobenzene	<6	<6	<6	<6	<6	<6	<6	<6		TM116 ^d	<6 ug/kg
Naphthalene	<13	<13	<13	<13	<13	<13	<13	<13		TM116 ^d	<13 ug/kg
1,2,3-Trichlorobenzene	<11	<11	<11	<11	<11	<11	<11	<11		TM116 ^d	<11 ug/kg

All results expressed on a dry weight basis.

Date 06.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17891/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5376

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Subcon

Sample Identity	94341 BH29A WC1	94343 BH29A WC2	94345 BH29A WC3	94347 BH11 WC1	94349 BH11 WC2	94351 BH11 WC3	94353 BH11 WC4	94355 BH11 WC5		Method Code	LoD/Units
Depth (m)	5.8	6.5	8.0	5.0	6.0	7.5	8.5	10.0			
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID			
Sampled Date	23.10.08	23.10.08	23.10.08	22.10.08	22.10.08	22.10.08	23.10.08	23.10.08			
Sample Received Date	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08			
Batch	1	1	1	1	1	1	1	1			
Sample Number(s)	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40			
Arsenic Dissolved (NRA) (ICP-MS)	1.0	3.7	2.5	46	22	15	46	14		TM152	<0.75 ug/l
Boron Dissolved (NRA) (ICP-MS)	190	<20	120	160	740	550	100	130		TM152	<20 ug/l
Cadmium Dissolved (NRA) (ICP-MS)	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22		TM152	<0.22 ug/l
Chromium Dissolved (NRA) (ICP-MS)	1	<1	1	4	4	3	2	<1		TM152	<1 ug/l
Copper Dissolved (NRA) (ICP-MS)	3.5	<1.6	<1.6	4.0	3.2	1.9	<1.6	<1.6		TM152	<1.6 ug/l
Lead Dissolved (NRA) (ICP-MS)	0.7	<0.4	0.5	58	4.0	1.8	1.4	4.8		TM152	<0.4 ug/l
Nickel Dissolved (NRA) (ICP-MS)	<1.5	1.9	<1.5	5.8	2.2	3.1	2.7	1.6		TM152	<1.5 ug/l
Selenium Dissolved (NRA) (ICP-MS)	<1	<1	<1	<1	1	3	3	<1		TM152	<1 ug/l
Vanadium Dissolved (NRA) (ICP-MS)	3	14	3	130	53	69	140	16		TM152	<1 ug/l
Zinc Dissolved (NRA) (ICP-MS)	7	7	16	8	8	8	13	6		TM152	<5 ug/l
Mercury Dissolved (NRA) (CVAF)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		TM183	<0.01 ug/l
Sulphate (NRA)	50	<3	59	31	97	20	25	6		TM098	<3 mg/l
Phenols Monohydric (NRA)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		TM062	<0.01 mg/l
Total Cyanide (NRA)	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		TM153	<0.05 mg/l
pH (NRA)	7.07	7.99	7.67	8.69	8.56	8.52	8.44	8.51		TM133	<1.00 pH Units

Date 06.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 * Shown on prev. report

Job Number: 08/17891/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5376

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Subcon

Sample Identity	94341 BH29A WC1	94343 BH29A WC2	94345 BH29A WC3	94347 BH11 WC1	94349 BH11 WC2	94351 BH11 WC3	94353 BH11 WC4	94355 BH11 WC5		Method Code	LoD/Units
Depth (m)	5.8	6.5	8.0	5.0	6.0	7.5	8.5	10.0			
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID			
Sampled Date	23.10.08	23.10.08	23.10.08	22.10.08	22.10.08	22.10.08	23.10.08	23.10.08			
Sample Received Date	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08			
Batch	1	1	1	1	1	1	1	1			
Sample Number(s)	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40			
GRO (C4-C12) (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM089	<10 ug/l
MTBE (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM089	<10 ug/l
Benzene (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM089	<10 ug/l
Toluene (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM089	<10 ug/l
Ethyl benzene (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM089	<10 ug/l
m & p Xylene (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM089	<10 ug/l
o Xylene (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM089	<10 ug/l
Aliphatics C5-C6 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM089	<10 ug/l
Aliphatics >C6-C8 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM089	<10 ug/l
Aliphatics >C8-C10 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM089	<10 ug/l
Aliphatics >C10-C12 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM089	<10 ug/l
Aliphatics >C12-C16 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM174	<10 ug/l
Aliphatics >C16-C21 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM174	<10 ug/l
Aliphatics >C21-C35 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM174	<10 ug/l
Total Aliphatics C5-C35 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM61/89	<10 ug/l
Aromatics C6-C7 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM089	<10 ug/l
Aromatics >C7-C8 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM089	<10 ug/l
Aromatics >EC8-EC10 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM089	<10 ug/l
Aromatics >EC10-EC12 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM089	<10 ug/l
Aromatics >EC12-EC16 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM174	<10 ug/l
Aromatics >EC16-EC21 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM174	<10 ug/l
Aromatics >EC21-EC35 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM174	<10 ug/l
Total Aromatics C6-C35 (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM61/89	<10 ug/l
PH (Aliphatic and Aromatic C5-C35) (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM61/89	<10 ug/l

Date 06.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17891/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5376

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Subcon

Sample Identity	94341	94343	94345	94347	94349	94351	94353	94355			
	BH29A	BH29A	BH29A	BH11	BH11 WC2	BH11 WC3	BH11	BH11			
	WC1	WC2	WC3	WC1			WC4	WC5			
Depth (m)	5.8	6.5	8.0	5.0	6.0	7.5	8.5	10.0			
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID			
Sampled Date	23.10.08	23.10.08	23.10.08	22.10.08	22.10.08	22.10.08	23.10.08	23.10.08			
Sample Received Date	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08			
Batch	1	1	1	1	1	1	1	1			
Sample Number(s)	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40			
PAH by GCMS											
Naphthalene (NRA)	<100	<100	<100	<100	<100	<100	<100	<100		TM178	<100 ng/l
Acenaphthylene (NRA)	<11	<11	<11	<11	<11	<11	<11	<11		TM178	<11 ng/l
Acenaphthene (NRA)	<15	<15	<15	<15	<15	<15	<15	<15		TM178	<15 ng/l
Fluorene (NRA)	<14	<14	<14	<14	<14	<14	<14	<14		TM178	<14 ng/l
Phenanthrene (NRA)	<22	<22	64	29	<22	<22	<22	<22		TM178	<22 ng/l
Anthracene (NRA)	<15	<15	<15	22	<15	<15	<15	<15		TM178	<15 ng/l
Fluoranthene (NRA)	<17	<17	89	64	<17	18	<17	<17		TM178	<17 ng/l
Pyrene (NRA)	<15	<15	78	170	<15	17	<15	<15		TM178	<15 ng/l
Benzo(a)anthracene (NRA)	<17	<17	37	<17	<17	<17	<17	<17		TM178	<17 ng/l
Chrysene (NRA)	<13	<13	36	14	<13	<13	<13	<13		TM178	<13 ng/l
Benzo(b)fluoranthene (NRA)	<23	<23	39	<23	<23	<23	<23	<23		TM178	<23 ng/l
Benzo(k)fluoranthene (NRA)	<27	<27	34	<27	<27	<27	<27	<27		TM178	<27 ng/l
Benzo(a)pyrene (NRA)	<9	<9	51	<9	<9	<9	<9	<9		TM178	<9 ng/l
Indeno(1,2,3cd)pyrene (NRA)	<14	<14	24	<14	<14	<14	<14	<14		TM178	<14 ng/l
Dibenzo(ah)anthracene (NRA)	<16	<16	<16	<16	<16	<16	<16	<16		TM178	<16 ng/l
Benzo(ghi)perylene (NRA)	<16	<16	34	<16	<16	<16	<16	<16		TM178	<16 ng/l
PAH 16 Total (NRA)	<100	<100	510	300	<100	<100	<100	<100		TM178	<100 ng/l

Date 06.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17891/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5376

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Subcon

Sample Identity	94341 BH29A WC1	94343 BH29A WC2	94345 BH29A WC3	94347 BH11 WC1	94349 BH11 WC2	94351 BH11 WC3	94353 BH11 WC4	94355 BH11 WC5		Method Code	LoD/Units
Depth (m)	5.8	6.5	8.0	5.0	6.0	7.5	8.5	10.0			
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID			
Sampled Date	23.10.08	23.10.08	23.10.08	22.10.08	22.10.08	22.10.08	23.10.08	23.10.08			
Sample Received Date	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08			
Batch	1	1	1	1	1	1	1	1			
Sample Number(s)	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40			
OCP/OPP											
Dichlorvos (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM144/145	<10 ng/l
Mevinphos (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM144/145	<10 ng/l
Alpha-BHC (Lindane) (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM144/145	<10 ng/l
Beta-BHC (Lindane) (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM144/145	<10 ng/l
Gamma-BHC (Lindane) (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM144/145	<10 ng/l
Diazinon (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM144/145	<10 ng/l
Methyl Parathion (NRA)	<100	<100	<100	<100	<100	<100	<100	<100		TM144/145	<10 ng/l
Heptachlor (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM144/145	<10 ng/l
Fenitrothion (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM144/145	<10 ng/l
Malathion (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM144/145	<10 ng/l
Aldrin (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM144/145	<10 ng/l
Parathion (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM144/145	<10 ng/l
Heptachlor Epoxide (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM144/145	<10 ng/l
Endosulphan I (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM144/145	<10 ng/l
p,p'-DDE (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM144/145	<10 ng/l
Dieldrin (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM144/145	<10 ng/l
Endrin (NRA)	<100	<100	<100	<100	<100	<100	<100	<100		TM144/145	<10 ng/l
Endosulphan II (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM144/145	<10 ng/l
p,p'-DDE(DDD) (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM144/145	<10 ng/l
Ethion (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM144/145	<10 ng/l
p,p'-DDT (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM144/145	<10 ng/l
Endosulphan sulphate (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM144/145	<10 ng/l
p,p'-Methoxychlor (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM144/145	<10 ng/l
Azinphos methyl (NRA)	<100	<100	<100	<100	<100	<100	<100	<100		TM144/145	<10 ng/l

Date 06.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17891/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5376

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Subcon

Sample Identity	94341 BH29A WC1	94343 BH29A WC2	94345 BH29A WC3	94347 BH11 WC1	94349 BH11 WC2	94351 BH11 WC3	94353 BH11 WC4	94355 BH11 WC5		Method Code	LoD/Units
Depth (m)	5.8	6.5	8.0	5.0	6.0	7.5	8.5	10.0			
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID			
Sampled Date	23.10.08	23.10.08	23.10.08	22.10.08	22.10.08	22.10.08	23.10.08	23.10.08			
Sample Received Date	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08			
Batch	1	1	1	1	1	1	1	1			
Sample Number(s)	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40			
SVOC by GCMS											
Phenols											
2-Chlorophenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
2-Methylphenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
2-Nitrophenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
2,4-Dichlorophenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
2,4-Dimethylphenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
2,4,5-Trichlorophenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
2,4,6-Trichlorophenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
4-Chloro-3-methylphenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
4-Methylphenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
4-Nitrophenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
Pentachlorophenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<2		TM176	<1 ug/l
Phenol (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l

Date 06.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17891/02/01
Client: Envirolab
Client Ref. No.: 722201-5376

Matrix: LEACHATE
Location: SIZEWELL C
Client Contact: Subcon

Sample Identity	94341 BH29A WC1	94343 BH29A WC2	94345 BH29A WC3	94347 BH11 WC1	94349 BH11 WC2	94351 BH11 WC3	94353 BH11 WC4	94355 BH11 WC5		Method Code	LoD/Units
Depth (m)	5.8	6.3	8.0	5.0	6.0	7.5	8.5	10.0			
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID			
Sampled Date	23.10.08	23.10.08	23.10.08	22.10.08	22.10.08	22.10.08	23.10.08	23.10.08			
Sample Received Date	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08			
Batch	1	1	1	1	1	1	1	1			
Sample Number(s)	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40			
PAHs											
2-Chloronaphthalene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
2-Methylnaphthalene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
Phthalates											
Bis(2-ethylhexyl) phthalate (NRA)	<10	<10	<10	<10	<10	<10	<10	<10		TM176	<1 ug/l
Butylbenzyl phthalate (NRA)	<6	<6	<6	<6	<6	<6	<6	<6		TM176	<1 ug/l
Di-n-butyl phthalate (NRA)	<4	<4	<4	<4	<4	<4	<4	<4		TM176	<1 ug/l
Di-n-Octyl phthalate (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
Diethyl phthalate (NRA)	<2	<2	<2	<2	<2	<2	<2	<2		TM176	<1 ug/l
Dimethyl phthalate (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
Other Semi-volatiles											
1,2-Dichlorobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
1,2,4-Trichlorobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
1,3-Dichlorobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
1,4-Dichlorobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
2-Nitroaniline (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
2,4-Dinitrotoluene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
2,6-Dinitrotoluene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
3-Nitroaniline (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
4-Bromophenylphenylether (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
4-Chloroaniline (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
4-Chlorophenylphenylether (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
4-Nitroaniline (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
Azobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
Bis(2-chloroethoxy)methane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
Bis(2-chloroethyl)ether (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
Carbazole (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
Dibenzofuran (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
Hexachlorobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l

Date 06.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services
Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 * Shown on prev. report

Job Number: 08/17891/02/01
Client: Envirolab
Client Ref. No.: 722201-5376

Matrix: LEACHATE
Location: SIZEWELL C
Client Contact: Subcon

Sample Identity	94341 BH29A WC1	94343 BH29A WC2	94345 BH29A WC3	94347 BH11 WC1	94349 BH11 WC2	94351 BH11 WC3	94353 BH11 WC4	94355 BH11 WC5		Method Code	LoD/Units
Depth (m)	5.8	6.5	8.0	5.0	6.0	7.5	8.5	10.0			
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID			
Sampled Date	23.10.08	23.10.08	23.10.08	22.10.08	22.10.08	22.10.08	23.10.08	23.10.08			
Sample Received Date	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08			
Batch	1	1	1	1	1	1	1	1			
Sample Number(s)	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40			
Other Semi-volatiles (cont)											
Hexachlorobutadiene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
Hexachlorocyclopentadiene (NRA)	<2	<2	<2	<2	<2	<2	<2	<2		TM176	<1 ug/l
Hexachloroethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
Isophorone (NRA)	<2	<2	<2	<2	<2	<2	<2	<2		TM176	<1 ug/l
N-nitrosodi-n-propylamine (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l
Nitrobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM176	<1 ug/l

Date 06.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/17891/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5376

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Subcon

Sample Identity	94341 BH29A WC1	94343 BH29A WC2	94345 BH29A WC3	94347 BH11 WC1	94349 BH11 WC2	94351 BH11 WC3	94353 BH11 WC4	94355 BH11 WC5		Method Code	LoD/Units
Depth (m)	5.8	6.5	8.0	5.0	6.0	7.5	8.5	10.0			
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID			
Sampled Date	23.10.08	23.10.08	23.10.08	22.10.08	22.10.08	22.10.08	23.10.08	23.10.08			
Sample Received Date	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08			
Batch	1	1	1	1	1	1	1	1			
Sample Number(s)	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40			
Volatile Organic Compounds											
Dichlorodifluoromethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Chloromethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Vinyl Chloride (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Bromomethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Chloroethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Trichlorofluoromethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
trans-1,2-Dichloroethene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Dichloromethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Carbon Disulphide (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
1,1-Dichloroethene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
1,1-Dichloroethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Methyl Tertiary Butyl Ether (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
cis-1,2-Dichloroethene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Bromochloromethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Chloroform (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
2,2-Dichloropropane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
1,2-Dichloroethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
1,1,1-Trichloroethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
1,1-Dichloropropene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Benzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Carbon tetrachloride (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Dibromomethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
1,2-Dichloropropane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Bromodichloromethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Trichloroethene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
cis-1,3-Dichloropropene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
trans-1,3-Dichloropropene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
1,1,2-Trichloroethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Toluene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
1,3-Dichloropropane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l

Date 06.11.2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 > Shown on prev. report

Job Number: 08/17891/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5376

Matrix: LEACHATE
 Location: SIZEWELL C
 Client Contact: Subcon

Sample Identity	94341 BH29A WC1	94343 BH29A WC2	94345 BH29A WC3	94347 BH11 WC1	94349 BH11 WC2	94351 BH11 WC3	94353 BH11 WC4	94355 BH11 WC5		Method Code	LoD/Units
Depth (m)	5.8	6.5	8.0	5.0	6.0	7.5	8.5	10.0			
Sample Type	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID			
Sampled Date	23.10.08	23.10.08	23.10.08	22.10.08	22.10.08	22.10.08	23.10.08	23.10.08			
Sample Received Date	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08	27.10.08			
Batch	1	1	1	1	1	1	1	1			
Sample Number(s)	1-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40			
Volatile Organic Compounds (cont)											
Dibromochloromethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
1,2-Dibromoethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Tetrachloroethene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
1,1,1,2-Tetrachloroethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Chlorobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Ethylbenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
p/m-Xylene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Bromoform (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Styrene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
1,1,2,2-Tetrachloroethane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
o-Xylene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
1,2,3-Trichloropropane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Isopropylbenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Bromobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
2-Chlorotoluene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Propylbenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
4-Chlorotoluene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
1,2,4-Trimethylbenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
4-Isopropyltoluene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
1,3,5-Trimethylbenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
1,2-Dichlorobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
1,4-Dichlorobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
sec-Butylbenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
tert-Butylbenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
1,3-Dichlorobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
n-Butylbenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
1,2-Dibromo-3-chloropropane (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
1,2,4-Trichlorobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
Naphthalene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l
1,2,3-Trichlorobenzene (NRA)	<1	<1	<1	<1	<1	<1	<1	<1		TM208	<1 ug/l

Date 06.11.2008

ALcontrol Laboratories Analytical Services

Table Of Results - Appendix

Job Number: 08/17891/02/01
Client: Envirolab
Client Ref. No.: 722201-5376

Report Key :

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03×10^{-7}

NDP	No Determination Possible	*	Subcontracted test
NFD	No Fibres Detected	»	Result previously reported (Incremental reports only)
#	ISO 17025 accredited	M	MCERTS Accredited
PPD	Possible Fibres Detected	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control.

Summary of Method Codes contained within report :

Method No.	Reference	Description	ISO 17025 Accredited	MCERTS Accredited	Wet/Dry Sample ¹	Surrogate Corrected
TM001	In - house Method	Screening of Soils for Fibres			WET	
TM018	BS 1377: Part 3 1990	Determination of Loss on Ignition	✓	✓	WET	
TM062	MEWAM BOOK 124 1988.HMSO/ Method 17.7, Second Site property, March 2003	Determination of Phenolic compounds by HPLC with electro-chemical detection			NA	
TM062	MEWAM BOOK 124 1988.HMSO/ Method 17.7, Second Site property, March 2003	Determination of Phenolic compounds by HPLC with electro-chemical detection	✓	✓	WET	
TM068	ASTM D-1552	Total sulphur determination by combustion method	✓		DRY	
TM089	Modified: US EPA Methods 8020 & 602	Determination of Gasoline Range Hydrocarbons (GRO) and BTEX (MTBE) compounds by Headspace GC-FID (C4-C12)			NA	
TM098	Method 4500E, AWWA/APHA, 20th Ed., 1999	Determination of Sulphate using the Kone Analyser			NA	
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS			WET	
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS	✓		WET	
TM116	Modified: US EPA Method 8260, 8120, 8020, 624, 610 & 602	Determination of Volatile Organic Compounds by Headspace / GC-MS	✓	✓	WET	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer			DRY	
TM129	Method 3120B, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 3050B	Determination of Metal Cations by IRIS Emission Spectrometer	✓	✓	DRY	
TM132	In - house Method	ELTRA CS800 Operators Guide	✓		DRY	
TM133	BS 1377: Part 3 1990; BS 6068-2.5	Determination of pH in Soil and Water using the GL pH pH Meter			NA	

¹ Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

ALcontrol Laboratories Analytical Services

Table Of Results - Appendix

Job Number: 08/17891/02/01
Client: Envirolab
Client Ref. No.: 722201-5376

Report Key :

Results expressed as (e.g.) 1.03E-07 is equivalent to 1.03x10⁻⁷

NDP	No Determination Possible	*	Subcontracted test
NFD	No Fibres Detected	»	Result previously reported (Incremental reports only)
#	ISO 17025 accredited	M	MCERTS Accredited
PF	Possible Fibres Detected	EC	Equivalent Carbon (Aromatics C8-C35)

Note: Method detection limits are not always achievable due to various circumstances beyond our control.

Summary of Method Codes contained within report :

Method No.	Reference	Description	ISO 17025 Accredited	MCERTS Accredited	Wet/Dry Sample ¹	Surrogate Corrected
TM133	BS 1377: Part 3 1990;BS 6068-2.5	Determination of pH in Soil and Water using the GLpH pH Meter	✓	✓	WET	
TM144/145		Organochlorine and Organophosphorus pesticides by GC-MS			DRY	
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS			NA	
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the "Skalar SANS+ System" Segmented Flow Analyser			NA	
TM153	Method 4500A,B,C, I, M AWWA/APHA, 20th Ed., 1999	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the "Skalar SANS+ System" Segmented Flow Analyser	✓	✓	WET	
TM157		Determination of SVOC in Soils by GC-MS extracted by sonication in DCM/Acetone			WET	
TM174		Determination of Speciated Extractable Petroleum Hydrocarbons in Waters by GC-FID			NA	
TM176		Determination of SVOCs in Water by GCMS			NA	
TM178	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters			NA	
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry			NA	
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters			NA	
TM61/89		see TM061 and TM089 for details			NA	

¹ Applies to Solid samples only. **DRY** indicates samples have been dried at 35°C. **NA** = not applicable.



Date: 10 November 2008
Your Ref: 722201
Our Ref: 722201-(5390)-060
Project Manager: Stephen Mackereth
Report to: John Wild

Envirolab
Units 7 & 8
Sandpits Business Park
Mottram Road
Hyde
Cheshire
SK14 3AR

Final Test Report

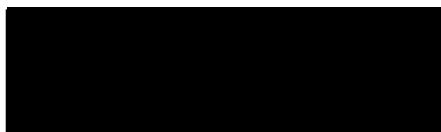
Sample(s) of Soil from Sizewell C
Received from Structural Soils Ltd
The Old School, Stillhouse Lane, Bristol, BS3 4EB

Date of receipt: 29 October 2008
Date analysis commenced: 29 October 2008
Date analysis completed: 06 November 2008

Method Statement

Subcontract analysis was submitted to a laboratory on Envirolab's approved vendors list. A copy of the report is attached, accreditation status is detailed on the report.

Prepared by:



Melanie Marshall
Laboratory Co-ordinator

Approved by:



Gill Scott
Laboratory Manager

Analytical results reflect the quality of the sample at the time of analysis only.

Report No. 722201-060-(5390)
Site Name: Sizewell C
10/11/2008

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/18121/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5390

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Subcon

Sample Identity	94877 BH112	94880 BH13A								Method Code	LoD/Units
Depth (m)	7.0	9.5									
Sample Type	SOLID	SOLID									
Sampled Date	28.10.08	23.10.08									
Sample Received Date	30.10.08	30.10.08									
Batch	1	1									
Sample Number(s)	1-2	3-4									
Arsenic	6	22								TM129 ^M	<3.0 mg/kg
Cadmium	<0.2	0.2								TM129	<0.2 mg/kg
Chromium	30	18								TM129 ^M	<4.5 mg/kg
Copper	13	14								TM129 ^M	<6 mg/kg
Lead	20	26								TM129 ^M	<2 mg/kg
Mercury	0.6	0.6								TM129 ^M	<0.4 mg/kg
Nickel	23	17								TM129 ^M	<0.9 mg/kg
Zinc	58	55								TM129 ^M	<2.5 mg/kg
Total Alkalinity as CaCO ₃	670	730								TM043	<10 mg/kg

All results expressed on a dry weight basis.

Date 06.11.2008



Date: 07 January 2009
Your Ref: 722201
Our Ref: 722201-(5390)-061
Project Manager: Stephen Mackereth
Report to: John Wild

Envirolab
Units 7 & 8
Sandpits Business Park
Mottram Road
Hyde
Cheshire
SK14 3AR

Supplemental to Final Test Report 722201-(5390)-060

Sample(s) of Soil from Sizewell C.
Received from Structural Soils Ltd
The Old School, Stillhouse Lane, Bristol, BS3 4EB

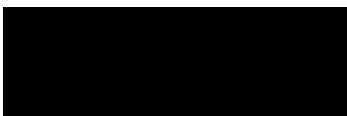
Date of receipt: 29 October 2008
Date analysis commenced: 29 October 2008
Date analysis completed: 07 January 2009

Method Statement

Subcontract analysis was submitted to a laboratory on Envirolab's approved vendors list.
A copy of the report is attached, accreditation status is detailed on the report.

Supplemental report issued to include additional subcontract results.

Prepared by:



Thi McNabb
Reporting Analytical Chemist

Approved by:



Louise Adams
Associate Director - Operations

Analytical results reflect the quality of the sample at the time of analysis only.

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 * MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/18121/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5390

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Subcon

Sample Identity	94877 BH12	94880 BH13A									Method Code	LoD/Units
Depth (m)	7.0	9.5										
Sample Type	SOLID	SOLID										
Sampled Date	28.10.08	23.10.08										
Sample Received Date	30.10.08	30.10.08										
Batch	1	1										
Sample Number(s)	1-2	3-4										
Arsenic	6	22									TM129 ^f _M	<3.0 mg/kg
Cadmium	<0.2	0.2									TM129	<0.2 mg/kg
Chromium	30	18									TM129 ^f _M	<4.5 mg/kg
Copper	13	14									TM129 ^f _M	<6 mg/kg
Lead	20	26									TM129 ^f _M	<2 mg/kg
Mercury	0.6	0.6									TM129 ^f _M	<0.4 mg/kg
Nickel	23	17									TM129 ^f _M	<0.9 mg/kg
Zinc	58	55									TM129 ^f _M	<2.5 mg/kg
Total Alkalinity as CaCO ₃	710	780									TM643	<10 mg/kg
Conductivity (at 20 deg C)	16	12									TM120 ^f	<0.014 mS/cm
Sodium	14000	13000									TM083	<4 mg/kg
Chloride (soluble)	13000	11000									TM097 ^f _M	<2 mg/kg
Loss on Ignition	39	57									TM018 ^f _M	<0.3 %
pH Value	5.59	5.33									TM133 ^f _M	<1.00 pH Units

All results expressed on a dry weight basis.

Date 07.01.2009

Date: 14 November 2008
Your Ref: 722201 - PO: 6812
Our Ref: 722201-(5419)-070
Project Manager: Steve Mackereth
Report to: John Wild

Envirolab
Units 7 & 8
Sandpits Business Park
Mottram Road
Hyde
Cheshire
SK14 3AR

Final Test Report

Sample(s) of Soil from Sizewell C.
Received from Structural Soils Ltd
The Old School, Stillhouse Lane, Bristol, BS3 4EB

Date of receipt: 06 November 2008
Date analysis commenced: 06 November 2008
Date analysis completed: 13 November 2008

Method Statement

Subcontract analysis was submitted to a laboratory on Envirolab's approved vendors list. A copy of the report is attached, accreditation status is detailed on the report.

Prepared by:



Melanie Marshall
Laboratory Co-ordinator

Approved by:



Louise Adams
Associate Director - Operations

Analytical results reflect the quality of the sample at the time of analysis only.

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/18466/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5419

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	95281 BH9 D	95284 BH14 D	95286 BH21 D	95290 BH22 D							Method Code	LoD/Units
Depth (m)	5.0	8.0	5.0	10.0								
Sample Type	SOLID	SOLID	SOLID	SOLID								
Sampled Date	31.10.08	31.10.08	31.10.08	31.10.08								
Sample Received Date	06.11.08	06.11.08	06.11.08	06.11.08								
Batch	1	1	1	1								
Sample Number(s)	1-2	3-4	5-6	7-8								
Arsenic	<3	9	4	43							TM129 st	<3.0 mg/kg
Cadmium	0.6	<0.2	<0.2	<0.2							TM129	<0.2 mg/kg
Chromium	9.1	11	13	<4.5							TM129 st	<4.5 mg/kg
Copper	9	6	8	<6							TM129 st	<6 mg/kg
Lead	7	6	7	13							TM129 st	<2 mg/kg
Mercury	<0.4	<0.4	<0.4	<0.4							TM129 st	<0.4 mg/kg
Nickel	7.8	11	13	5.2							TM129 st	<0.9 mg/kg
Zinc	120	23	36	22							TM129 st	<2.5 mg/kg
Carbonate Alkalinity as CaCO3	<10	<10	<10	<10							TM043	<10 mg/kg

All results expressed on a dry weight basis.

Date 13.11.2008

Date: 07 January 2009
Your Ref: 722201 - PO. 6812
Our Ref: 722201-(5419)-071
Project Manager: Steve Mackereth
Report to: John Wild

Envirolab
Units 7 & 8
Sandpits Business Park
Mottram Road
Hyde
Cheshire
SK14 3AR

Supplemental to Final Test Report 722201-(5419)-070

Sample(s) of Soil from Sizewell C.
Received from Structural Soils Ltd
The Old School, Stillhouse Lane, Bristol, BS3 4EB

Date of receipt: 06 November 2008
Date analysis commenced: 06 November 2008
Date analysis completed: 07 January 2009

Method Statement

Subcontract analysis was submitted to a laboratory on Envirolab's approved vendors list.
A copy of the report is attached, accreditation status is detailed on the report.

Supplemental report issued to include additional subcontract results.

Prepared by:



Thi McNabb
Reporting Analytical Chemist

Approved by:



Louise Adams
Associate Director - Operations

Analytical results reflect the quality of the sample at the time of analysis only.

Validated
 Preliminary

ALcontrol Laboratories Analytical Services

Table Of Results

* ISO 17025 accredited
 M MCERTS accredited
 * Subcontracted test
 » Shown on prev. report

Job Number: 08/18466/02/01
 Client: Envirolab
 Client Ref. No.: 722201-5419

Matrix: SOLID
 Location: SIZEWELL C
 Client Contact: Envirolab Data

Sample Identity	95281 BH9 D	95284 BH14 D	95286 BH21 D	95290 BH22 D									Method Code	Lod/Units
Depth (m)	5.0	8.0	5.0	10.0										
Sample Type	SOLID	SOLID	SOLID	SOLID										
Sampled Date	31.10.08	31.10.08	31.10.08	31.10.08										
Sample Received Date	06.11.08	06.11.08	06.11.08	06.11.08										
Batch	1	1	1	1										
Sample Number(s)	1-2	3-4	5-6	7-8										
Arsenic	<3	9	4	43									TM129 ^M	<3.0 mg/kg
Cadmium	0.6	<0.2	<0.2	<0.2									TM129	<0.2 mg/kg
Chromium	9.1	11	13	<4.5									TM129 ^M	<4.5 mg/kg
Copper	9	6	8	<6									TM129 ^M	<6 mg/kg
Lead	7	6	7	13									TM129 ^M	<2 mg/kg
Mercury	<0.4	<0.4	<0.4	<0.4									TM129 ^M	<0.4 mg/kg
Nickel	7.8	11	13	5.2									TM129 ^M	<0.9 mg/kg
Zinc	120	23	36	22									TM129 ^M	<2.5 mg/kg
Carbonate Alkalinity as CaCO ₃	<10	<10	<10	<10									TM043	<10 mg/kg
Conductivity (at 20 deg.C)	NDP	4.1	17	7.6									TM120 ^M	<0.014 mS/cm
Sodium	13000	2100	13000	5500									TM083	<4 mg/kg
Chloride (soluble)	NDP	850	11000	4800									TM097 ^M	<2 mg/kg
Loss on Ignition	65	60	62	60									TM018 ^M	<0.3 %
pH Value	5.49	5.78	7.54	5.10									TM133 ^M	<1.00 pH Units

All results expressed on a dry weight basis.

Date 07.01.2009

Structural Soils Limited
The Old School
Stillhouse Lane
Bedminster, Bristol
BS3 4EB

FAO John Wild
10 November 2008

Dear John Wild

Test Report Number 56190
Your Project Reference Sizewell SI

Please find enclosed the results of analysis for the samples received 31 October 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely



Authorised Signatory

<input type="checkbox"/> Darrell Hall	Laboratory Manager
<input type="checkbox"/> Phil Hallier	Operations Director
<input type="checkbox"/> Keith Jones	Technical Development Manager
<input type="checkbox"/> John Crawford	Quality Manager
<input type="checkbox"/> Malcolm Avis	Technical Director

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked N do not currently hold accreditation*
- *Test marked S were subcontracted to an approved laboratory*
- *ne means 'not evaluated'*
- *is means 'insufficient sample'*
- *us means 'unsuitable sample'*
- *The results relate only to the items tested*

Test Report 56190 Cover Sheet

Structural Soils Limited
 The Old School
 Stillhouse Lane
 Bedminster, Bristol
 BS3 4EB

LABORATORY TEST REPORT



Report Date
 10 November 2008

Results of analysis of 27 samples
 received 31 October 2008

Sizewell SI

FAO John Wild

Login Batch No

Chemtest LMSID

Sample ID

Sample No

Depth

Matrix

SOP ↓ Determinand ↓

CAS No ↓

Units ↓

Miscellaneous subcontracted analysis

56190

AD60000	AD60001	AD60002	AD60003	AD60004	AD60005	AD60006	AD60007
94876	94878	94879	94262	93846	93847	93849	93765
BH12	BH12	BH13A	BH24	BH19A	BH19A	BH19A	BH20
5.3	11	8	8	5.5	7.5	9.4	8.6
SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached

All tests undertaken between 10-Nov-2008 and 10-Nov-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 1

Report page 1 of 1

Report sample ID range AD60000 to AD60026

Structural Soils Limited
 The Old School
 Stillhouse Lane
 Bedminster, Bristol
 BS3 4EB

LABORATORY TEST REPORT



Report Date
 10 November 2008

Results of analysis of 27 samples
 received 31 October 2008

FAO John Wild

Sizewell SI

Login Batch No

56190

Chemtest IMS ID

	AD60008	AD60009	AD60010	AD60011	AD60012	AD60013	AD60014	AD60015
Sample ID	93868	93871	93872	93874	93875	93877	93878	93879
Sample No	BH10A	BH03	BH03	BH16	BH16	BH8	BH8	BH6
Depth	5.5	7.8	8.3	8	9.5	6.2	9.5	4.8
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
SOP↓	Miscellaneous subcontracted analysis							
Determinand↓								
CAS No↓								
Units↓								
	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached

All tests undertaken between 10-Nov-2008 and 10-Nov-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 2

Report page 1 of 1

Report sample ID range AD60008 to AD60026

Structural Soils Limited
 The Old School
 Stillhouse Lane
 Bedminster, Bristol
 BS3 4EB

LABORATORY TEST REPORT



Report Date
 10 November 2008

Results of analysis of 27 samples
 received 31 October 2008

FAO · John Wild

Sizewell SI

Login Batch No

56190

Chemical SID

	AD60016	AD60017	AD60018	AD60019	AD60020	AD60021	AD60022	AD60023
Sample ID	93881	93882	93479	93481	93488	93489	93491	93492
Sample No	BH6	BH6	BH1	BH1	BH5	BH5	BH17	BH17
Depth	6	7.2	5.2	8	6.45	6	8.5	9.5
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
SOP ↓ Determinand ↓								
Miscellaneous subcontracted analysis	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached	See Attached

All tests undertaken between 10-Nov-2008 and 10-Nov-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 3

Report page 1 of 1

Report sample ID range AD60000 to AD60026

Structural Soils Limited
The Old School
Stillhouse Lane
Bedminster, Bristol
BS3 4EB

LABORATORY TEST REPORT

 Chemtest

Report Date
10 November 2008

Results of analysis of 27 samples
received 31 October 2008

Sizewell SI

FAO John Wild

Login Batch No

56190

Chemtest LIMS ID

AD60024

AD60025

AD60026

Sample ID

93494

93495

93497

Sample No

BH25

BH25

BH25

Depth

7

7.5

8.15

Matrix

SOIL

SOIL

SOIL

SOP ↓ Determinand ↓

CAS No ↓

Units ↓

Miscellaneous subcontracted analysis

See Attached

See Attached

See Attached

All tests undertaken between 10-Nov-2008 and 10-Nov-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 4

Report page 1 of 1

Report sample ID range AD60000 to AD60026

Contact : ALEXANDRA JEPSEN
 CHEMTEST
 DEPOT ROAD
 NEWMARKET
 SUFFOLK
 CB8 0AP
 Tel. : 01638 606070

F446

Client : AD60000 TO AD60009

Please quote the above code for all enquiries

Sample Matrix : Agricultural Soil

Laboratory Reference

Card Number 22168/08

Date Received 04-Nov-08

Date Reported 07-Nov-08

SOIL ANALYSIS REPORT

Laboratory Sample Reference	Field Details			Index			mg/l (Available)		
	No.	Name or O.S. Reference with Cropping Details	Soil pH	P	K	Mg	P	K	Mg
94133/08	1	AD60000 <i>No cropping details given</i>	7.5	0	2+	7	7.6	202	713
94134/08	2	AD60001 <i>No cropping details given</i>	5.6	0	0	4	4.6	54	248
94135/08	3	AD60002 <i>No cropping details given</i>	7.5	0	4	7	7.6	523	801
94136/08	4	AD60003 <i>No cropping details given</i>	6.3	0	0	6	4.0	31	498
94137/08	5	AD60004 <i>No cropping details given</i>	7.4	0	2+	6	4.4	210	593
94138/08	6	AD60005 <i>No cropping details given</i>	7.2	0	1	6	4.0	109	364

If general fertiliser and lime recommendations have been requested, these are given on the following sheets.

The analytical methods used are as described in DEFRA Reference Book 427

The index values are determined from the DEFRA Fertiliser Recommendations RE209 7th Edition (Appendix 4).

Released by

On behalf of NRM Ltd

Date

07/11/08



Contact : ALEXANDRA JEPSEN
 CHEMTEST
 DEPOT ROAD
 NEWMARKET
 SUFFOLK
 CB8 0AP
 Tel. : 01638 606070

F446

Please quote the above code for all enquiries

Sample Matrix : Agricultural Soil

Client : AD60000 TO AD60009

Laboratory Reference

Card Number 22168/08

Date Received 04-Nov-08

Date Reported 07-Nov-08

Samples will be stored until 04-DEC-2008

SOIL ANALYSIS REPORT

Laboratory Sample Reference	Field Details			Soil pH	Index			mg/l (Available)		
	No.	Name or O.S. Reference with Cropping Details			P	K	Mg	P	K	Mg
94139/08	7	AD60006 <i>No cropping details given</i>		5.7	0	0	3	4.4	45	138
94140/08	8	AD60007 <i>No cropping details given</i>		7.5	0	2-	5	5.0	149	321
94141/08	9	AD60008 <i>No cropping details given</i>		6.6	0	0	3	4.2	30	139
94142/08	10	AD60009 <i>No cropping details given</i>		6.5	0	0	3	4.2	17	154

If general fertiliser and lime recommendations have been requested, these are given on the following sheets.

The analytical methods used are as described in DEFRA Reference Book 427

The index values are determined from the DEFRA Fertiliser Recommendations RB209 7th Edition (Appendix 4).

Released by

On behalf of NRM Ltd

Date

07/11/08

MICRO NUTRIENT REPORT

DATE 7th November 2008
SAMPLES FROM AD60000 TO AD60009

ALEXANDRA JEPSEN
CHEMTEST
DEPOT ROAD
NEWMARKET
SUFFOLK
CB8 0AP
Tel: 01638 606070
Fax: 01638 606071

Reference: 22168/94133/08-1	Field Name: AD60000	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		4512

Reference: 22168/94134/08-1	Field Name: AD60001	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		3258

Reference: 22168/94135/08-1	Field Name: AD60002	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		7925

Reference: 22168/94135/08-1	Field Name: AD60003	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		2116

Reference: 22168/94137/08-1	Field Name: AD60004	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		4311

Reference: 22168/94138/08-1	Field Name: AD60005	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		3441

Reference: 22168/94139/08-1	Field Name: AD60006	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		2978

Reference: 22168/94140/08-1	Field Name: AD60007	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		3579

Reference: 22168/94141/08-1	Field Name: AD60008	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		2296

Reference: 22168/94142/08-1	Field Name: AD60009	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		2410

Contact : ALEXANDRA JEPSEN
 CHEMTEST
 DEPOT ROAD
 NEWMARKET
 SUFFOLK
 CB8 0AP
 Tel. : 01638 606070

F446

Please quote the above code for all enquiries

Client : AD60010 TO AD60019

Laboratory Reference

Card Number 22169/08

Date Received 04-Nov-08

Date Reported 10-Nov-08

Sample Matrix : Agricultural Soil

SOIL ANALYSIS REPORT

Laboratory Sample Reference	Field Details			Index			mg/l (Available)		
	No.	Name or O.B. Reference with Cropping Details	Soil pH	P	K	Mg	P	K	Mg
94143/08	1	AD60010 <i>No cropping details given</i>	5.6	0	0	3	4.4	10	132
94144/08	2	AD60011 <i>No cropping details given</i>	6.9	0	3	6	5.4	350	581
94145/08	3	AD60012 <i>No cropping details given</i>	5.8	0	1	5	5.4	69	295
94146/08	4	AD60013 <i>No cropping details given</i>	7.6	0	4	7	6.6	597	753
94147/08	5	AD60014 <i>No cropping details given</i>	6.0	0	1	6	5.2	95	455
94148/08	6	AD60015 <i>No cropping details given</i>	5.0	0	2-	6	5.0	147	506

If general fertiliser and lime recommendations have been requested, these are given on the following sheets.

The analytical methods used are as described in DEFRA Reference Book 427

The index values are determined from the DEFRA Fertiliser Recommendations RB209 7th Edition (Appendix 4).

Released by On behalf of NRM Ltd Date 10/11/08



Contact : ALEXANDRA JEPSEN
 CHEMTEST
 DEPOT ROAD
 NEWMARKET
 SUFFOLK
 CB8 0AP
 Tel. : 01638 606070

Client : AD60010 TO AD60019

F446

Please quote the above code for all enquiries

Sample Matrix : Agricultural Soil

Laboratory Reference
 Card Number 22169/08

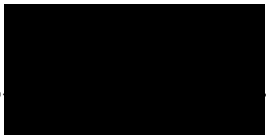
Date Received 04-Nov-08
 Date Reported 10-Nov-08

Samples will be stored until 04-DEC-2008

SOIL ANALYSIS REPORT

Laboratory Sample Reference	Field Details			Index			mg/l (Available)		
	No.	Name or O.S. Reference with Cropping Details	Soil pH	P	K	Mg	P	K	Mg
94149/08	7	AD60016 <i>No cropping details given</i>	6.8	0	0	4	4.0	35	197
94150/08	8	AD60017 <i>No cropping details given</i>	6.4	0	0	3	4.6	20	135
94151/08	9	AD60018 <i>No cropping details given</i>	7.1	0	2+	7	4.4	211	734
94152/08	10	AD60019 <i>No cropping details given</i>	6.2	0	1	6	4.2	88	550

*If general fertiliser and lime recommendations have been requested, these are given on the following sheets.
 The analytical methods used are as described in DEFRA Reference Book 427
 The Index values are determined from the DEFRA Fertiliser Recommendations RB209 7th Edition (Appendix 4).*

Released by  On behalf of NRM Ltd Date 10/11/08

MICRO NUTRIENT REPORT

DATE 10th November 2008
SAMPLES FROM AD60010 TO AD60019

ALEXANDRA JEPSEN
CHEMTEST
DEPOT ROAD
NEWMARKET
SUFFOLK
CB8 0AP
Tel: 01638 606070
Fax: 01638 606071

Reference: 22169/94143/08-1	Field Name: AD60010	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		2576
Reference: 22169/94144/08-1	Field Name: AD60011	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		5906
Reference: 22169/94145/08-1	Field Name: AD60012	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		3958
Reference: 22169/94146/08-1	Field Name: AD60013	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		6167
Reference: 22169/94147/08-1	Field Name: AD60014	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		4324
Reference: 22169/94148/08-1	Field Name: AD60015	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		3000
Reference: 22169/94149/08-1	Field Name: AD60016	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		2334
Reference: 22169/94150/08-1	Field Name: AD60017	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		2506
Reference: 22169/94151/08-1	Field Name: AD60018	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		4387
Reference: 22169/94152/08-1	Field Name: AD60019	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		4006

DATE 10th November 2008
 SAMPLES FROM AD60010 TO AD60019

ALEXANDRA JEPSEN
 CHEMTEST
 DEPOT ROAD
 NEWMARKET
 SUFFOLK
 CB8 0AP
 Tel: 01638 606070
 Fax: 01638 606071

SAMPLED BY

Report reference 22169/08-1

Field Name Field Size Lab No.	Soil Type	Last Crop	Next Crop	Recommendations Units/acre			Additional Notes
				P ₂ O ₅	K ₂ O	MgO	
AD60010 094143							Phosphate and Potash deficiencies may limit crop performance. Apply fertiliser to seedbed to help establishment. Arable rotation assumed for lime recommendation. Needs Lime at 3 T/Ac.
AD60011 094144							Phosphate deficiency may limit crop performance. Apply fertiliser to seedbed to help establishment.
AD60012 094145							Phosphate deficiency may limit crop performance. Potassium status low - additional nutrient required. Apply fertiliser to seedbed to help establishment. Arable rotation assumed for lime recommendation. Needs Lime at 2.5 T/Ac.
AD60013 094146							Phosphate deficiency may limit crop performance. Apply fertiliser to seedbed to help establishment.
AD60014 094147							Phosphate deficiency may limit crop performance. Potassium status low - additional nutrient required. Apply fertiliser to seedbed to help establishment. Arable rotation assumed for lime recommendation. Needs Lime at 3 T/Ac.
AD60015 094148							Phosphate deficiency may limit crop performance. Apply fertiliser to seedbed to help establishment. Arable rotation assumed for lime recommendation. Needs Lime at 5 T/Ac. This heavy dressing of lime is best split in two, before and after ploughing.
AD60016 094149							Phosphate and Potash deficiencies may limit crop performance. Apply fertiliser to seedbed to help establishment.
AD60017 094150							Phosphate and Potash deficiencies may limit crop performance. Apply fertiliser to seedbed to help establishment. Arable rotation assumed for lime recommendation. Needs Lime at 1 T/Ac.
AD60018 094151							Phosphate deficiency may limit crop performance. Apply fertiliser to seedbed to help establishment.
AD60019 094152							Phosphate deficiency may limit crop performance. Potassium status low - additional nutrient required. Apply fertiliser to seedbed to help establishment. Arable rotation assumed for lime recommendation. Needs Lime at 1.5 T/Ac.

Fertiliser recommendations are based on DEFRA RB209 (Seventh Edition - 2000). If a nutrient is deficient and no recommendation is given, either no recommendation is given in RB209 or we have insufficient data to give a recommendation.

Contact : ALEXANDRA JEPSEN
 CHEMTEST
 DEPOT ROAD
 NEWMARKET
 SUFFOLK
 CB8 0AP
 Tel. : 01638 606070

F446

Please quote the above code for all enquiries

Client : AD60020 TO AD60026

Sample Matrix : Agricultural Soil

Laboratory Reference

Card Number 22170/08

Date Received 04-Nov-08

Date Reported 07-Nov-08

SOIL ANALYSIS REPORT

Laboratory Sample Reference	Field Details		Soil pH	Index			mg/l (Available)		
	No.	Name or O.S. Reference with Cropping Details		P	K	Mg	P	K	Mg
94153/08	1	AD60020 <i>No cropping details given</i>	7.8	0	2-	6	4.4	134	514
94154/08	2	AD60021 <i>No cropping details given</i>	7.7	0	1	6	4.0	93	518
94155/08	3	AD60022 <i>No cropping details given</i>	5.4	0	0	5	5.6	56	342
94156/08	4	AD60023 <i>No cropping details given</i>	7.4	0	2-	6	5.2	162	358
94157/08	5	AD60024 <i>No cropping details given</i>	6.9	0	0	4	4.0	30	244
94158/08	6	AD60026 <i>No cropping details given</i>	6.4	0	0	4	4.0	32	231

If general fertiliser and lime recommendations have been requested, these are given on the following sheets.

The analytical methods used are as described in DEFRA Reference Book 427

The index values are determined from the DEFRA Fertiliser Recommendations RB209 7th Edition (Appendix 4).

Released by On behalf of NRM Ltd Date 07/11/08



Contact : ALEXANDRA JEPSEN
 CHEMTEST
 DEPOT ROAD
 NEWMARKET
 SUFFOLK
 CB8 0AP
 Tel. : 01638 606070

F446

Please quote the above code for all enquiries

Client : AD60020 TO AD60026

Sample Matrix : Agricultural Soil

Laboratory Reference
 Card Number 22170/08

Date Received 04-Nov-08
 Date Reported 07-Nov-08

Samples will be stored until 04-DEC-2008

SOIL ANALYSIS REPORT

Laboratory Sample Reference	Field Details			Index			mg/l (Available)		
	No.	Name or D.S. Reference with Cropping Details	Soil pH	P	K	Mg	P	K	Mg
94159/08	7	AD60026 <i>No cropping details given</i>	7.4	1	0	3	13.0	7	103

If general fertilizer and lime recommendations have been requested, these are given on the following sheets.

The analytical methods used are as described in DEFRA Reference Book 427

The index values are determined from the DEFRA Fertiliser Recommendations RB209 7th Edition (Appendix 4).

Released by



On behalf of NRM Ltd

Date

07/11/08

MICRO NUTRIENT REPORT

DATE 7th November 2008
SAMPLES FROM AD60020 TO AD60026

ALEXANDRA JEPSEN
CHEMTEST
DEPOT ROAD
NEWMARKET
SUFFOLK
CB8 0AP
Tel: 01638 606070
Fax: 01638 606071

Reference: 22170/94153/08-1	Field Name: AD60020	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		3642
Reference: 22170/94154/08-1	Field Name: AD60021	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		3203
Reference: 22170/94155/08-1	Field Name: AD60022	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		3555
Reference: 22170/94156/08-1	Field Name: AD60023	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		3975
Reference: 22170/94157/08-1	Field Name: AD60024	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		2283
Reference: 22170/94158/08-1	Field Name: AD60025	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		2208
Reference: 22170/94159/08-1	Field Name: AD60026	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		2154

Structural Soils Limited
The Old School
Stillhouse Lane
Bedminster, Bristol
BS3 4EB

FAO John Wild
19 November 2008

Dear John Wild

Test Report Number 56225
Your Project Reference Sizewell C - 722201

Please find enclosed the results of analysis for the samples received 10 November 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely



Authorised Signatory

Darrell Hall Laboratory Manager
 Phil Hellier Operations Director
 Keith Jones Technical Development Manager
 John Crawford Quality Manager
 Malcolm Avis Technical Director

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked N do not currently hold accreditation*
- *Test marked S were subcontracted to an approved laboratory*
- *ne means 'not evaluated'*
- *is means 'insufficient sample'*
- *us means 'unsuitable sample'*
- *The results relate only to the items tested*

Test Report 56225 Cover Sheet

Structural Soils Limited
The Old School
Stillhouse Lane
Bedminster, Bristol
BS3 4EB

LABORATORY TEST REPORT

 Chemtest

Report Date
19 November 2008

Results of analysis of 1 sample
received 10 November 2008

Sizewell C - 722201

FAO John Wild

Login Batch No

56225



AD62124

Sample ID

BH24

Sample No

94261

Depth

8

Matrix

SOIL

SOP↓	Determinand↓	CAS No↓	Units↓	*
	Miscellaneous subcontracted analysis			See attached

All tests undertaken between 19-Nov-2008 and 19-Nov-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 1

Report page 1 of 1

Report sample ID range AD62124 to AD62124

Contact : ALEXANDRA JEPSEN
 CHEMTEST
 DEPOT ROAD
 NEWMARKET
 SUFFOLK
 CB8 0AP
 Tel. : 01638 606070

F446

Please quote the above code for all enquiries

Client : JOB 56225
 ON 9536
 JASON KEELEY

Sample Matrix : Agricultural Soil

Laboratory Reference
 Card Number 22597/08

Date Received 11-Nov-08
 Date Reported 17-Nov-08

Samples will be stored until 11-DEC-2008

SOIL ANALYSIS REPORT

Laboratory Sample Reference	Field Details		Soil pH	Index			mg/l (Available)		
	No.	Name or O.S. Reference with Cropping Details		P	K	Mg	P	K	Mg
96165/08	1	AD62124 <i>No cropping details given</i>	6.1	0	0	7	2.4	42	699

If general fertiliser and lime recommendations have been requested, these are given on the following sheets.

The analytical methods used are as described in DEFRA Reference Book 427

The index values are determined from the DEFRA Fertiliser Recommendations RB209 7th Edition (Appendix 4).

Released by [REDACTED] On behalf of NRM Ltd Date 17/11/08



MICRO NUTRIENT REPORT

DATE 17th November 2008
SAMPLES FROM JOB 56225, ON 9536, JASON KEELEY

ALEXANDRA JEPSEN
CHEMTEST
DEPOT ROAD
NEWMARKET
SUFFOLK
CB8 0AP
Tel: 01638 606070
Fax: 01638 606071

Reference: 22597/96165/08-1	Field Name: AD62124	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		2302

Structural Soils Limited
The Old School
Stillhouse Lane
Bedminster, Bristol
BS3 4EB

FAO John Wild
24 November 2008

Dear John Wild

Test Report Number **56246**
Your Project Reference **Sizewell C - 722201**

Please find enclosed the results of analysis for the samples received 12 November 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely



Authorised Signatory

Darrell Hall Laboratory Manager
 Phil Hellier Operations Director
 Keith Jones Technical Development Manager
 John Crawford Quality Manager
 Malcolm Avis Technical Director

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked N do not currently hold accreditation*
- *Test marked S were subcontracted to an approved laboratory*
- *ne means 'not evaluated'*
- *is means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *The results relate only to the items tested*

Structural Soils Limited
The Old School
Stillhouse Lane
Bedminster, Bristol
BS3 4EB

LABORATORY TEST REPORT

 Chemtest

Report Date
24 November 2008

Results of analysis of 1 sample
received 12 November 2008

Sizewell C - 722201

FAO John Wild

Login Batch No




56246

Sample ID

Sample No

Depth

Matrix



BH16

93875

9.6m

SOIL

SOP↓

Determinand↓

CAS No↓

Units↓

Miscellaneous subcontracted analysis

See attached

All tests undertaken between 24-Nov-2008 and 24-Nov-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 1

Report page 1 of 1

Report sample ID range AD62956 to AD62956

Contact : ALEXANDRA JEPSEN
 CHEMTEST
 DEPOT ROAD
 NEWMARKET
 SUFFOLK
 CB8 0AP
 Tel. : 01638 606070

F446

Client : ON 9555
 JOB 56246

Please quote the above code for all enquiries

Sample Matrix : Agricultural Soil

Laboratory Reference
 Card Number 22695/08

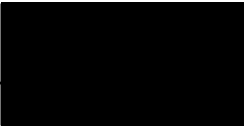
Date Received 14-Nov-08
 Date Reported 24-Nov-08

Samples will be stored until 14-DEC-2008

SOIL ANALYSIS REPORT

Laboratory Sample Reference	Field Details			Index			mg/l (Available)		
	No.	Name or O.S. Reference with Cropping Details	Soil pH	P	K	Mg	P	K	Mg
96658/08	1	AD62956 <i>No cropping details given</i>	6.3	0	2+	6	6.8	194	570

*If general fertiliser and lime recommendations have been requested, these are given on the following sheets.
 The analytical methods used are as described in DEFRA Reference Book 427
 The index values are determined from the DEFRA Fertiliser Recommendations RB209 7th Edition (Appendix 4).*

Released by  On behalf of NRM Ltd Date 24/11/08



MICRO NUTRIENT REPORT

DATE 24th November 2008
SAMPLES FROM ON 9555, JOB 56246

ALEXANDRA JEPSEN
CHEMTEST
DEPOT ROAD
NEWMARKET
SUFFOLK
CB8 0AP
Tel: 01638 606070
Fax: 01638 606071

Reference: 22695/96658/08-1	Field Name: AD62956	Result
Electrical Conductivity (Sat. CaSO ₄) uS/cm		6256

DATE 24th November 2008
 SAMPLES FROM ON 9555, JOB 56246

ALEXANDRA JEPSEN
 CHEMTEST
 DEPOT ROAD
 NEWMARKET
 SUFFOLK
 CB8 0AP
 Tel: 01638 606070
 Fax: 01638 606071

SAMPLED BY

Report reference 22695/08-1

Field Name		Last Crop	Next Crop	Recommendations Units/acre			Additional Notes
Field Size Lab No.	Soil Type			P ₂ O ₅	K ₂ O	MgO	
AD62956						Phosphate deficiency may limit crop performance. Apply fertiliser to seedbed to help establishment. Arable rotation assumed for lime recommendation. Needs lime at 1 T/ac.	
096658							

Fertiliser recommendations are based on DEFRA RB209 (Seventh Edition - 2000). If a nutrient is deficient and no recommendation is given, either no recommendation is given in RB209 or we have insufficient data to give a recommendation.

Structural Soils Limited
The Old School
Stillhouse Lane
Bedminster, Bristol
BS3 4EB

FAO John Wild
19 November 2008

Dear John Wild

Test Report Number 56226
Your Project Reference Sizewell C - 722201

Please find enclosed the results of analysis for the samples received 10 November 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely



Authorised Signatory

Darrell Hall Laboratory Manager
 Phil Hellier Operations Director
 Keith Jones Technical Development Manager
 John Crawford Quality Manager
 Malcolm Avis Technical Director

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked N do not currently hold accreditation*
- *Test marked S were subcontracted to an approved laboratory*
- *ne means 'not evaluated'*
- *is means 'insufficient sample'*
- *us means 'unsuitable sample'*
- *The results relate only to the items tested*

Test Report 56226 Cover Sheet

Structural Soils Limited
 The Old School
 Stillhouse Lane
 Bedminster, Bristol
 BS3 4EB

LABORATORY TEST REPORT



Report Date
 19 November 2008

Results of analysis of 6 samples
 received 10 November 2008

FAO John Wild

Sizewell C - 722201

Login Batch No

Chemtest - IMSIC

56226

Sample ID	AD62125	AD62125	AD62127	AD62128	AD62129	AD62130
Sample No	BH9	BH9	BH14	BH21	BH21	BH22
Depth	95282	95283	95285	95287	95288	95289
Matrix	6.5	8.5	8.5	8.5	10	5.5
SOP↓	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Determinand↓						
Miscellaneous subcontracted analysis	See attached	See attached	See attached	See attached	See attached	See attached

All tests undertaken between 19-Nov-2008 and 19-Nov-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 1

Report page 1 of 1

Report sample ID range AD62125 to AD62130

Contact : ALEXANDRA JEPSEN
 CHEMTEST
 DEPOT ROAD
 NEWMARKET
 SUFFOLK
 CB8 0AP
 Tel. : 01638 606070

F446

Client : JOB 56226
 ON 9537
 JASON KEELEY

Please quote the above code for all enquiries

Sample Matrix : Agricultural Soil

Laboratory Reference
 Card Number 22596/08

Date Received 11-Nov-08
 Date Reported 17-Nov-08

Samples will be stored until 11-DEC-2008

SOIL ANALYSIS REPORT

Laboratory Sample Reference	Field Details			Index			mg/l (Available)		
	No.	Name or O.S. Reference with Cropping Details	Soil pH	P	K	Mg	P	K	Mg
96159/08	1	AD62125 <i>No cropping details given</i>	6.9	0	2+	7	4.8	219	779
96160/08	2	AD62126 <i>No cropping details given</i>	6.4	0	1	6	3.2	114	476
96161/08	3	AD62127 <i>No cropping details given</i>	6.3	0	0	4	2.4	28	191
96162/08	4	AD62128 <i>No cropping details given</i>	6.9	0	2-	6	4.2	159	447
96163/08	5	AD62129 <i>No cropping details given</i>	5.0	0	0	4	3.2	58	177
96164/08	6	AD62130 <i>No cropping details given</i>	7.0	0	3	7	4.2	288	772

If general fertiliser and lime recommendations have been requested, these are given on the following sheets.
 The analytical methods used are as described in DEFRA Reference Book 427
 The index values are determined from the DEFRA Fertiliser Recommendations RB209 7th Edition (Appendix 4).

Released by On behalf of NRM Ltd Date 17/11/08



MICRO NUTRIENT REPORT

DATE 17th November 2008
SAMPLES FROM JOB 56226, ON 9537, JASON KEELEY

ALEXANDRA JEPSEN
CHEMTEST
DEPOT ROAD
NEWMARKET
SUFFOLK
CB8 0AP
Tel: 01638 606070
Fax: 01638 606071

Reference: 22596/96159/08-1	Field Name: AD62125	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		4579

Reference: 22596/96160/08-1	Field Name: AD62126	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		4441

Reference: 22596/96161/08-1	Field Name: AD62127	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		2286

Reference: 22596/96162/08-1	Field Name: AD62128	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		3897

Reference: 22596/96163/08-1	Field Name: AD62129	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		3341

Reference: 22596/96164/08-1	Field Name: AD62130	Result
Electrical Conductivity (Sat. CaSO4) uS/cm		4979

Structural Soils Limited
The Old School
Stillhouse Lane
Bedminster, Bristol
BS3 4EB

FAO John Wild
18 November 2008

Dear John Wild

Test Report Number **56237**
Your Project Reference **Sizewell C - 722201**

Please find enclosed the results of analysis for the samples received 11 November 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely



Authorised Signatory

Darrell Hill Laboratory Manager
 Phil Hellier Operations Director
 Keith Jones Technical Development Manager
 John Crawford Quality Manager
 Malcolm Avis Technical Director



2183

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked 'U' hold UKAS accreditation*
- *Tests marked 'M' hold MCertS (and UKAS) accreditation*
- *Tests marked 'N' do not currently hold UKAS accreditation*
- *Tests marked 'S' were subcontracted to an approved laboratory*
- *n/e means 'not evaluated'*
- *is means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *Comments or Interpretations are beyond the scope of UKAS accreditation*
- *The results relate only to the items tested*

Test Report 56237 Cover Sheet

LABORATORY TEST REPORT

Results of analysis of 6 samples
 received 11 November 2008

FAO John Wild

Sizewell C - 72201

Login Batch No

Chemtest JMS/D

56237

				AD62445	AD62446	AD62447	AD62448	AD62449	AD62450	
				BH9	BH9	BH14	BH21	BH21	BH22	
				95282	95283	95285	95287	95288	95289	
				6.5	8.5	8.5	8.5	10	5.5	
Matrix				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
SOP ↓	Determinand ↓	CAS No ↓	Units ↓							
2220	Chloride (extractable)	16887006	g l ⁻¹	M	2.9	0.94	0.063	1.9	2.1	0.69
2410	Sodium (extractable)	7440235	mg kg ⁻¹	N	1400	1500	1200	920	730	650
2430	Sulfate (total)	14808798	mg kg ⁻¹	M	4900	7200	3900	4400	13000	4200
	Calcium (extractable)	7440702	mg kg ⁻¹	N	4600	2500	5400	1900	2000	1200
	Iron	7439896	mg kg ⁻¹	N	13000	21000	10000	11000	30000	13000
	Magnesium (total)	7439954	mg kg ⁻¹	N	4500	1300	325	2300	<2500	4000
	Sulfur (total TRL report 447)		%	N	1.3	1.2	0.99	0.75	2.3	0.59
2010	pH		-	M	7.4	6.9	6.9	6.7	5.8	7.5
2610	Loss on ignition		%	N	42.1	89	73.8	64.9	56.3	47

Structural Soils Limited
The Old School
Stillhouse Lane
Bedminster, Bristol
BS3 4EB

FAO John Wild
07 November 2008

Dear John Wild

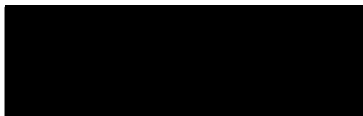
Test Report Number **74725**
Your Project Reference **Sizewell SI**

Please find enclosed the results of analysis for the samples received 31 October 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely



Authorised Signatory

Darrell Hall Laboratory Manager
 Phil Hellier Operations Director
 Keith Jones Technical Development Manager
 John Crawford Quality Manager
 Malcolm Avis Technical Director



Notes to accompany report:

- The sign < means 'less than'
- Tests marked 'U' hold UKAS accreditation
- Tests marked 'M' hold MCertS (and UKAS) accreditation
- Tests marked 'N' do not currently hold UKAS accreditation
- Tests marked 'S' were subcontracted to an approved laboratory
- n/e means 'not evaluated'
- i/s means 'insufficient sample'
- u/s means 'unsuitable sample'
- Comments or interpretations are beyond the scope of UKAS accreditation
- The results relate only to the items tested

Test Report 74725 Cover Sheet

Structural Soils Limited
The Old School
Stillhouse Lane
Bedminster, Bristol
BS3 4EB

FAO John Wild
13 November 2008

Dear John Wild

Test Report Number 92698a Amended Test Report
Your Project Reference Sizewell C - 722201

Please find enclosed the results of analysis for the samples received 7 November 2008.

Please find Pyritic iron results included. Disregard all previous reports.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely



Authorised Signatory

<input type="checkbox"/> Darrell Hall	Laboratory Manager
<input type="checkbox"/> Phil Hellier	Operations Director
<input checked="" type="checkbox"/> Keith Jones	Technical Development Manager
<input type="checkbox"/> John Crawford	Quality Manager
<input type="checkbox"/> Malcolm Avis	Technical Director

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked N do not currently hold accreditation*
- *Test marked S were subcontracted to an approved laboratory*
- *ne means 'not evaluated'*
- *l/s means 'insufficient sample'*
- *u/s means 'unsuitable sample'*
- *The results relate only to the items tested*

Structural Soils Limited
 The Old School
 Stillhouse Lane
 Bedminster, Bristol
 BS3 4EB

AMENDED LABORATORY TEST REPORT



Report Date
 13 November 2008

Results of analysis of 13 samples
 received 07 November 2008

FAO John Wild

Sizewell C - 722201

Login Batch No

Chemical IMS ID

Sample ID

Sample No

Depth

Matrix

SOP ↓ Determinand ↓

2430 Iron

Iron Pyritic

CAS No ↓

7439896

7439896

Units ↓

mg kg⁻¹

mg kg⁻¹

N

N

92698

AD61737	AD61738	AD61739	AD61740	AD61741	AD61742	AD61743	AD61744
BH1	BH3	BH5	BH8	BH8	BH10	BH12	BH13
6.5	6.9	8	5.4	5.8	7	7	9.5
SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
17000	3900	25000	15000	16000	22000	20000	22000
5000	1500	7000	2000	9300	7000	8000	10000

All tests undertaken between 10-Nov-2008 and 13-Nov-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 1

Report page 1 of 1

Report sample ID range AD61737 to AD61749

Structural Soils Limited
 The Old School
 Stillhouse Lane
 Bedminster, Bristol
 BS3 4EB

AMENDED LABORATORY TEST REPORT



Report Date
 13 November 2008

Results of analysis of 13 samples
 received 07 November 2008

FAO John Wild

Sizewell C - 722201

Login Batch No

Chemtest LIMS ID

Sample ID

Sample No

Depth

Matrix

SOP ↓ Determinand ↓

2430 Iron

Iron Pyritic

CAS No ↓

7439896

7439896

Units ↓

mg kg⁻¹

mg kg⁻¹

N

N

		92698				
		AD61745	AD61746	AD61747	AD61748	AD61749
		BH16	BH17	BH19	BH20	BH25
Depth		7.2	10.5	8.9	10	8
Matrix		SOIL	SOIL	SOIL	SOIL	SOIL
SOP ↓	Determinand ↓					
2430	Iron	13000	24000	9200	25000	11000
	Iron Pyritic	6100	6000	1800	7000	4000

All tests undertaken between 10-Nov-2008 and 13-Nov-2008

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 2

Report page 1 of 1

Report sample ID range AD61737 to AD61749

Structural Soils Limited
The Old School
Stillhouse Lane
Bedminster, Bristol
BS3 4EBFAO John Wild
08 January 2009

Dear John Wild

Test Report Number 92698a Amended Test Report
Your Project Reference Sizewell C - 722201

Please find enclosed the results of analysis for the samples received 7 November 2008.

Please find results for additional testing as requested. Disregard all previous reports.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely



Authorised Signatory

<input type="checkbox"/> Darrell Hall	Laboratory Manager
<input type="checkbox"/> Phil Hellier	Operations Director
<input checked="" type="checkbox"/> Keith Jones	Technical Development Manager
<input type="checkbox"/> John Crawford	Quality Manager
<input type="checkbox"/> Malcolm Avis	Technical Director

**Notes to accompany report:**

- The sign < means 'less than'
- Tests marked 'U' hold UKAS accreditation
- Tests marked 'M' hold MCertS (and UKAS) accreditation
- Tests marked 'N' do not currently hold UKAS accreditation
- Tests marked 'S' were subcontracted to an approved laboratory
- n/e means 'not evaluated'
- i/s means 'insufficient sample'
- u/s means 'unsuitable sample'
- Comments or interpretations are beyond the scope of UKAS accreditation
- The results relate only to the items tested

Test Report 92698 Cover Sheet

Structural Soils Limited
 The Old School
 Stillhouse Lane
 Bedminster, Bristol
 BS3 4EB

AMENDED LABORATORY TEST REPORT



Report Date
 08 January 2009

FAO John Wild

Results of analysis of 13 samples
 received 07 November 2008

Sizewell C - 722201

Login Batch No

Chemtest HMS ID

Sample ID

Sample No

Depth

Matrix

SOP ↓

Determinand ↓

CAS No ↓

Units ↓

*

2020 Electrical Conductivity (2:1)

EC

µS cm⁻¹

U

2220 Chloride (extractable)

16887006

g l⁻¹

M

2410 Sodium (extractable)

7440235

mg kg⁻¹

N

2430 Iron

7439896

mg kg⁻¹

N

Iron Pyritic

7439896

mg kg⁻¹

N

2010 pH

M

2610 Loss on ignition

%

N

92698

AD61737	AD61738	AD61739	AD61740	AD61741	AD61742	AD61743	AD61744
BH1	BH3	BH5	BH6	BH8	BH10	BH12	BH13
6.5	6.9	8	5.4	5.8	7	7	9.5
SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				7500			
				2.5			
				1900			
17000	3900	25000	15000	16800	22000	20000	22000
5000	1500	7000	2000	9300	7000	8000	10000
				6.8			
				54.4			

All tests undertaken between 10-Nov-2008 and 6-Jan-2009

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 1

Report page 1 of 1

Report sample ID range AD61737 to AD61749

Structural Soils Limited
 The Old School
 Stillhouse Lane
 Bedminster, Bristol
 BS3 4EB

AMENDED LABORATORY TEST REPORT



Report Date
 08 January 2009

Results of analysis of 13 samples
 received 07 November 2008

FAO John Wild

Sizewell C - 722201

Login Batch No

Chemtest LIMS ID

				92698				
				AD61745	AD61746	AD61747	AD61748	AD61749
				BH16	BH17	BH19	BH20	BH25
				7.2	10.5	8.9	10	8
				SOIL	SOIL	SOIL	SOIL	SOIL
SOP↓	Determinand↓	CAS No↓	Units↓					
2020	Electrical Conductivity (2:1)	EC	µS cm ⁻¹	U	9800	5700		2600
2220	Chloride (extractable)	16887006	g l ⁻¹	M	7.5	2.8		0.11
2410	Sodium (extractable)	7440235	mg kg ⁻¹	N	2800	520		83
2430	Iron	7439896	mg kg ⁻¹	N	13000	24000	9200	11000
	Iron Pyritic	7439896	mg kg ⁻¹	N	6100	6000	1800	4000
2010	pH			M	6.9	4.3	7000	5.5
2810	Loss on ignition		%	N	58.8	54.3		74.8

All tests undertaken between 10-Nov-2008 and 6-Jan-2009

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 2

Report page 1 of 1

Report sample ID range AD61737 to AD61749

Structural Soils Limited
The Old School
Stillhouse Lane
Bedminster, Bristol
BS3 4EBFAO John Wild
24 November 2008

Dear John Wild

Test Report Number 92716a Amended Test Report
Your Project Reference Sizewell C - 722201

Please find enclosed the results of analysis for the samples received 10 November 2008.

Please find results for pyritic iron included. Disregard all previous reports.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely



Authorised Signatory

 Darrell Hall Laboratory Manager
 Phil Hellier Operations Director
 Keith Jones Technical Development Manager
 John Crawford Quality Manager
 Malcolm Avis Technical Director*Notes to accompany report:*

- *The sign < means 'less than'*
- *Tests marked N do not currently hold accreditation*
- *Test marked S were subcontracted to an approved laboratory*
- *ne means 'not evaluated'*
- *I/s means 'insufficient sample'*
- *U/s means 'unsuitable sample'*
- *The results relate only to the items tested*

Structural Soils Limited
 The Old School
 Stillhouse Lane
 Bedminster, Bristol
 BS3 4EB

AMENDED LABORATORY TEST REPORT



Report Date
 24 November 2008

FAO John Wild

Results of analysis of 4 samples
 received 10 November 2008

Sizewell C - 722201

Login Batch No

Chemtest LIMS ID

		92716			
		AD62132	AD62133	AD62134	AD62135
Sample ID		BH0	BH14	BH21	BH22
Sample No		95281	95284	95286	95290
Depth		5	8	5	10
Matrix		SOIL	SOIL	SOIL	SOIL
SOP↓	Determinand↓	CAS No↓	Units↓	w	
2430	Iron	7439896	mg kg ⁻¹	N	20000
	Iron Pyritic	7439896	mg kg ⁻¹	N	10000
					12000
					11000
					25000
					15000

All tests undertaken between 10-Nov-2008 and 24-Nov-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 1

Report page 1 of 1

Report sample ID range AD62132 to AD62135

Structural Soils Limited
The Old School
Stillhouse Lane
Bedminster, Bristol
BS3 4EB

FAO John Wild
04 December 2008

Dear John Wild

Test Report Number 92941
Your Project Reference Sizewell C - 722201

Please find enclosed the results of analysis for the samples received 28 November 2008.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely



Authorised Signatory

<input type="checkbox"/> Darrell Hall	Laboratory Manager
<input type="checkbox"/> Phil Hallier	Operations Director
<input checked="" type="checkbox"/> Keith Jones	Technical Development Manager
<input type="checkbox"/> John Crawford	Quality Manager
<input type="checkbox"/> Malcolm Avis	Technical Director

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked N do not currently hold accreditation*
- *Test marked S were subcontracted to an approved laboratory*
- *ne means 'not evaluated'*
- *is means 'insufficient sample'*
- *us means 'unsuitable sample'*
- *The results relate only to the items tested*

Test Report 92941 Cover Sheet

Structural Soils Limited
The Old School
Stillhouse Lane
Bedminster, Bristol
BS3 4EB

LABORATORY TEST REPORT

 Chemtest

Report Date
04 December 2008

Results of analysis of 1 sample
received 28 November 2008

FAO John Wild

Sizewell C - 722201

Login Batch No

92941

Chemtest LIMS ID

AD67278

Sample ID

BH24

Sample No

Depth

7m

Matrix

SOIL

SOP↓	Determinand↓	CAS No↓	Units↓	*	
2430	Iron	7439896	mg kg ⁻¹	N	15000
	Iron Pyritic	7439896	mg kg ⁻¹	N	9200

All tests undertaken between 28-Nov-2008 and 4-Dec-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 1

Report page 1 of 1

Report sample ID range AD67278 to AD67278

Structural Soils Limited
The Old School
Stillhouse Lane
Bedminster, Bristol
BS3 4EB

FAO John Wild
24 February 2009

Dear John Wild

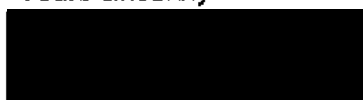
Test Report Number 93507
Your Project Reference Sizewell C - 722201

Please find enclosed the results of analysis for the samples received 16 February 2009.

All soil samples will be retained for a period of one month and all water samples will be retained for 7 days following the date of the test report. Should you require an extended retention period then please detail your requirements in an email to customerservices@chemtest.co.uk. Please be aware that charges may be applicable for extended sample storage.

If you require any further assistance, please do not hesitate to contact the Customer Services team.

Yours sincerely



Authorised Signatory

<input type="checkbox"/> Darrell Hall	Laboratory Manager
<input type="checkbox"/> Phil Hollier	Operations Director
<input checked="" type="checkbox"/> Keith Jones	Technical Development Manager
<input type="checkbox"/> John Crawford	Quality Manager
<input type="checkbox"/> Malcolm Avis	Technical Director

Notes to accompany report:

- *The sign < means 'less than'*
- *Tests marked N do not currently hold accreditation*
- *Test marked S were subcontracted to an approved laboratory*
- *ne means 'not evaluated'*
- *is means 'insufficient sample'*
- *us means 'unsuitable sample'*
- *The results relate only to the items tested*

Test Report 93507 Cover Sheet

Structural Soils Limited
 The Old School
 Stillhouse Lane
 Bedminster, Bristol
 BS3 4EB

LABORATORY TEST REPORT



Report Date
 24 February 2009

Results of analysis of 12 samples
 received 16 February 2009

FAO John Wild

Sizewell C - 722201

Login Batch No

Chemtest HMS ID

Sample ID

Sample No

Depth

Matrix

SOP ↓ Determinand ↓

2420 Electrical Conductivity (topsoil)

CAS No ↓

7439954

Units ↓

μS cm⁻¹

93507								
AD81392	AD81393	AD81394	AD81395	AD81396	AD81397	AD81398	AD81399	AD81400
BH1	BH3	BH5	BH9	10A	12	13A	14	
8.5m	8.9m	8m	5m	7m	7m	8.5m	8m	
SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
10100	2800	18000	8000	2600	10500	8090	2600	

All tests undertaken between 17-Feb-2008 and 17-Feb-2009

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 1

Report page 1 of 1

Report sample ID range AD81392 to AD81403

Structural Soils Limited
 The Old School
 Stillhouse Lane
 Bedminster, Bristol
 BS3 4EB

LABORATORY TEST REPORT



Report Date
 24 February 2009

Results of analysis of 12 samples
 received 18 February 2009

FAO John Wild

Sizewell C - 722201

Login Batch No

93507

Client HMS ID

AD81400 AD81401 AD81402 AD81403

Sample ID

19A 20 21 22

Sample No

Depth

8.9m 10m 5m 10m

Matrix

SOIL SOIL SOIL SOIL

SOP ↓ Determinand ↓

CAS No ↓

Units ↓

2420 Electrical Conductivity (topsoil)

7439954

μS cm⁻¹

6800 7040 8300 5000

All tests undertaken between 17-Feb-2008 and 17-Feb-2009

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 2

Report page 1 of 1

Report sample ID range AD81382 to AD81403

Structural Soils Limited
 The Old School
 Stillhouse Lane
 Bedminster, Bristol
 BS3 4EB

LABORATORY TEST REPORT



Report Date
 10 November 2008

Results of analysis of 27 samples
 received 31 October 2008

FAO John Wild

Sizewell Si

Login Batch No

Chemtest UM/S/10

74725

Sample ID	Sample No	Depth	Matrix	SOP↓	Determinand↓	CAS No↓	Units↓	*	AD59915	AD59916	AD59917	AD59918	AD59919	AD59920	AD59921	AD59922
									94876	94878	94879	94262	93846	93847	93849	93765
									BH12	BH12	BH13A	BH24	BH19A	BH19A	BH19A	BH20
									5.3	11	8	8	5.5	7.5	9.4	8.5
									SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
									4.1	1.7	2.8	0.079	3.4	2.8	2.8	2.7
									3300	3700	680	1100	980	620	2500	680
									7.8	15	16	3.8	3.9	6.2	16	7.5
									5500	8700	6400	9200	4700	11000	8500	13000
									11000	21000	17000	6700	3300	6900	19000	13000
									15000	5000	6000	4300	3800	2500	16000	9800
									4.3	9.1	3.6	2.6	2.1	4.5	12	4.2
									7.2	5.8	6.2	6.4	6.9	6.6	5.2	6.2
									66.4	85.3	40.5	71.8	69.1	63.7	46.5	45.7

All tests undertaken between 04-Nov-2008 and 7-Nov-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 1

Report page 1 of 1

Report sample ID range AD59915 to AD59941

Structural Soils Limited
 The Old School
 Stillhouse Lane
 Bedminster, Bristol
 BS3 4EB

LABORATORY TEST REPORT



Report Date
 10 November 2008

Results of analysis of 27 samples
 received 31 October 2008

FAO John Wild

Sizewell SI

Login Batch No

Chemtest IMS ID

				74725							
				AD59923	AD59924	AD59925	AD59926	AD59927	AD59928	AD59929	AD59930
Sample ID				93868	93871	93872	93874	93875	93877	93878	93879
Sample No				BH10A	BH03	BH03	BH16	BH16	BH8	BH8	BH6
Depth				5.5	7.8	8.3	8	9.5	6.2	9.5	4.8
Matrix				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
SOP ↓	Determinand ↓	CAS No ↓	Units ↓								
2220	Chloride (extractable)	16887006	g l ⁻¹	M	0.2	0.68	1.1	2.9	1.5	2.9	0.21
2410	Sodium (extractable)	7440235	mg kg ⁻¹	N	530	5800	700	3500	2100	490	480
2430	Sulfate (total)	14808798	%	U	4.6	3.6	10	7.1	14	10	5.6
	Calcium (extractable)	7440702	mg kg ⁻¹	N	4900	1300	16000	12000	18000	8200	5000
	Iron	7439896	mg kg ⁻¹	N	4900	1300	16000	12000	18000	8200	5000
	Magnesium (total)	7439954	mg kg ⁻¹	N	11000	33000	12000	6500	7300	5300	9000
	Sulfur (total TRL report 447)		%	N	3.7	7.0	2.2	4.7	3.9	0.55	5.6
2010	pH		-	M	8.0	6.2	5.6	6.6	6.1	7.1	5.6
2610	Loss on ignition		%	N	64	64.8	64.6	35.7	62.4	26	63.6

All tests undertaken between 04-Nov-2008 and 7-Nov-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 2

Report page 1 of 1

Report sample ID range AD59915 to AD59941

Structural Soils Limited
 The Old School
 Stillhouse Lane
 Bedminster, Bristol
 BS3 4EB

LABORATORY TEST REPORT



Report Date
 10 November 2008

Results of analysis of 27 samples
 received 31 October 2008

FAO John Wild

Sizewell SI

Login Batch No

Chemtest LIMS ID

		74725					
		AD59939	AD59940	AD59941			
Sample ID		93494	93495	93497			
Sample No		BH25	BH25	BH25			
Depth		7	7.5	8.15			
Matrix		SOIL	SOIL	SOIL			
SOP ↓	Determinand ↓	CAS No ↓	Units ↓	*			
2220	Chloride (extractable)	16887006	g l ⁻¹	M	0.062	0.091	0.03
2410	Sodium (extractable)	7440235	mg kg ⁻¹	N	300	1800	7000
2430	Sulfate (total)	14808798	%	U	4.8	3.0	3.2
	Calcium (extractable)	7440702	mg kg ⁻¹	N	5200	4900	24000
	Iron	7439896	mg kg ⁻¹	N	5300	4900	20000
	Magnesium (total)	7439954	mg kg ⁻¹	N	2800	1700	14000
	Sulfur (total TRL report 447)		%	N	1.7	2.7	2.5
2010	pH			M	6.9	6.3	6.9
2610	Loss on ignition		%	N	57.1	52.5	32.8

All tests undertaken between 04-Nov-2008 and 7-Nov-2008

* Accreditation status

This report should be interpreted in conjunction with the notes on the accompanying cover page

Column page 4

Report page 1 of 1

Report sample ID range AD59915 to AD59941

APPENDIX E

(i) Monitoring Results

GAS MONITORING RESULTS

Contract No: 722201
 Contract Name: SIZEWELL C

Contract Engineer: JOHN WILD
 Date: 13/10/2008

STRUCTURAL SOILS LTD



Weather Conditions: BRIGHT,CLOUDY Atmospheric Wind Conditions: Light ALM Pressure: Rising/Constant/Falling				Equipment used: LMSxl				Data Collected By: IAN WARNE				Input Checked by (sign):				
Ground Conditions (eg dry, flooded, frost, snow etc):																
Location	Flow (l/hr) (peak and residual) [] = time period	Atmospheric Pressure (mb)	BH Pressure (mb)	Time		% by volume in air			LEL (%)	(ppm)			Depth range to water (m bgl) (for a period of time (specify) following tap removal)	Well depth (mbgl) Current and (as installed)	Top of Response zone (m bgl)	Notes (eg, samples taken, dual installation, odours, sheens, broken headworks).
				hours	mins	Methane	Carbon Dioxide	Oxygen		H2S	CO	PID				
BH6	2.4 (Approx 3 secs) 0.1	1014	1022		0	<0.1	<0.1	20.8						0.25		Water came up tube.
		1014	1014	15		77.0	2.0	1.4								
				30		76.0	2.0	1.4								
				60		72.0	1.9	2.1								
				90		68.0	1.8	2.8								
				120		65.0	1.7	3.8								
				165		62.0	1.7	3.8								
				240		-	-	-								

GAS MONITORING RESULTS

Contract No: 722201
 Contract Name: SIZEWELL C

Contract Engineer: JOHN WILD
 Date: 14/10/2008

STRUCTURAL SOILS LTD



Weather Conditions: BRIGHT,CLOUDY Atmospheric Wind Conditions: Light ALM Pressure: Rising/Constant/Falling		Equipment Used: LMSxl		Data Collected By: IAN WARNE			Input Checked by (sign):													
Ground Conditions (eg dry, flooded, frost, snow etc):																				
Location	Flow (l/hr) (peak and residual) [] = time period	Atmospheric Pressure (mb)	BH Pressure (mb)	Time		% by volume in air			LEL (%)	ppm			Depth range to water (m bgl) (for a period of time (specify) following tap removal)	Well depth (mbgl) Current and (as installed)	Top of Response zone (m bgl)	Notes (eg. samples taken, dual installation, odours, steers, broken headworks).				
				hours	mins	Methane	Carbon Dioxide	Oxygen		H2S	CO	PID								
BHS	2.8 (9 secs)	1019	1027	0		<0.1	<0.1	20.8					0.74	6.15		Water came up tube.				
				(Initial)																
	0.1	1019	1019	15		42.5	1.2	9.3												
				30		42.0	1.2	9.2												
				60		41.0	1.2	9.5												
				90		39.0	1.1	9.8												
				120		35.5	0.8	11.0												
				145		35.0	0.8	11.1												
			240		-	-	-													
				0																
				(Initial)																
				15																
				30																
				60																
				90																
				120																
				145																
				240																
				0																
				(Initial)																
				15																
				30																
				60																
				90																
				120																
				180																
				240																
				300																
				360																

GAS MONITORING RESULTS

Contract No: 722201
 Contract Name: SIZEWELL C

Contract Engineer: JOHN WILD
 Date: 16/10/2008

STRUCTURAL SOILS LTD



Weather Conditions: BRIGHT,CLOUDY Atmospheric Wind Conditions: Light ALM Pressure: Rising/Constant/Falling				Equipment used: LMSxi				Data Collected By: IAN WARNE				Input Checked by (sign):				
Ground Conditions (eg dry, flooded, frost, snow etc):												Depth range to water (m bgl) (for a period of time (specify) following tap removal)	Well depth (mbgl) Current and (as installed)	Top of Response zone (m bgl)	Notes (eg, samples taken, dual installation, odours, sheens, broken headworks).	
Location	Flow (litre) (peak and residual) [] = time period	Atmospheric Pressure (mb)	BH Pressure (mb)	Time		% by volume in air			LEL (%)	(ppm)						
				hours	mins	Methane	Carbon Dioxide	Oxygen		H2S	CO					PID
BH5	3.4 (5 secs)	1009	1020		0 (initial)	<0.1	<0.1	20.8				0.72	8.05	Water came up tube.		
	0.1	1009	1009	15	44.5	1.2	8.6									
				30	44.5	1.2	8.3									
				45	43.0	1.1	8.9									
				60	42.0	1.1	8.9									
				75	39.5	1.0	8.6									
				90	36.0	0.8	10.7									
				105	-	-	-									
BH19	-0.3 (1 sec)	1009	1008		0 (initial)	<0.1	<0.1	20.8				0.62	8.38			
	0.1	1009	1008	15	7.6	0.8	19.4									
				30	8.7	0.8	18.0									
				45	8.2	0.7	19.1									
				60	8.0	0.7	19.1									
				75	9.1	0.9	18.9									
				90	10.5	1.0	18.4									
				105	8.2	0.7	18.0									
				120	7.4	0.5	19.2									
				135	7.4	0.5	19.3									

GAS MONITORING RESULTS

Contract No: 722201
 Contract Name: SIZEWELL C

Contract Engineer: JOHN WILD
 Date: 16/10/2008

STRUCTURAL SOILS LTD



Weather Conditions: BRIGHT, SUNNY, CLEAR Atmospheric Wind Conditions: Light ALM Pressure: Rising/Constant/Falling				Equipment used: LMSxi				Data Collected By: IAN WARNE				Input Checked by (sign): [REDACTED]				
Ground Conditions (eg dry, flooded, frost, snow etc): DAMP																
Location	Flow (l/min) (peak and residual) [] = time period	Atmospheric Pressure (mb)	BH Pressure (mb)	Time		% by volume in air			LEL (%)	ppm			Depth range to water (m bgl) (for a period of time (specify) following tap removal)	Well depth (m bgl) Current and (as installed)	Top of Response zone (m bgl)	Notes (eg, samples taken, dust installation, odours, sheens, broken headworks).
				hours	mins	Methane	Carbon Dioxide	Oxygen		H2S	CO	PID				
BH5	18.5 (19 secs)	1014	1036		0 (initial)	<0.1	<0.1	20.8					0.75	6.07		Water came up tube.
	0.1	1014	1014		15	41.0	0.9	9.6								
					30	40.0	0.9	9.4								
					60	39.0	0.9	9.7								
					90	38.5	0.8	9.8								
					120	39.5	0.8	9.5								
					163	39.0	0.8	9.4								
					240	-	-	-								
BH19	-0.3	1014	1013		0 (initial)	<0.1	<0.1	20.8					0.81	6.37		
	0.1	1014	1014		15	25.0	3.4	14.8								
					30	22.0	3.1	15.0								
					60	19.0	2.4	16.1								
					90	17.5	2.1	16.6								
					120	16.0	2.0	17.0								
					180	14.0	1.7	17.6								
					240	11.5	1.4	18.1								
					300	11.0	1.3	18.3								
					360	9.8	1.1	18.6								
	420	11.0	1.3	18.3												

GAS MONITORING RESULTS

Contract No: 722201
 Contract Name: SIZEWELL C

Contract Engineer: JOHN WILD
 Date: 17/10/2008

STRUCTURAL SOILS LTD



Weather Conditions: BRIGHT, SUNNY, CLEAR Atmospheric Wind Conditions: Light ALM Pressure: Rising/Constant/Falling				Equipment used: LMSx1				Data Collected By: IAN WARNE				Input Checked by (sign): [REDACTED]				
Ground Conditions (eg dry, flooded, frost, snow etc): DAMP																
Location	Flow (l/hr) (peak and residual) [] = time period	Atmospheric Pressure (mb)	BH Pressure (mb)	Time		% by volume in air			LEL (%)	(ppm)			Depth range to water (m bgl) (for a period of time (specify) following tap removal)	Well depth (mbgl) Current and (as installed)	Top of Response zone (m bgl)	Notes (eg, samples taken, dual installation, odours, sheens, broken headworks).
				hours	mins	Methane	Carbon Dioxide	Oxygen		H2S	CO	PD				
BH5	>28.0 (20 secs) 0.1	1020 1020	-3000 1020		0 (Initial)	<0.1	<0.1	20.8					0.77	6.08		Water came up tube.
					15	32.5	0.6	12.3								
					30	33.0	0.6	12.0								
					60	32.5	0.5	12.1								
					90	32.0	0.5	12.3								
					120	31.5	0.5	12.6								
					165	31.5	0.5	12.8								
	240	-	-	-												
BH19	0.3 (1 sec) 0.1	1020 1020	1021 1020		0 (Initial)	<0.1	<0.1	20.8					0.83	6.32		
					15	16.5	1.9	17.2								
					30	15.0	1.8	17.3								
					60	12.0	1.4	18.1								
					90	12.5	1.2	18.4								
					120	15.0	1.1	18.6								
					180	17.5	0.7	18.8								
					240	16.5	0.5	19.0								
	300	17.0	0.5	19.1												

GAS MONITORING RESULTS

Contract No: 722201
 Contract Name: SIZEWELL C

Contract Engineer: JOHN WILD
 Date: 20/10/2008

STRUCTURAL SOILS LTD



Weather Conditions: CLOUDY, OVERCAST Atmospheric Wind Conditions: Light/Medium ALM Pressure: Rising/Constant/Falling				Equipment used: LMSxi/Firstcheck (PID)				Data Collected By: IAN WARNE				Input Checked by (sign):				
Ground Conditions (eg dry, flooded, frost, snow etc):																
Location	Flow (l/hr) (peak and residual) [] = time period	Atmospheric Pressure (mb)	BH Pressure (mb)	Time		% by volume in air			LEL (%)	(ppm)			Depth range to water (m bgl) (for a period of time (specify) following tap removal)	Well depth (mbgl) Current and (as installed)	Top of Response zone (m bgl)	Notes (eg, samples taken, dual installation, odours, wheens, broken headworks).
				hours mins	secs	Methane	Carbon Dioxide	Oxygen		H2S	CO	PID				
BH6	>30 (13 secs)	1006	-3000		0 (Initial)	<0.1	<0.1	20.8		<0.1	<0.1		0.76	6.04		Water came up tube
	0.1	1006	1006		15	62.0	1.1	4.4		<0.1	<0.1					
					30	61.0	1.1	4.1		<0.1	<0.1					
					60	68.0	1.0	4.4		<0.1	<0.1					
					90	58.0	1.0	4.8		<0.1	<0.1					
					120	56.0	0.9	5.2		<0.1	<0.1					
					171	53.5	0.8	5.6		-	-					
					240	-	-	-		-	-					
BH19	0.1	1006	1006		0 (Initial)	<0.1	<0.1	20.8		<0.1	<0.1		0.78	8.31		
	0.1	1006	1006		15	23.0	2.9	15.4		<0.1	<0.1					
					30	21.5	2.8	15.9		<0.1	<0.1					
					60	17.0	2.0	17.1		<0.1	<0.1					
					90	16.5	1.8	17.6		<0.1	<0.1					
					120	19.5	1.6	18.0		<0.1	<0.1					
					186	24.0	1.1	18.6		<0.1	<0.1					
					240	22.5	0.5	19.1		<0.1	<0.1					
					300	19.5	0.5	19.2		<0.1	<0.1					
				360	20.5	0.5	19.2		<0.1	<0.1						

GAS MONITORING RESULTS

Contract No: 722201
 Contract Name: SIZEWELL C

Contract Engineer: JOHN WILD
 Date: 21/10/2008

STRUCTURAL SOILS LTD



Weather Conditions: BRIGHT, CLOUDY Atmospheric Wind Conditions: Light ALM Pressure: Rising/Constant/Falling				Equipment used: LMSx/Firstcheck (PID)				Data Collected By: IAN WARNE				Input Checked by (sign):				
Ground Conditions (eg dry, flooded, frost, snow etc): Damp																
Location	Flow (l/hr) (peak and residual) [] = time period	Atmospheric Pressure (mb)	BH Pressure (mb)	Time		% by volume in air			LEL (%)	(ppm)			Depth range to water (m bgl) (for a period of time (specify) following tap removal)	Well depth (mbgl) Current and (as installed)	Top of Response zone (m bgl)	Notes (eg, samples taken, dual installation, odours, sheens, broken headworks).
				hours mins	secs	Methane	Carbon Dioxide	Oxygen		H2S	CO	PID				
BH5	>30.0 (9 secs)	1008	-3000		0 (initial)	<0.1	<0.1	20.8		<0.1	<0.1		0.75	6.03		Water came up tube.
	0.1	1008	1006		15	35.0	0.5	11.0		<0.1	<0.1					
					30	35.0	0.5	10.7		<0.1	<0.1					
					60	34.0	0.5	10.8		<0.1	<0.1					
					90	32.5	0.5	11.3		<0.1	<0.1					
					120	32.0	0.5	11.6		<0.1	<0.1					
					162	31.5	0.5	11.8		<0.1	<0.1					
					240	-	-	-		-	-					
BH19	-0.3	1008	1007		0 (initial)	<0.1	<0.1	20.8		<0.1	<0.1		0.81	8.32		
	0.1	1008	1008		15	18.0	2.3	16.8		<0.1	<0.1					
					30	16.0	2.1	17.1		<0.1	<0.1					
					60	13.0	1.7	17.7		<0.1	<0.1					
					90	11.0	1.4	18.3		<0.1	<0.1					
					120	10.5	1.3	18.5		<0.1	<0.1					
					180	9.3	1.1	18.8		<0.1	<0.1					
					240	8.2	0.8	19.2		<0.1	<0.1					
					300	7.3	0.6	19.4		<0.1	<0.1					
					360	6.7	0.5	19.6		<0.1	<0.1					
	420	6.7	0.5	19.6		<0.1	<0.1									

GAS MONITORING RESULTS

Contract No: 722201
 Contract Name: SIZEWELL C

Contract Engineer: JOHN WILD
 Date: 22/10/2008

STRUCTURAL SOILS LTD



Weather Conditions: BRIGHT, CLEAR, SUNNY Atmospheric Wind Conditions: Light ALM Pressure: Rising/Constant/Falling				Equipment used: LMSxi/Firstcheck (PID)				Data Collected By: IAN WARNE				Input Checked by (sign):				
Ground Conditions (eg dry, flooded, frost, snow etc): Damp																
Location	Flow (l/hr) (peak and residual) [] = time period	Atmospheric Pressure (mb)	BH Pressure (mb)	Time		% by volume in air			LEL (%)	(ppm)			Depth range to water (m bgl) (for a period of time (specify) following tap removal)	Well depth (mbgl) Current and (as installed)	Top of Response zone (m bgl)	Notes (eg, samples taken, dual installation, odours, sheens, broken headworks).
				hours mins	secs	Methane	Carbon Dioxide	Oxygen		H2S	CO	PID				
BH5	>30.0 (11 secs)	1021	-3000		0 (initial)	<0.1	<0.1	20.8		<0.1	<0.1		0.78	8.03		Water came up tube.
	0.1	1021	1021		15	28.5	0.5	12.7		<0.1	<0.1					
					30	28.0	0.5	12.6		<0.1	<0.1					
					60	26.5	0.4	12.8		<0.1	<0.1					
					90	25.5	0.4	13.2		<0.1	<0.1					
					120	24.0	0.4	13.6		<0.1	<0.1					
					135	23.5	0.4	13.8		<0.1	<0.1					
					240	-	-	-		-	-					
BH10	0.1	1021	1021		0 (initial)	<0.1	<0.1	20.8		<0.1	<0.1		0.83	8.31		
	0.1	1021	1021		15	11.0	1.3	18.5		<0.1	<0.1					
					30	10.0	1.2	18.5		<0.1	<0.1					
					60	9.6	1.1	18.7		<0.1	<0.1					
					90	8.8	0.9	19.0		<0.1	<0.1					
					120	8.1	0.6	19.4		<0.1	<0.1					
					180	7.4	0.5	19.5		<0.1	<0.1					
					240	7.4	0.4	19.8		<0.1	<0.1					
	300	7.4	0.4	19.9		<0.1	<0.1									

GAS MONITORING RESULTS

Contract No: 722201
 Contract Name: SIZEWELL C

Contract Engineer: JOHN WILD
 Date: 23/10/2008

STRUCTURAL SOILS LTD



Weather Conditions: BRIGHT, CLOUDY Atmospheric Wind Conditions: Medium ALM Pressure: Rising/Constant/Falling				Equipment used: LMSxl/Firstcheck (PID)				Data Collected By: IAN WARNE				Input Checked by (sign):					
Ground Conditions (eg dry, flooded, frost, snow etc): Damp																	
Location	Flow (l/hr) (peak and residual) [] = time period	Atmospheric Pressure (mb)	BH Pressure (mb)	Time		% by volume in air			LEL (%)	(ppm)			Depth range to water (m bgl) (for a period of time (specify) following tap removal)	Well depth (mbgl) Current and (as installed)	Top of Response zone (m bgl)	Notes (eg, samples taken, dual installation, odours, sheens, broken headworks).	
				hours mins	secs	Methane	Carbon Dioxide	Oxygen		H2S	CO	PID					
BH5	>28.0 (8 secs)	1019	-3000		0 (Initial)	<0.1	<0.1	20.8		<0.1	<0.1		0.78	6.03		Water came up tube.	
	0.1	1019	1019		15	15.5	0.3	15.9		<0.1	<0.1						
						30	15.0	0.3	15.8		<0.1	<0.1					
						60	14.5	0.3	15.9		<0.1	<0.1					
						90	14.0	0.3	16.1		<0.1	<0.1					
						120	14.0	0.3	16.2		<0.1	<0.1					
						135	14.0	0.3	16.3		<0.1	<0.1					
						240	-	-	-		-	-					
BH19	0.2 (2 secs)	1018	1018		0 (Initial)	<0.1	<0.1	20.8		<0.1	<0.1		0.83	8.32			
	0.1	1018	1018		15	31.0	3.4	13.5		<0.1	<0.1						
						30	30.5	3.4	13.3		<0.1	<0.1					
						60	27.0	2.9	14.2		<0.1	<0.1					
						90	25.5	2.6	14.5		<0.1	<0.1					
						120	23.5	2.2	14.9		<0.1	<0.1					
						180	20.5	1.8	15.9		<0.1	<0.1					
						240	21.5	1.9	15.7		<0.1	<0.1					
						300	21.0	1.8	15.8		<0.1	<0.1					
						360	18.0	1.5	16.5		<0.1	<0.1					
						420	18.0	1.2	17.0		<0.1	<0.1					
						480	15.0	1.0	17.2		<0.1	<0.1					
					540	14.5	1.0	17.3		<0.1	<0.1						

GAS MONITORING RESULTS

Contract No: 722201
 Contract Name: SIZEWELL C

Contract Engineer: JOHN WILD
 Date: 24/10/2008

STRUCTURAL SOILS LTD



Weather Conditions: Cloudy/overcast Atmospheric Wind Conditions: Light ALM Pressure: Rising/Constant/Falling				Equipment used: LMSd/Firstcheck 6000				Data Collected By: IAN WARNE			Input Checked by (sign):					
Ground Conditions (eg dry, flooded, frost, snow etc): Wet																
Location	Flow (l/hr) (peak and residual) [] = time period	Atmospheric Pressure (mb)	BH Pressure (mb)	Time		% by volume in air			LEL (%)	(ppm)			Depth range to water (m bgl) (for a period of time (specify) following tap removal)	Well depth (m bgl) Current and [as installed]	Top of Response zone (m bgl)	Notes (eg, samples taken, dual installation, odours, sheens, broken headworks).
				hours	mins	Methane	Carbon Dioxide	Oxygen		H2S	CO	PID				
BH5	1.2 (30 secs)	1021	1022	0 (initial)		<0.1	<0.1	20.8		<0.1	<0.1		0.77	6.02		
	0.1	1021	1021	15		15.5	0.3	15.9		<0.1	<0.1					
				30		15.5	0.3	15.8		<0.1	<0.1					
				60		15.0	0.3	15.9		<0.1	<0.1					
				90		15.0	0.3	16.0		<0.1	<0.1					
				120		-	-	-								
				165		-	-	-								
				240		-	-	-								
BH7	1.3 (4 secs)	1021	1025	0 (initial)		<0.1	<0.1	<0.1		<0.1	<0.1		0.87	12.12		
	0.1	1021	1021	15		<0.1	<0.1	21.2		<0.1	<0.1					
				30		<0.1	<0.1	21.2		<0.1	<0.1					
				60		<0.1	<0.1	21.2		<0.1	<0.1					
				90		<0.1	<0.1	21.2		<0.1	<0.1					
				120		-	-	-								
				146		-	-	-								
				240		-	-	-								
BH18	0.2	1021	1021	0 (initial)		<0.1	<0.1	20.8		<0.1	<0.1		0.84	8.32		
	0.1	1021	1021	15		29.0	2.9	14.0		<0.1	<0.1					
				30		27.5	2.6	13.9		<0.1	<0.1					
				60		25.5	2.5	14.2		<0.1	<0.1					
				90		25.0	2.4	14.4		<0.1	<0.1					
				120		24.0	2.1	14.8		<0.1	<0.1					
				180		22.0	2.0	15.2		<0.1	<0.1					
				240		21.5	1.9	15.4		<0.1	<0.1					
BH21	-0.5	1021	1020	0 (initial)		<0.1	<0.1	20.6		<0.1	<0.1		0.43	8.94		
	0.1	1021	1021	15		80.0	5.8	2.9		<0.1	<0.1					
				30		59.0	4.7	7.0		<0.1	<0.1					
				60		33.5	2.8	12.2		<0.1	<0.1					
				90		20.0	1.6	19.0		<0.1	<0.1					
				120		12.0	0.7	18.1		<0.1	<0.1					
				180		5.0	0.3	20.3		<0.1	<0.1					
				240		4.2	0.1	20.6		<0.1	<0.1					
				300		-	-	-								
360		-	-	-												

GAS MONITORING RESULTS

Contract No: 722201
 Contract Name: SIZEWELL C

Contract Engineer: JOHN WILD
 Date: 27/10/2008

STRUCTURAL SOILS LTD



Weather Conditions: BRIGHT, CLEAR Atmospheric Wind Conditions: Light A.L.R Pressure: Rising/Constant/Falling				Equipment used: LMSd/Firstcheck 5000				Data Collected By: IAN WARNE				Input Checked by (align [redacted])				
Ground Conditions (eg dry, flooded, frost, snow etc): DAMP																
Location	Flow (Mhr) (peak and residual) [] = time period	Atmospheric Pressure (mb)	BH Pressure (mb)	Time		% by volume in air			LEL (%)	(ppm)			Depth range to water (m bgl) (for a period of time (specify) following tap removal)	Well depth (m bgl) Current and [as installed]	Top of Response zone (m bgl)	Notes (eg, samples taken, dual installation, odours, shears, broken headworks).
				hours	mins	Methane	Carbon Dioxide	Oxygen		H2S	CO	PID				
BH6	0.3 (2 secs)	1008	1008	0 (Initial)		<0.1	<0.1	20.8		<0.1	<0.1		0.74	8.02		Water came up tube.
				15	43.0	0.5	7.3	<0.1	<0.1							
	30	42.0	0.5	7.1	<0.1	<0.1										
	60	39.5	0.4	7.9	<0.1	<0.1										
	90	32.5	0.4	10.1	<0.1	<0.1										
	120	25.0	0.3	10.6	<0.1	<0.1										
	136	24.5	0.3	10.9	<0.1	<0.1										
	240	-	-	-												
BH7	-0.1	1008	1008	0 (Initial)		<0.1	<0.1	20.8		<0.1	<0.1		0.93	12.12		
				15	<0.1	<0.1	21.3	<0.1	<0.1							
	30	<0.1	<0.1	21.2	<0.1	<0.1										
	60	<0.1	<0.1	21.2	<0.1	<0.1										
	90	<0.1	<0.1	21.2	<0.1	<0.1										
	120	-	-	-												
	145	-	-	-												
	240	-	-	-												
BH19	-0.2 (1 sec)	1008	1007	0 (Initial)		<0.1	<0.1	20.8		<0.1	<0.1		0.79	8.32		
				15	55.0	4.2	7.5	<0.1	<0.1							
	30	54.0	4.2	7.3	<0.1	<0.1										
	60	45.5	3.5	8.9	<0.1	<0.1										
	90	40.0	3.3	10.4	<0.1	<0.1										
	120	35.0	2.8	11.8	<0.1	<0.1										
	160	27.5	2.1	13.4	<0.1	<0.1										
	240	23.0	1.9	14.5	<0.1	<0.1										
	300	23.0	1.9	14.5	<0.1	<0.1										
	360	22.5	1.8	14.5	<0.1	<0.1										
420	22.5	1.8	14.6	<0.1	<0.1											
BH21	-0.1	1008	1008	0 (Initial)		<0.1	<0.1	20.8		<0.1	<0.1		0.28	8.92		
				15	70.0	5.4	4.1	<0.1	<0.1							
	30	48.0	4.0	10.0	<0.1	<0.1										
	60	11.5	1.0	18.2	<0.1	<0.1										
	90	4.0	0.3	20.6	<0.1	<0.1										
	120	1.5	<0.1	21.2	<0.1	<0.1										
	180	0.4	<0.1	21.2	<0.1	<0.1										
	240	<0.1	<0.1	21.2	<0.1	<0.1										

GAS MONITORING RESULTS

Contract No: 722201
 Contract Name: SIZEWELL C

Contract Engineer: JOHN WILD
 Date: 28/10/2008

STRUCTURAL SOILS LTD



Weather Conditions: BRIGHT, CLEAR Atmospheric Wind Conditions: Light ALM Pressure: Rising/Constant/Falling				Equipment used: LMSx/Firstcheck 5009				Data Collected By: IAN WARNE				Input Checked by (sign):				
Ground Conditions (eg dry, flooded, frost, snow etc): DAMP																
Location	Flow (l/hr) (peak and residual) [] = time period	Atmospheric Pressure (mb)	BH Pressure (mb)	Time		% by volume in air			LEL (%)	(ppm)			Depth range to water (m bgl) (for a period of time (specify) following tap removal)	Well depth (m bgl) Current and (as installed)	Top of Response zone (m bgl)	Notes (eg, samples taken, dual installation, odours, shears, broken headworks)
				hours mins	secs	Methane	Carbon Dioxide	Oxygen		H2S	CO	PID				
BH6	1.3 (5 secs)	1010	1014		0 (Initial)	<0.1	<0.1	20.8		<0.1	<0.1		0.71	6.03		
	0.1	1010	1010	15	19.5	0.3	14.5		<0.1	<0.1						
				30	19.0	0.3	14.4		<0.1	<0.1						
				60	19.0	0.3	14.5		<0.1	<0.1						
				90	19.0	0.3	14.6		<0.1	<0.1						
				135	-	-	-									
				195	-	-	-									
240	-	-	-													
BH7	-0.6 (1 sec)	1010	1008		0 (Initial)	<0.1	<0.1	20.6		<0.1	<0.1		0.82	12.11		
	0.1	1010	1010	15	<0.1	<0.1	21.3		<0.1	<0.1						
				30	<0.1	<0.1	21.2		<0.1	<0.1						
				60	<0.1	<0.1	21.2		<0.1	<0.1						
				90	<0.1	<0.1	21.2		<0.1	<0.1						
				120	-	-	-									
				185	-	-	-									
240	-	-	-													
BH19	0.7 (5 secs)	1010	1012		0 (Initial)	<0.1	<0.1	20.8		<0.1	<0.1		0.79	8.32		
	0.1	1010	1010	15	55.0	3.6	8.0		<0.1	<0.1						
				30	56.0	3.6	7.9		<0.1	<0.1						
				60	48.5	3.2	9.2		<0.1	<0.1						
				90	42.0	2.7	10.6		<0.1	<0.1						
				120	36.0	2.2	12.0		<0.1	<0.1						
				150	35.0	1.8	13.5		<0.1	<0.1						
				240	35.0	1.7	13.9		<0.1	<0.1						
				380	29.0	1.5	14.5		<0.1	<0.1						
				390	22	1.3	15.3		<0.1	<0.1						
420	22	1.3	15.4		<0.1	<0.1										
BH21	-0.1 (1 sec)	1010	1010		0 (Initial)	<0.1	<0.1	20.8		<0.1	<0.1		0.34	8.92		
	0.1	1010	1010	15	71.0	5.9	3.9		<0.1	<0.1						
				30	41.5	4.9	10.0		<0.1	<0.1						
				60	17.0	1.4	16.8		<0.1	<0.1						
				90	7.3	0.4	19.8		<0.1	<0.1						
				120	3.6	0.2	20.8		<0.1	<0.1						
				180	1.3	<0.1	21.2		<0.1	<0.1						
				240	1.0	<0.1	21.2		<0.1	<0.1						
300	1.0	<0.1	21.2		<0.1	<0.1										

GAS MONITORING RESULTS

Contract No: 712201
 Contract Name: SIZEWELL C

Contract Engineer: JOHN WILD
 Date: 26/10/2008

STRUCTURAL SOILS LTD



Weather Conditions: BRIGHT, CLEAR Atmospheric Wind Conditions: Light ALN Pressure: Rising/Constant/Falling				Equipment used: LMSA#Hraichack 6000				Data Collected By: IAN WARNE				Input Checked by (sign):				
Ground Conditions (eg dry, flooded, frost, snow etc): DAMP																
Location	Flow (W/r) (peak and residual) [] = time period	Atmospheric Pressure (mb)	BH Pressure (mb)	Time		% by volume in air			LEL (%)	(ppm)			Depth range to water (m bgl) (for a period of time (specify) following tap removal)	Well depth (m bgl) Current and (as installed)	Top of Response zone (m bgl)	Notes (eg, samples taken, dual installation, odours, sheens, broken headworks)
				hours	mins	Methane	Carbon Dioxide	Oxygen		H2S	CO	PID				
BH6	7.4 (5 sec)	1010	1035	0 (initial)	<0.1	<0.1	20.8		<0.1	<0.1		0.71	6.02			
	0.1	1010	1010	15	22.0	0.3	14.3		<0.1	<0.1						
				30	21.5	0.3	13.9		<0.1	<0.1						
				60	21.0	0.3	14.0		<0.1	<0.1						
				90	20.5	0.3	14.2		<0.1	<0.1						
				120	20.5	0.3	14.3		<0.1	<0.1						
				165	-	-	-									
				240	-	-	-									
BH7	-0.4 (1 sec)	1010	1008	0 (initial)	<0.1	<0.1	20.8		<0.1	<0.1		0.80	12.12			
	0.1	1010	1010	15	<0.1	<0.1	21.3		<0.1	<0.1						
				30	<0.1	<0.1	21.3		<0.1	<0.1						
				60	<0.1	<0.1	21.3		<0.1	<0.1						
				90	<0.1	<0.1	21.3		<0.1	<0.1						
				120	-	-	-									
				145	-	-	-									
				240	-	-	-									
BH19	0.2 (1 sec)	1010	1011	0 (initial)	<0.1	<0.1	20.8		<0.1	<0.1		0.78	6.31			
	0.1	1010	1010	15	56.0	4.8	7.5		<0.1	<0.1						
				30	53.0	4.4	7.6		<0.1	<0.1						
				60	44.5	3.9	9.5		<0.1	<0.1						
				90	40.0	3.6	10.6		<0.1	<0.1						
				120	35.0	3.2	12.0		<0.1	<0.1						
				180	28.5	2.4	13.7		<0.1	<0.1						
				240	24.5	2.0	14.9		<0.1	<0.1						
				300	24.0	1.6	16.1		<0.1	<0.1						
360	24.0	1.6	15.2		<0.1	<0.1										
BH21	0.1 (1 sec)	1010	1010	0 (initial)	<0.1	<0.1	20.8		<0.1	<0.1		0.34	8.94			
	0.1	1010	1010	15	60.0	6.1	2.9		<0.1	<0.1						
				30	51.0	4.4	9.1		<0.1	<0.1						
				60	23.0	1.8	15.8		<0.1	<0.1						
				90	11.0	0.5	19.4		<0.1	<0.1						
				120	6.0	0.2	20.6		<0.1	<0.1						
				180	4.7	<0.1	21.3		<0.1	<0.1						
				240	4.7	<0.1	21.3		<0.1	<0.1						
				300	4.7	<0.1	21.3		<0.1	<0.1						

RESULTS OF IN-SITU MEASUREMENTS

Location: SIZEWELL C			Engineer: JOHN WILD			Contract Number: 722201				
Operator: IW		Instrument: 3		Barometric Pressure (mb) Start: 1014 Finish: 1014			Previous Day: Rising/Constant/Falling Next Day: Rising/Constant/Falling			
Date & Time: 16/10/08										
Weather: BRIGHT,CLOUDY				Ground Conditions: Damp						
Location Number	Peak Gas Flow (l/h)	Residual Gas Flow (l/h)	Methane (% Vol)	Carbon Dioxide (% Vol)	Oxygen (% Vol)	Water Depth # (m)	Borehole Depth # (m)	Borehole Pressure (mb)	Atm. Pressure (mb)	Samples Taken?
BH6	-	-	-	-	-	5.61	6.86	-	-	-
BH8	-	-	-	-	-	1.40	5.77	-	-	-
BH15	-	-	-	-	-	1.35	4.21	-	-	-
BH23	-	-	-	-	-	2.21	6.87	-	-	-
BH25	-	-	-	-	-	5.37	7.26	-	-	-

Instrument: 1 – GA90 IR Gas Analyser and GF60 Flow Meter
 2 – GA94 IR Gas Analyser and GF60 Flow Meter
 3 – LMSxi Gas Analyser

- From existing ground levels

Gas flow measured over 1 minute period(s)

Checked by/date: XXXXXXXXXX

RESULTS OF IN-SITU MEASUREMENTS

Location: SIZEWELL C			Engineer: JOHN WILD			Contract Number: 722201						
Operator: IW	Instrument: 3		Barometric Pressure (mb) Start: 1020 Finish: 1020			Previous Day: Rising/Constant/Falling Next Day: Rising/Constant/Falling						
Date & Time: 17/10/08			Weather: CLEAR, BRIGHT, SUNNY								Ground Conditions: Damp	
Location Number	Peak Gas Flow (l/h)	Residual Gas Flow (l/h)	Methane (% Vol)	Carbon Dioxide (% Vol)	Oxygen (% Vol)	Water Depth # (m)	Borehole Depth # (m)	Borehole Pressure (mb)	Atm. Pressure (mb)	Samples Taken?		
BH6	-	-	-	-	-	5.28	6.84	-	-	-		
BH8	-	-	-	-	-	1.43	5.75	-	-	-		
BH15	-	-	-	-	-	1.33	4.43	-	-	-		
BH23	-	-	-	-	-	2.23	6.96	-	-	-		
BH25	-	-	-	-	-	5.23	7.26	-	-	-		
BH36	-	-	-	-	-	0.37	7.62	-	-	-		

Instrument: 1 – GA90 IR Gas Analyser and GF60 Flow Meter
 2 – GA94 IR Gas Analyser and GF60 Flow Meter
 3 – LMSxi Gas Analyser

- From existing ground levels

Gas flow measured over 1 minute period(s)

Checked by/date: XXXXXXXXXX

RESULTS OF IN-SITU MEASUREMENTS

Location: SIZEWELL C			Engineer: JOHN WILD			Contract Number: 722201					
Operator: IW	Instrument: 3		Barometric Pressure (mb) Start: 1006 Finish: 1006			Previous Day: Rising/Constant/Falling Next Day: Rising/Constant/Falling					
Date & Time: 20/10/08			Weather: CLOUDY, OVERCAST								Ground Conditions: Damp
Location Number	Peak Gas Flow (l/h)	Residual Gas Flow (l/h)	Methane (% Vol)	Carbon Dioxide (% Vol)	Oxygen (% Vol)	Water Depth # (m)	Borehole Depth # (m)	Borehole Pressure (mb)	Atm Pressure (mb)	Samples Taken?	
BH6	-	-	-	-	-	2.27	6.85	-	-	-	
BH8	-	-	-	-	-	1.44	5.75	-	-	-	
BH15	-	-	-	-	-	1.31	4.21	-	-	-	
BH23	-	-	-	-	-	2.06	6.93	-	-	-	
BH25	-	-	-	-	-	4.69	7.25	-	-	-	
BH36	-	-	-	-	-	0.41	7.87	-	-	-	
BH38	-	-	-	-	-	1.38	7.86	-	-	-	

Instrument: 1 - GA90 IR Gas Analyser and GF60 Flow Meter
 2 - GA94 IR Gas Analyser and GF60 Flow Meter
 3 - LMSxi Gas Analyser

- From existing ground levels

Gas flow measured over 1 minute period(s)

Checked by/date: XXXXXXXXXX

RESULTS OF IN-SITU MEASUREMENTS

Location: SIZEWELL C			Engineer: JOHN WILD			Contract Number: 722201						
Operator: IW	Instrument: 3		Barometric Pressure (mb) Start: 1008 Finish: 1008			Previous Day: Rising/Constant/Falling Next Day: Rising/Constant/Falling						
Date & Time: 21/10/08			Weather: BRIGHT, CLOUDY								Ground Conditions: Damp	
Location Number	Peak Gas Flow (l/h)	Residual Gas Flow (l/h)	Methane (% Vol)	Carbon Dioxide (% Vol)	Oxygen (% Vol)	Water Depth # (m)	Borehole Depth # (m)	Borehole Pressure (mb)	Atm. Pressure (mb)	Samples Taken?		
BH6	-	-	-	-	-	1.94	6.81	-	-	-		
BH8	-	-	-	-	-	1.39	5.75	-	-	-		
BH15	-	-	-	-	-	1.32	4.21	-	-	-		
BH23	-	-	-	-	-	2.04	6.94	-	-	-		
BH25	-	-	-	-	-	4.56	7.26	-	-	-		
BH30	-	-	-	-	-	DRY	3.02	-	-	-		
BH36	-	-	-	-	-	0.36	7.55	-	-	-		
BH37	-	-	-	-	-	1.37	7.29	-	-	-		
BH38	-	-	-	-	-	1.35	7.87	-	-	-		

Instrument: 1 - GA90 IR Gas Analyser and GF60 Flow Meter
 2 - GA94 IR Gas Analyser and GF60 Flow Meter
 3 - LMSxi Gas Analyser

- From existing ground levels

Gas flow measured on 21/10/08 at 10:08 AM

Checked by/date: XXXXXXXXXX

RESULTS OF IN-SITU MEASUREMENTS

Location: SIZEWELL C			Engineer: JOHN WILD			Contract Number: 722201						
Operator: IW		Instrument: 3		Barometric Pressure (mb) Start: 1021 Finish: 1021			Previous Day: Rising/Constant/Falling Next Day: Rising/Constant/Falling					
Date & Time: 22/10/08			Weather: CLEAR, BRIGHT, SUNNY								Ground Conditions: Damp	
Location Number	Peak Gas Flow (l/h)	Residual Gas Flow (l/h)	Methane (% Vol)	Carbon Dioxide (% Vol)	Oxygen (% Vol)	Water Depth # (m)	Borehole Depth # (m)	Borehole Pressure (mb)	Atm. Pressure (mb)	Samples Taken?		
BH6	-	-	-	-	-	1.65	7.12	-	-	-		
BH8	-	-	-	-	-	1.40	5.74	-	-	-		
BH15	-	-	-	-	-	1.32	4.45	-	-	-		
BH23	-	-	-	-	-	1.97	6.91	-	-	-		
BH25	-	-	-	-	-	4.41	7.54	-	-	-		
BH30	-	-	-	-	-	DRY	3.01	-	-	-		
BH34	-	-	-	-	-	DRY	3.03	-	-	-		
BH36	-	-	-	-	-	0.40	7.58	-	-	-		
BH37	-	-	-	-	-	1.39	7.29	-	-	-		
BH38	-	-	-	-	-	1.37	7.87	-	-	-		

Instrument: 1 - GA90 IR Gas Analyser and GP60 Flow Meter
 2 - GA94 IR Gas Analyser and GP60 Flow Meter
 3 - LMSxi Gas Analyser

- From existing ground levels

Gas flow measured over 1 minute period(s)

Checked by/date: [REDACTED]

RESULTS OF IN-SITU MEASUREMENTS

Location: SIZEWELL C			Engineer: JOHN WILD			Contract Number: 722201						
Operator: IW		Instrument: 3		Barometric Pressure (mb) Start: 1019 Finish: 1018			Previous Day: Rising/Constant/Falling Next Day: Rising/Constant/Falling					
Date & Time: 23/10/08				Weather: CLOUDY/OVERCAST							Ground Conditions: Damp	
Location Number	Peak Gas Flow (l/h)	Residual Gas Flow (l/h)	Methane (% Vol)	Carbon Dioxide (% Vol)	Oxygen (% Vol)	Water Depth # (m)	Borehole Depth # (m)	Borehole Pressure (mb)	Atm. Pressure (mb)	Samples Taken?		
BH6	-	-	-	-	-	1.53	7.12	-	-	-		
BH8	-	-	-	-	-	1.35	5.68	-	-	-		
BH15	-	-	-	-	-	1.32	4.48	-	-	-		
BH23	-	-	-	-	-	1.92	6.89	-	-	-		
BH25	-	-	-	-	-	4.27	7.26	-	-	-		
BH30	-	-	-	-	-	DRY	2.96	-	-	-		
BH34	-	-	-	-	-	DRY	2.97	-	-	-		
BH36	-	-	-	-	-	0.49	7.59	-	-	-		
BH37	-	-	-	-	-	1.43	7.30	-	-	-		
BH38	-	-	-	-	-	1.41	7.87	-	-	-		
BH39	-	-	-	-	-	1.02	8.35	-	-	-		

Instrument: 1 – GA90 IR Gas Analyser and GF60 Flow Meter
 2 – GA94 IR Gas Analyser and GF60 Flow Meter
 3 – LMSxi Gas Analyser

- From existing ground levels

Gas flow measured over 1 minute period(s)

Checked by/date: [REDACTED]

RESULTS OF IN-SITU MEASUREMENTS

Location: SIZEWELL C		Engineer: JOHN WILD	Contract Number: 722201
Operator: IW	Instrument: 3	Barometric Pressure (mb) Start: 1021 Finish: 1021	Previous Day: Rising/Constant/Falling Next Day: Rising/Constant/Falling
Date & Time: 24/10/08			

Weather: **CLOUDY/OVERCAST** Ground Conditions: **Wet**

Location Number	Peak Gas Flow (l/h)	Residual Gas Flow (l/h)	Methane (% Vol)	Carbon Dioxide (% Vol)	Oxygen (%Vol)	Water Depth # (m)	Borehole Depth # (m)	Borehole Pressure (mb)	Atm. Pressure (mb)	Samples Taken?
BH6	-	-	-	-	-	1.27	6.88	-	-	-
BH8	-	-	-	-	-	1.35	5.68	-	-	-
BH13	-	-	-	-	-	4.07	9.08	-	-	-
BH15	-	-	-	-	-	1.34	4.48	-	-	-
BH23	-	-	-	-	-	1.84	6.89	-	-	-
BH25	-	-	-	-	-	4.19	7.26	-	-	-
BH30	-	-	-	-	-	DRY	2.96	-	-	-
BH34	-	-	-	-	-	DRY	2.97	-	-	-
BH36	-	-	-	-	-	0.37	7.86	-	-	-
BH37	-	-	-	-	-	1.13	7.12	-	-	-
BH38	-	-	-	-	-	1.03	7.31	-	-	-
BH39	-	-	-	-	-	1.05	8.38	-	-	-

Instrument: 1 – GA90 IR Gas Analyser and GF60 Flow Meter
 2 – GA94 IR Gas Analyser and GF60 Flow Meter
 3 – LMSxi Gas Analyser

- From existing ground levels

Gas flow measured over 1 minute period(s)

Checked by/date: XXXXXXXXXX

RESULTS OF IN-SITU MEASUREMENTS

Location: SIZEWELL C		Engineer: JOHN WILD	Contract Number: 722201
Operator: IW	Instrument: 3	Barometric Pressure (mb) Start: 1008 Finish: 1008	Previous Day: Rising/Constant/Falling Next Day: Rising/Constant/Falling
Date & Time: 27/10/08		Weather: BRIGHT CLEAR	
		Ground Conditions: Damp	

Location Number	Peak Gas Flow (l/h)	Residual Gas Flow (l/h)	Methane (% Vol)	Carbon Dioxide (% Vol)	Oxygen (% Vol)	Water Depth # (m)	Borehole Depth # (m)	Borehole Pressure (mb)	Atm. Pressure (mb)	Samples Taken?
BH6	-	-	-	-	-	0.57	6.86	-	-	-
BH8	-	-	-	-	-	1.34	5.69	-	-	-
BH13	-	-	-	-	-	0.97	9.08	-	-	-
BH15	-	-	-	-	-	1.32	4.49	-	-	-
BH23	-	-	-	-	-	1.56	6.89	-	-	-
BH25	-	-	-	-	-	3.82	7.28	-	-	-
BH30	-	-	-	-	-	DRY	2.95	-	-	-
BH34	-	-	-	-	-	DRY	2.97	-	-	-
BH36	-	-	-	-	-	0.38	7.59	-	-	-
BH37	-	-	-	-	-	1.16	7.15	-	-	-
BH38	-	-	-	-	-	1.06	7.59	-	-	-
BH39	-	-	-	-	-	1.03	8.39	-	-	-
BH40	-	-	-	-	-	3.27	16.17	-	-	-

Instrument: 1 – GA90 IR Gas Analyser and GF60 Flow Meter
 2 – GA94 IR Gas Analyser and GF60 Flow Meter
 3 – LMSxi Gas Analyser

- From existing ground levels

Gas flow measured over 1 minute period(s)

Checked by/date: XXXXXXXXXX

RESULTS OF IN-SITU MEASUREMENTS

Location: SIZEWELL C			Engineer: JOHN WILD			Contract Number: 722201				
Operator: IW		Instrument: 3		Barometric Pressure (mb) Start: 1010 Finish: 1010			Previous Day: Rising/Constant/Falling Next Day: Rising/Constant/Falling			
Date & Time: 28/10/08										
Weather: BRIGHT, CLEAR				Ground Conditions: Damp						
Location Number	Peak Gas Flow (l/h)	Residual Gas Flow (l/h)	Methane (% Vol)	Carbon Dioxide (% Vol)	Oxygen (% Vol)	Water Depth # (m)	Borehole Depth # (m)	Borehole Pressure (mb)	Atm. Pressure (mb)	Samples Taken?
BH6	-	-	-	-	-	0.51	6.87	-	-	-
BH8	-	-	-	-	-	1.36	5.69	-	-	-
BH13	-	-	-	-	-	0.73	9.10	-	-	-
BH15	-	-	-	-	-	1.29	4.49	-	-	-
BH23	-	-	-	-	-	1.53	6.89	-	-	-
BH25	-	-	-	-	-	3.74	7.27	-	-	-
BH30	-	-	-	-	-	DRY	2.96	-	-	-
BH34	-	-	-	-	-	DRY	2.97	-	-	-
BH36	-	-	-	-	-	0.31	7.59	-	-	-
BH37	-	-	-	-	-	1.05	7.14	-	-	-
BH38	-	-	-	-	-	0.97	7.58	-	-	-
BH39	-	-	-	-	-	0.98	8.38	-	-	-
BH40	-	-	-	-	-	3.27	16.14	-	-	-

Instrument: 1 – GA90 IR Gas Analyser and GF60 Flow Meter
 2 – GA94 IR Gas Analyser and GF60 Flow Meter
 3 – LMSxi Gas Analyser

- From existing ground levels

Gas flow measured over 1 minute period(s)

Checked by/date: [REDACTED]

RESULTS OF IN-SITU MEASUREMENTS

Location: SIZEWELL C			Engineer: JOHN WILD			Contract Number: 722201						
Operator: IW		Instrument: 3		Barometric Pressure (mb) Start: 1010 Finish: 1010			Previous Day: Rising/Constant/Falling Next Day: Rising/Constant/Falling					
Date & Time: 29/10/08			Weather: BRIGHT, CLEAR								Ground Conditions: Damp	
Location Number	Peak Gas Flow (l/h)	Residual Gas Flow (l/h)	Methane (% Vol)	Carbon Dioxide (% Vol)	Oxygen (% Vol)	Water Depth # (m)	Borehole Depth # (m)	Borehole Pressure (mb)	Atm. Pressure (mb)	Samples Taken?		
BH6	-	-	-	-	-	0.55	6.86	-	-	-		
BH8	-	-	-	-	-	1.41	5.69	-	-	-		
BH12	-	-	-	-	-	1.03	10.57	-	-	-		
BH13	-	-	-	-	-	0.73	9.09	-	-	-		
BH14	-	-	-	-	-	0.94	8.30	-	-	-		
BH15	-	-	-	-	-	1.29	4.21	-	-	-		
BH23	-	-	-	-	-	1.46	6.88	-	-	-		
BH25	-	-	-	-	-	3.65	7.27	-	-	-		
BH30	-	-	-	-	-	DRY	2.96	-	-	-		
BH34	-	-	-	-	-	DRY	2.96	-	-	-		
BH36	-	-	-	-	-	0.36	7.85	-	-	-		
BH37	-	-	-	-	-	1.07	7.14	-	-	-		
BH38	-	-	-	-	-	0.98	7.57	-	-	-		
BH39	-	-	-	-	-	1.04	8.41	-	-	-		
BH40	-	-	-	-	-	3.27	16.11	-	-	-		

Instrument: 1 – GA90 IR Gas Analyser and GF60 Flow Meter
 2 – GA94 IR Gas Analyser and GF60 Flow Meter
 3 – LMSxi Gas Analyser

- From existing ground levels

Gas flow measured over 1 minute period(s)

Checked by/date: XXXXXXXXXX

APPENDIX F

- (ii) Permeability Test Results
- (iii) Soakaway Test Results

IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH6**

Depth (m below GL): **6.20-7.20**

Test Number: **1**

Test Date: **26/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **1.40**

National Grid Co-ordinates: **E:647320.8 N:264235.4**

TEST SETUP DETAILS

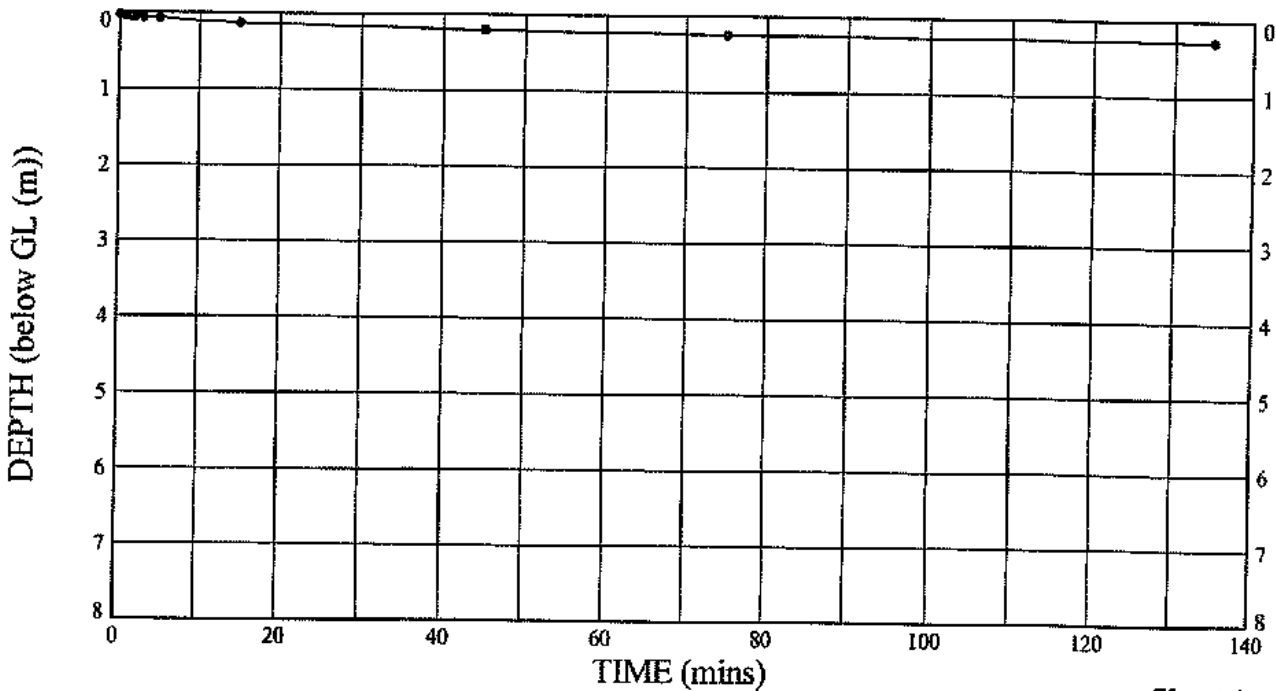
Depth measurements recorded from ground level.

Depth to top of response zone:	6.20 m	Type of piezometer:	Casagrande piezo
Depth to base of response zone:	7.20 m	Slotted pipe section:	- m
Length of response zone:	1.00 m	Type of piezometer fill:	Gravel
Initial groundwater level prior to test:	1.27 m	Weather:	Overcast
Borehole diameter:	200 mm		
Monitoring well diameter:	19 mm		

TEST MEASUREMENTS

Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho
00:00:00	0.02	1.25	1.00	00:45:00	0.20	1.07	0.86
00:00:15	0.03	1.24	0.99	01:15:00	0.24	1.03	0.82
00:00:30	0.03	1.24	0.99	02:15:00	0.27	1.00	0.80
00:00:45	0.04	1.23	0.98				
00:01:00	0.04	1.23	0.98				
00:01:30	0.05	1.22	0.98				
00:02:00	0.05	1.22	0.88				
00:03:00	0.06	1.21	0.97				
00:05:00	0.07	1.20	0.96				
00:15:00	0.15	1.14	0.91				

PLOT OF WATER DEPTH AGAINST TIME



Sheet 1 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	24/03/09	[Redacted]	24/3/09
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH6**

Depth (m below GL): **6.20-7.20**

Test Number: **1**

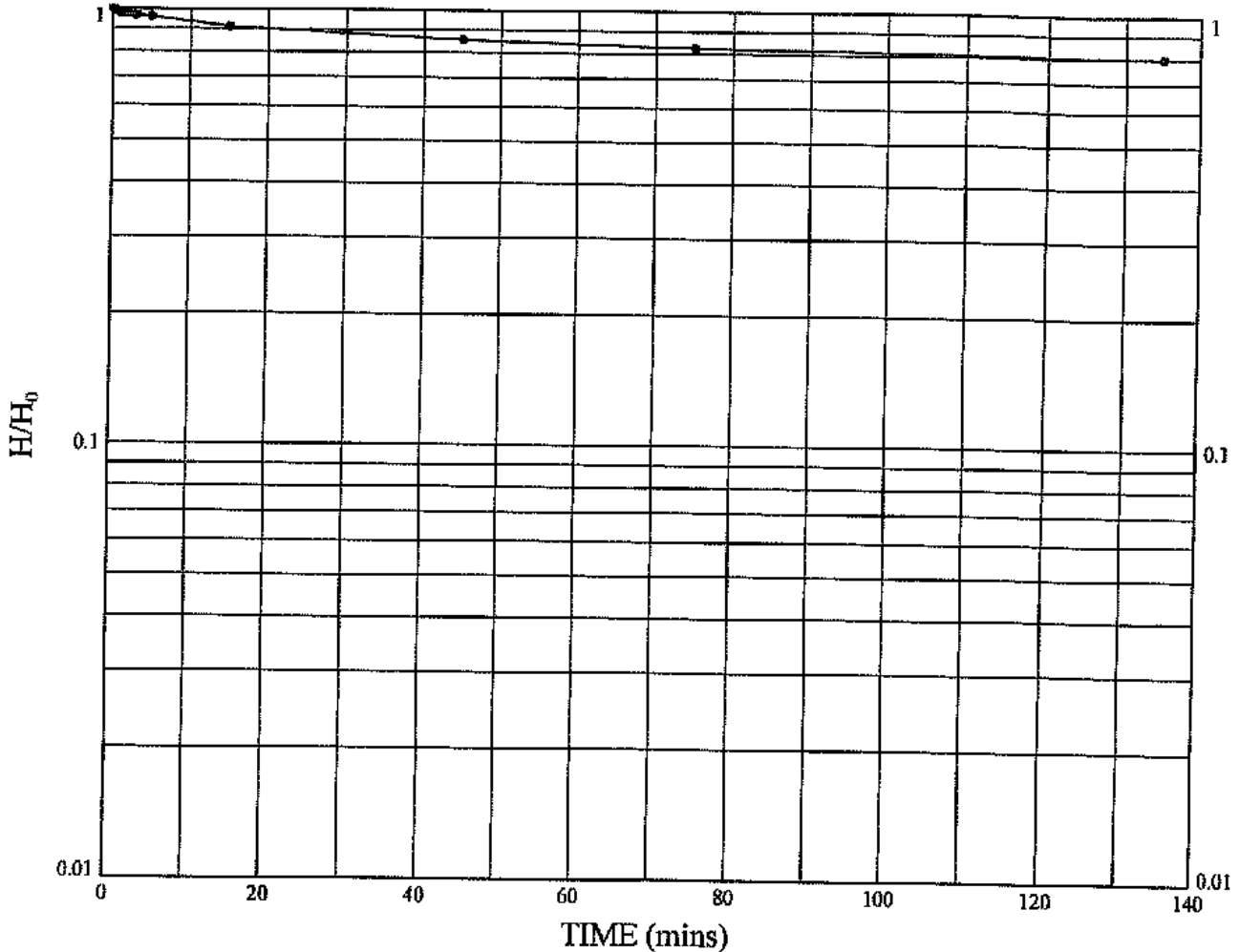
Test Date: **26/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **1.40**

National Grid Co-ordinates: **E:647320.8 N:264235.4**

PLOT OF H/H₀ AGAINST TIME



Cross Sectional Area, A = **0.00028** m²

Intake Factor, F/D = **15.29** m

Basic Time Lag, T (from plot) = **102014** sec

In-situ Permeability, $k = \frac{A}{F \times T}$ = **1.82×10^{-7}** m/sec

Notes : Intake Factor equation from Fig 7 BS5930:1999 section 25.4.6 has been used to calculate permeability. To enable calculation of permeability a measured standing water level of 1.27m prior to the test was used to determine head, H. Permeability has been calculated using the Graphical method in accordance with BS5930:1999 25.4.6.1 b.

Sheet 2 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Contract:	Compiled By	Date	Checked By	Date
Sizewell C Supplementary Investigation	[Redacted]	24/03/09	[Redacted]	24/3/9
	Job No:		722201	



STRUCTURAL_SOILS_GINT_LIBRARY_GLB11 - PERM - 2 OF 2 - WELL - FALL OR RISE | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_D2 | 240309 - 14:45

IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH8**

Depth (m below GL): **5.25-6.25**

Test Number: **1**

Test Date: **26/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **2.12**

National Grid Co-ordinates: **E:647467.3 N:264183.5**

TEST SETUP DETAILS

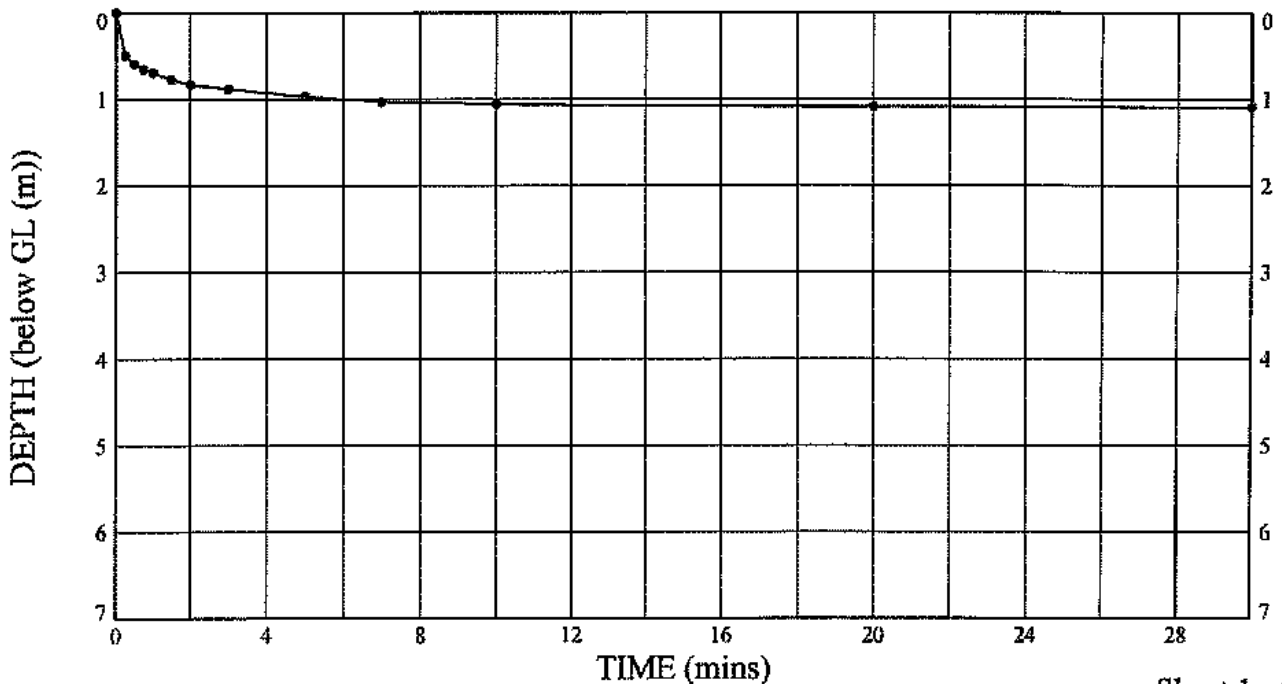
Depth measurements recorded from ground level.

Depth to top of response zone:	5.25 m	Type of piezometer:	Casagrande piezo
Depth to base of response zone:	6.25 m	Slotted pipe section:	- m
Length of response zone:	1.00 m	Type of piezometer fill:	Gravel
Initial groundwater level prior to test:	1.13 m	Weather:	Fine
Borehole diameter:	200 mm		
Monitoring well diameter:	19 mm		

TEST MEASUREMENTS

Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho
00:00:00	0.00	1.13	1.00	00:10:00	1.06	0.07	0.06				
00:00:15	0.49	0.64	0.57	00:20:00	1.09	0.04	0.04				
00:00:30	0.59	0.54	0.48	00:30:00	1.09	0.04	0.04				
00:00:45	0.65	0.48	0.43								
00:01:00	0.69	0.44	0.39								
00:01:30	0.77	0.36	0.32								
00:02:00	0.83	0.30	0.27								
00:03:00	0.88	0.25	0.22								
00:05:00	0.97	0.16	0.14								
00:07:00	1.03	0.10	0.09								

PLOT OF WATER DEPTH AGAINST TIME



Sheet 1 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	24/03/09	[REDACTED]	24/3/9
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH8**

Depth (m below GL): **5.25-6.25**

Test Number: **1**

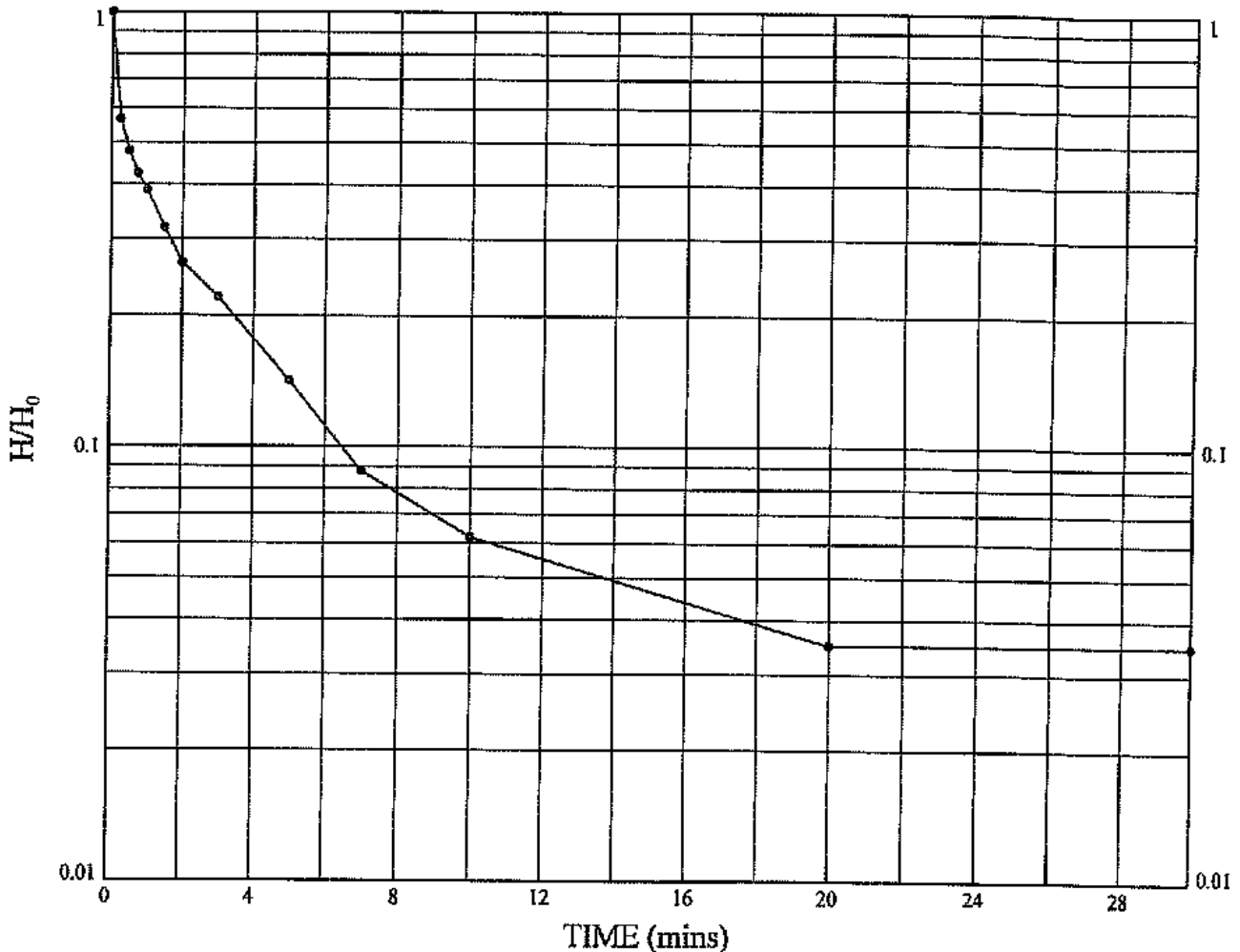
Test Date: **26/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **2.12**

National Grid Co-ordinates: **E:647467.3 N:264183.5**

PLOT OF H/H₀ AGAINST TIME



Cross Sectional Area, A = **0.00028** m²

Intake Factor, F/D = **15.29** m

Basic Time Lag, T (from plot) = **68** sec

In-situ Permeability, $k = \frac{A}{F \times T}$ = **2.73×10^{-4}** m/sec

Notes: Intake Factor equation from Fig 7 BS5930:1999 section 25.4.6 has been used to calculate permeability. To enable calculation of permeability a measured standing water level of 1.13m prior to the test was used to determine head, H. Permeability has been calculated using the Graphical method in accordance with BS5930:1999 25.4.6.1 b.

Sheet 2 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	24/03/09	[Redacted]	24/3/9
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH8**

Depth (m below GL): **5.25-6.25**

Test Number: **2**

Test Date: **26/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **2.12**

National Grid Co-ordinates: **E:647467.3 N:264183.5**

TEST SETUP DETAILS

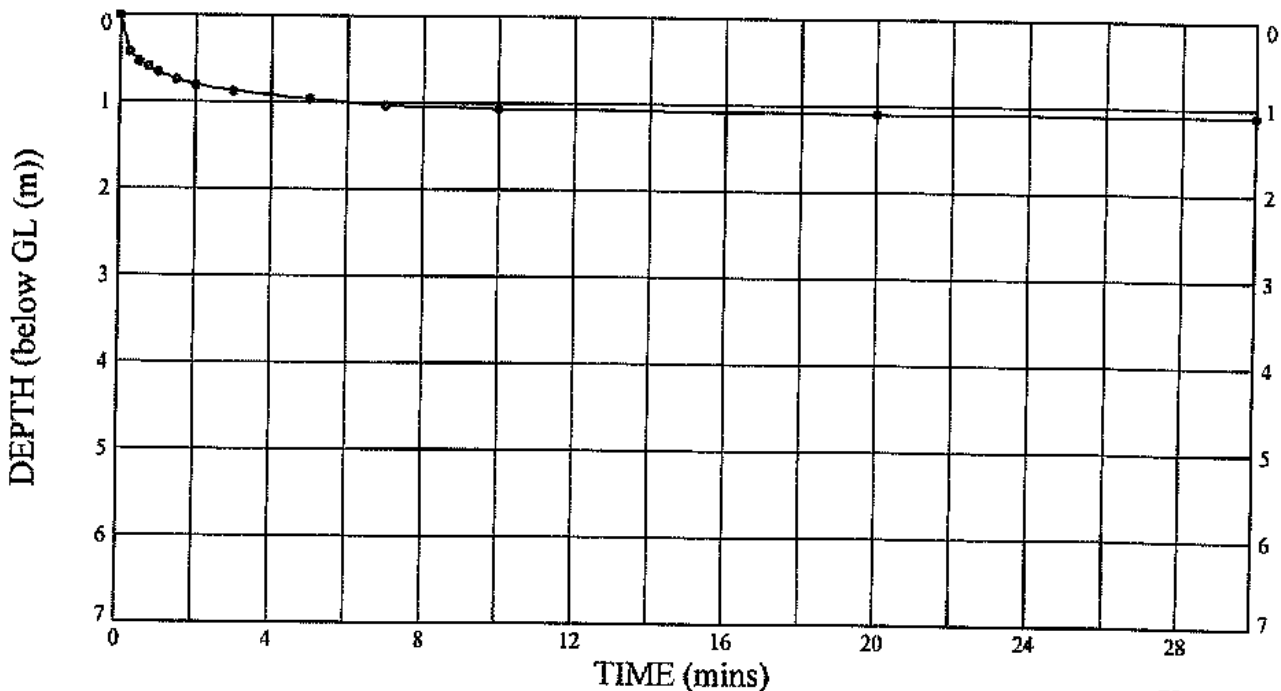
Depth measurements recorded from ground level.

Depth to top of response zone:	5.25 m	Type of piezometer:	Casagrande piezo
Depth to base of response zone:	6.25 m	Slotted pipe section:	- m
Length of response zone:	1.00 m	Type of piezometer fill:	Gravel
Initial groundwater level prior to test:	1.13 m	Weather:	Fine
Borehole diameter:	200 mm		
Monitoring well diameter:	19 mm		

TEST MEASUREMENTS

Time (mins)	Water depth (m)	Head (m)	H/H ₀	Time (mins)	Water depth (m)	Head (m)	H/H ₀	Time (mins)	Water depth (m)	Head (m)	H/H ₀
00:00:00	0.00	1.13	1.00	00:10:00	1.06	0.07	0.06				
00:00:15	0.42	0.71	0.63	00:20:00	1.09	0.04	0.04				
00:00:30	0.53	0.60	0.53	00:30:00	1.09	0.04	0.04				
00:00:45	0.59	0.54	0.48								
00:01:00	0.65	0.48	0.43								
00:01:30	0.74	0.39	0.35								
00:02:00	0.80	0.33	0.29								
00:03:00	0.87	0.26	0.23								
00:05:00	0.96	0.17	0.15								
00:07:06	1.03	0.10	0.09								

PLOT OF WATER DEPTH AGAINST TIME



Sheet 1 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	24/03/09	[REDACTED]	24/3/09
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	



STRUCTURAL_SOILS_GINT_LIBRARY.GLBII - PERM - 1 OF 2 - WELL - FALL OR RISE | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 24/03/09 - 14:42

IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH8**

Depth (m below GL): **5.25-6.25**

Test Number: **2**

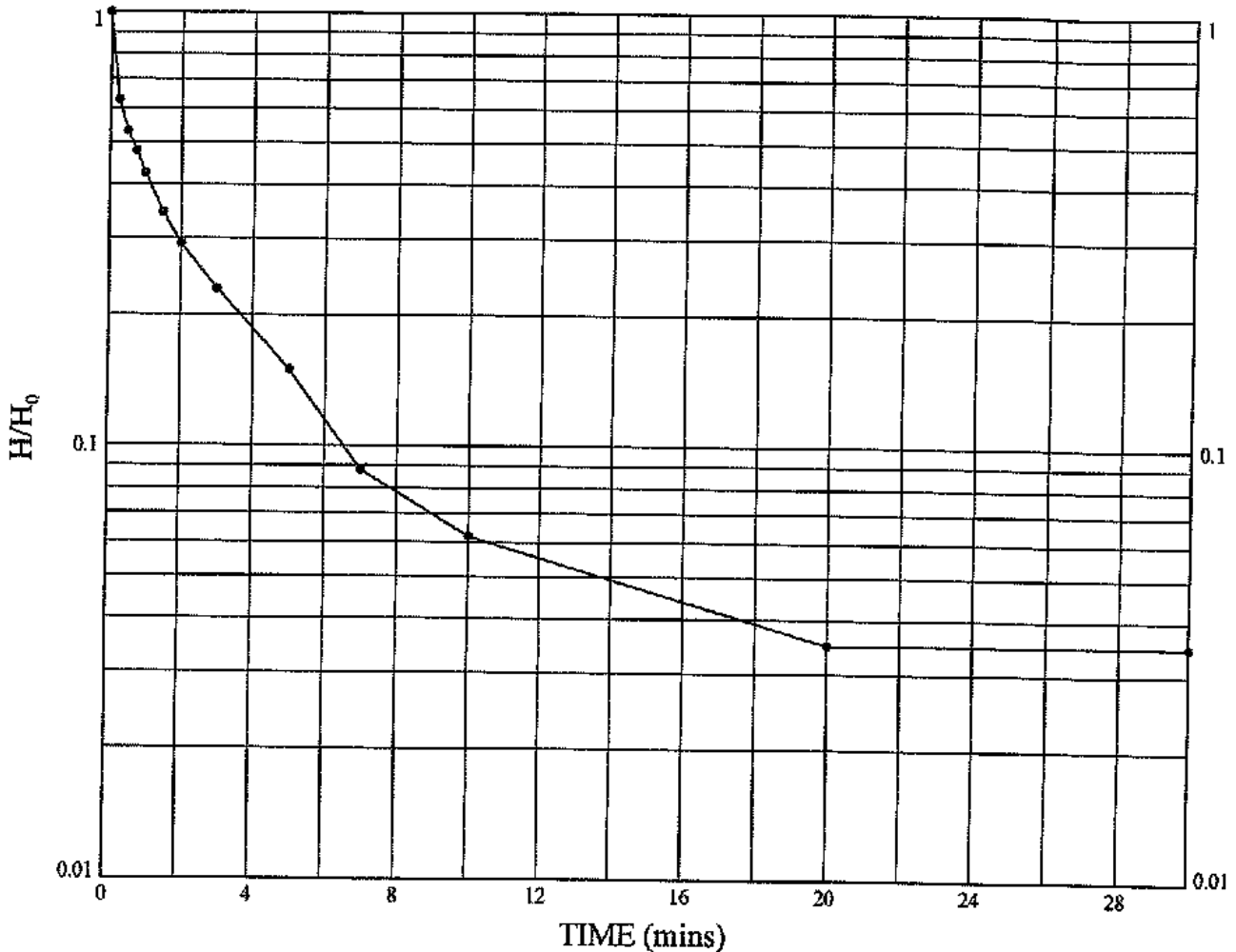
Test Date: **26/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **2.12**

National Grid Co-ordinates: **E:647467.3 N:264183.5**

PLOT OF H/H₀ AGAINST TIME



Cross Sectional Area, A = **0.00028** m²

Intake Factor, F/D = **15.29** m

Basic Time Lag, T (from plot) = **80** sec

In-situ Permeability, $k = \frac{A}{F \times T}$ = **2.32×10^{-4}** m/sec

Notes : Intake Factor equation from Fig 7 BS5930:1999 section 25.4.6 has been used to calculate permeability. To enable calculation of permeability a measured standing water level of 1.13m prior to the test was used to determine head, H. Permeability has been calculated using the Graphical method in accordance with BS5930:1999 25.4.6.1 b.

Sheet 2 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

	Compiled By	Date	Checked By	Date
	[REDACTED]	24/03/09	[REDACTED]	24/3/09
Contract: Sizewell C Supplementary Investigation			Job No: 722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH12**

Depth (m below GL): **8.50-16.50**

Test Number: **1**

Test Date: **25/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **1.83**

National Grid Co-ordinates: **E:647460.9 N:264099.3**

TEST SETUP DETAILS

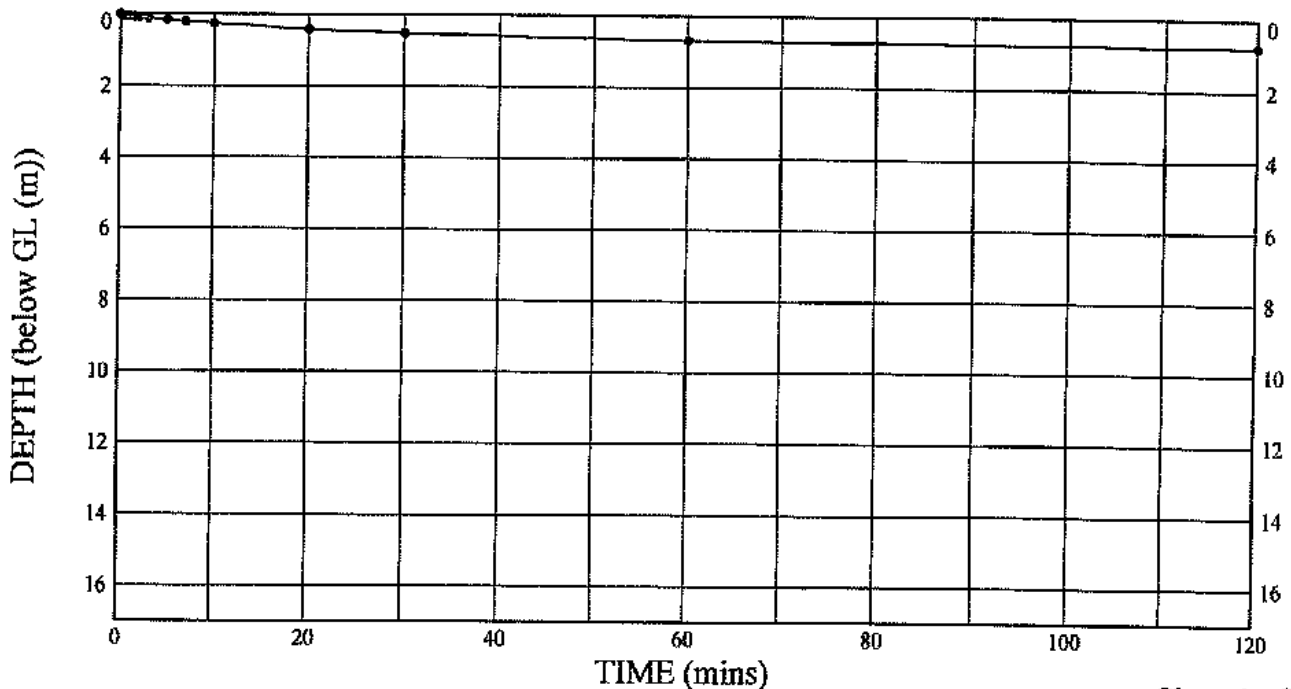
Depth measurements recorded from ground level.

Depth to top of response zone:	8.50 m	Type of piezometer:	Slotted standpipe
Depth to base of response zone:	16.50 m	Slotted pipe section:	9.00-1.00 m (Fitted with Geotextile)
Length of response zone:	8.00 m	Type of piezometer fill:	
Initial groundwater level prior to test:	0.94 m	Weather:	Overcast
Borehole diameter:	200 mm		
Monitoring well diameter:	50 mm		

TEST MEASUREMENTS

Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho
00:00:00	0.01	0.93	1.00	00:10:00	0.26	0.68	0.73				
00:00:15	0.03	0.91	0.98	00:20:00	0.41	0.53	0.57				
00:00:30	0.04	0.90	0.97	00:30:00	0.51	0.43	0.46				
00:00:45	0.05	0.89	0.96	01:00:00	0.69	0.25	0.27				
00:01:00	0.06	0.88	0.95	02:00:00	0.78	0.16	0.17				
00:01:30	0.08	0.86	0.93								
00:02:00	0.09	0.85	0.91								
00:03:00	0.11	0.83	0.89								
00:05:00	0.16	0.78	0.84								
00:07:00	0.20	0.74	0.80								

PLOT OF WATER DEPTH AGAINST TIME



Sheet 1 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	24/03/09	[REDACTED]	24/3/9
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH12**

Depth (m below GL): **8.50-16.50**

Test Number: **1**

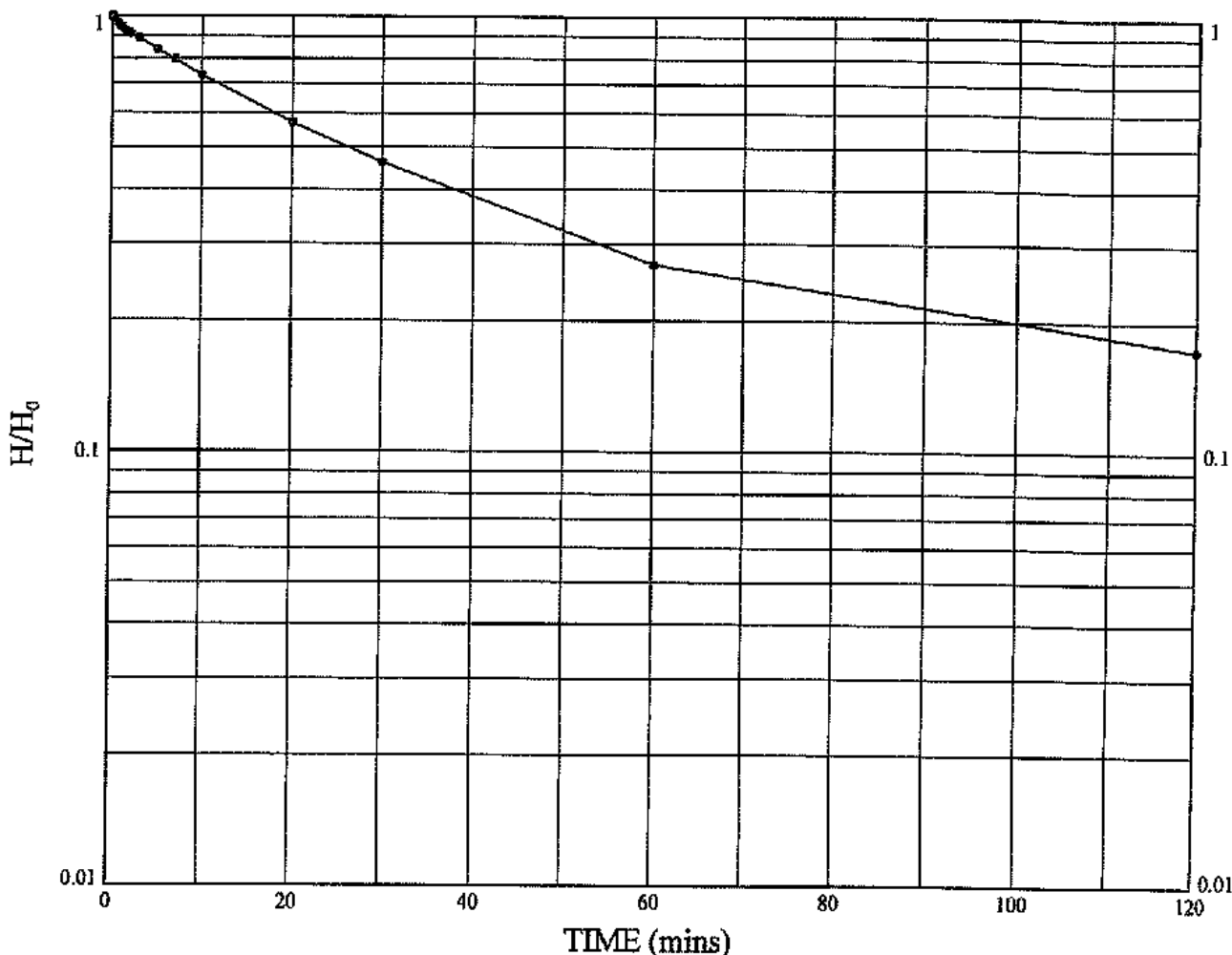
Test Date: **25/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **1.83**

National Grid Co-ordinates: **E:647460.9 N:264099.3**

PLOT OF H/H₀ AGAINST TIME



Cross Sectional Area, A = **0.00196** m²

Intake Factor, F = **11.47** m

Basic Time Lag, T (from plot) = **2539** sec

In-situ Permeability, $k = \frac{A}{F \times T}$ = **6.74x10⁻⁸** m/sec

Notes: Intake Factor equation D from Fig 6 BS5930:1999 section 25.4.6 has been used to calculate permeability. To enable calculation of permeability a measured standing water level of 0.94m prior to the test was used to determine head, H. Permeability has been calculated using the Graphical method in accordance with BS5930:1999 25.4.6.1 b.

Sheet 2 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	24/03/09	[REDACTED]	24/7/09
Contract: Sizewell C Supplementary Investigation		Job No: 722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH13**

Depth (m below GL): **8.50-9.50**

Test Number: **1**

Test Date: **25/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **1.31**

National Grid Co-ordinates: **E:647315.9 N:264128.2**

TEST SETUP DETAILS

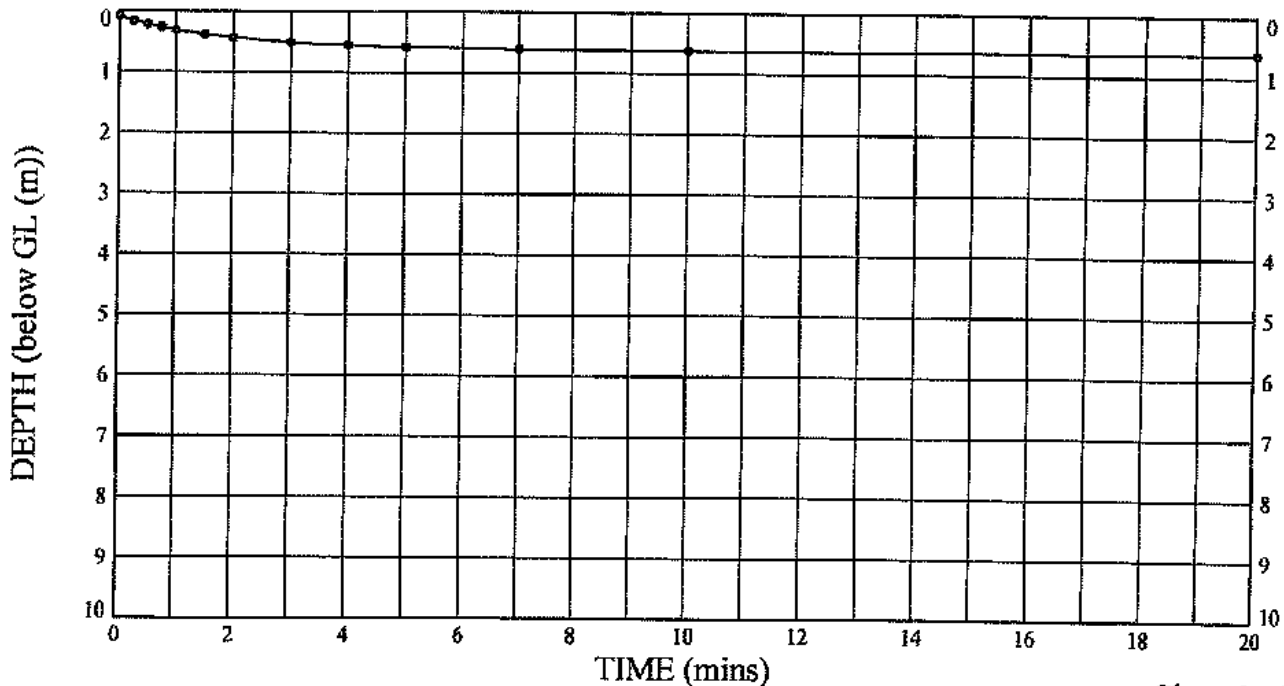
Depth measurements recorded from ground level.

Depth to top of response zone:	8.50 m	Type of piezometer:	Casagrande piezo
Depth to base of response zone:	9.50 m	Slotted pipe section:	- m
Length of response zone:	1.00 m	Type of piezometer fill:	Gravel
Initial groundwater level prior to test:	0.62 m	Weather:	Fine
Borehole diameter:	150 mm		
Monitoring well diameter:	19 mm		

TEST MEASUREMENTS

Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho
00:00:00	0.08	0.54	1.00	00:07:00	0.60	0.02	0.04				
00:00:15	0.16	0.46	0.85	00:10:00	0.62	0.00	0.00				
00:00:30	0.21	0.41	0.76	00:20:00	0.62	0.00	0.00				
00:00:45	0.26	0.36	0.67								
00:01:00	0.31	0.31	0.57								
00:01:30	0.38	0.24	0.44								
00:02:00	0.43	0.19	0.35								
00:03:00	0.51	0.11	0.20								
00:04:00	0.55	0.07	0.13								
00:05:00	0.58	0.04	0.07								

PLOT OF WATER DEPTH AGAINST TIME



Sheet 1 of 2



STRUCTURAL SOILS
 The Old School
 Stillhouse Lane
 Bedminster
 Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	24/03/09	[REDACTED]	24/3/9
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	

IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH13**

Depth (m below GL): **8.50-9.50**

Test Number: **1**

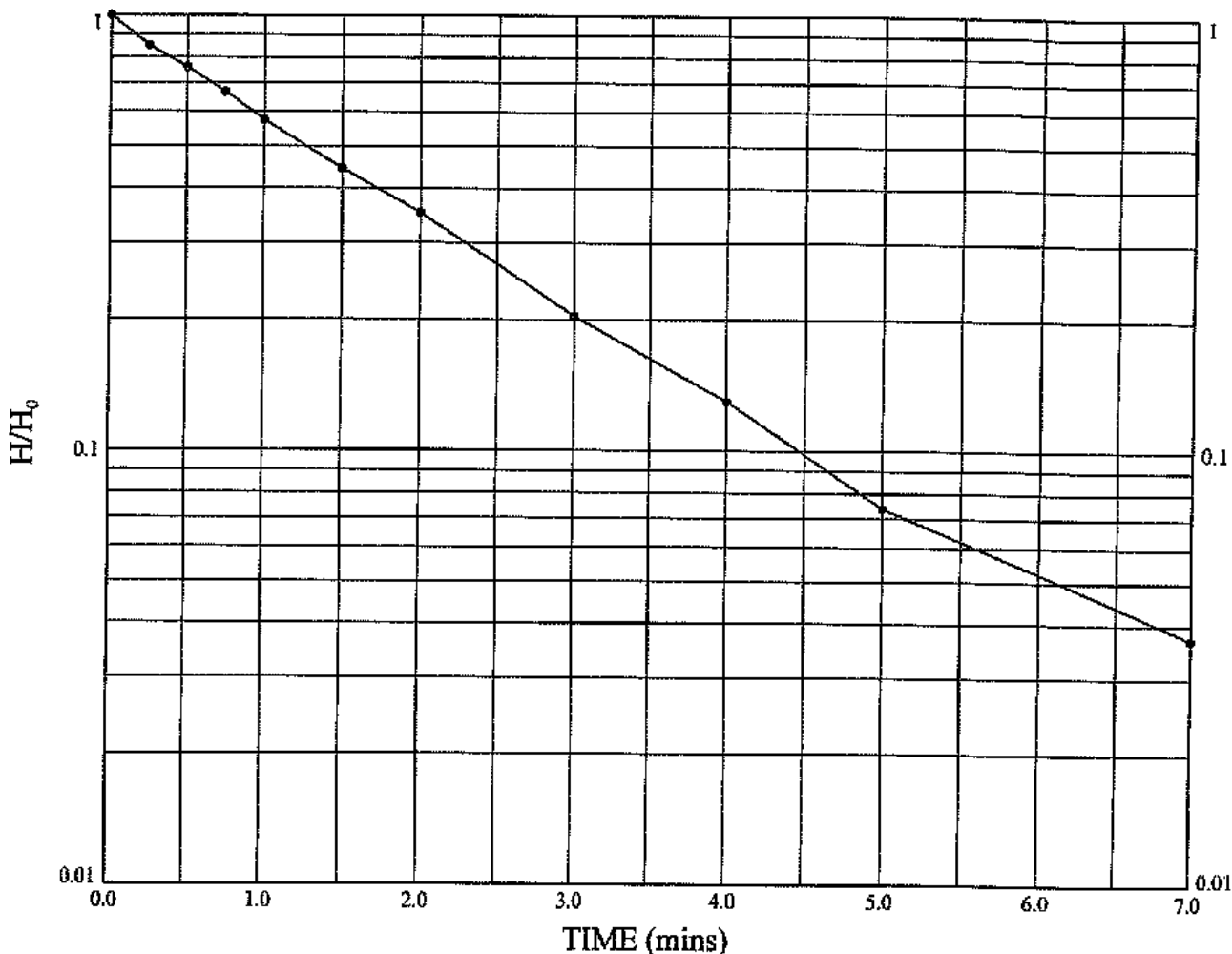
Test Date: **25/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **1.31**

National Grid Co-ordinates: **E:647315.9 N:264128.2**

PLOT OF H/H₀ AGAINST TIME



Cross Sectional Area, A = **0.00028** m²

Intake Factor, F/D = **18.22** m

Basic Time Lag, T (from plot) = **114** sec

In-situ Permeability, $k = \frac{A}{F \times T}$ = **1.37x10⁻⁴** m/sec

Notes : Intake Factor equation from Fig 7 BS5930:1999 section 25.4.6 has been used to calculate permeability. To enable calculation of permeability a measured standing water level of 0.62m prior to the test was used to determine head, H. Permeability has been calculated using the Graphical method in accordance with BS5930:1999 25.4.6.1 b.

Sheet 2 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	24/03/09	[REDACTED]	24/3/9
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	

IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH13**

Depth (m below GL): **8.50-9.50**

Test Number: **2**

Test Date: **25/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **1.31**

National Grid Co-ordinates: **E:647315.9 N:264128.2**

TEST SETUP DETAILS

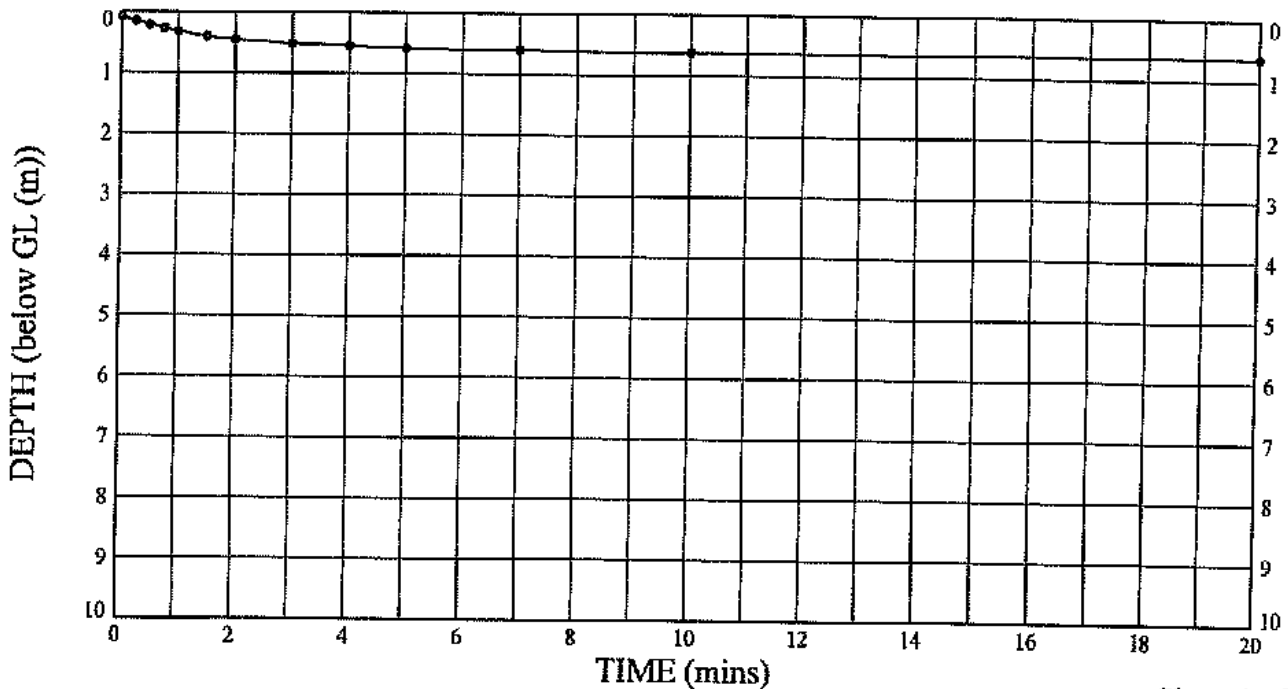
Depth measurements recorded from ground level.

Depth to top of response zone:	8.50 m	Type of piezometer:	Casagrande piezo
Depth to base of response zone:	9.50 m	Slotted pipe section:	- m
Length of response zone:	1.00 m	Type of piezometer fill:	Gravel
Initial groundwater level prior to test:	0.62 m	Weather:	Fine
Borehole diameter:	150 mm		
Monitoring well diameter:	19 mm		

TEST MEASUREMENTS

Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho
00:00:00	0.08	0.54	1.00	00:07:00	0.60	0.02	0.04				
00:00:15	0.15	0.47	0.87	00:10:00	0.62	0.00	0.00				
00:00:30	0.21	0.41	0.76	00:20:00	0.62	0.00	0.00				
00:00:45	0.27	0.36	0.65								
00:01:00	0.32	0.30	0.56								
00:01:30	0.40	0.22	0.41								
00:02:00	0.45	0.17	0.32								
00:03:00	0.51	0.11	0.20								
00:04:00	0.54	0.08	0.15								
00:05:00	0.58	0.04	0.07								

PLOT OF WATER DEPTH AGAINST TIME



Sheet 1 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	24/03/09	[REDACTED]	29/3/9
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH13**

Depth (m below GL): **8.50-9.50**

Test Number: **2**

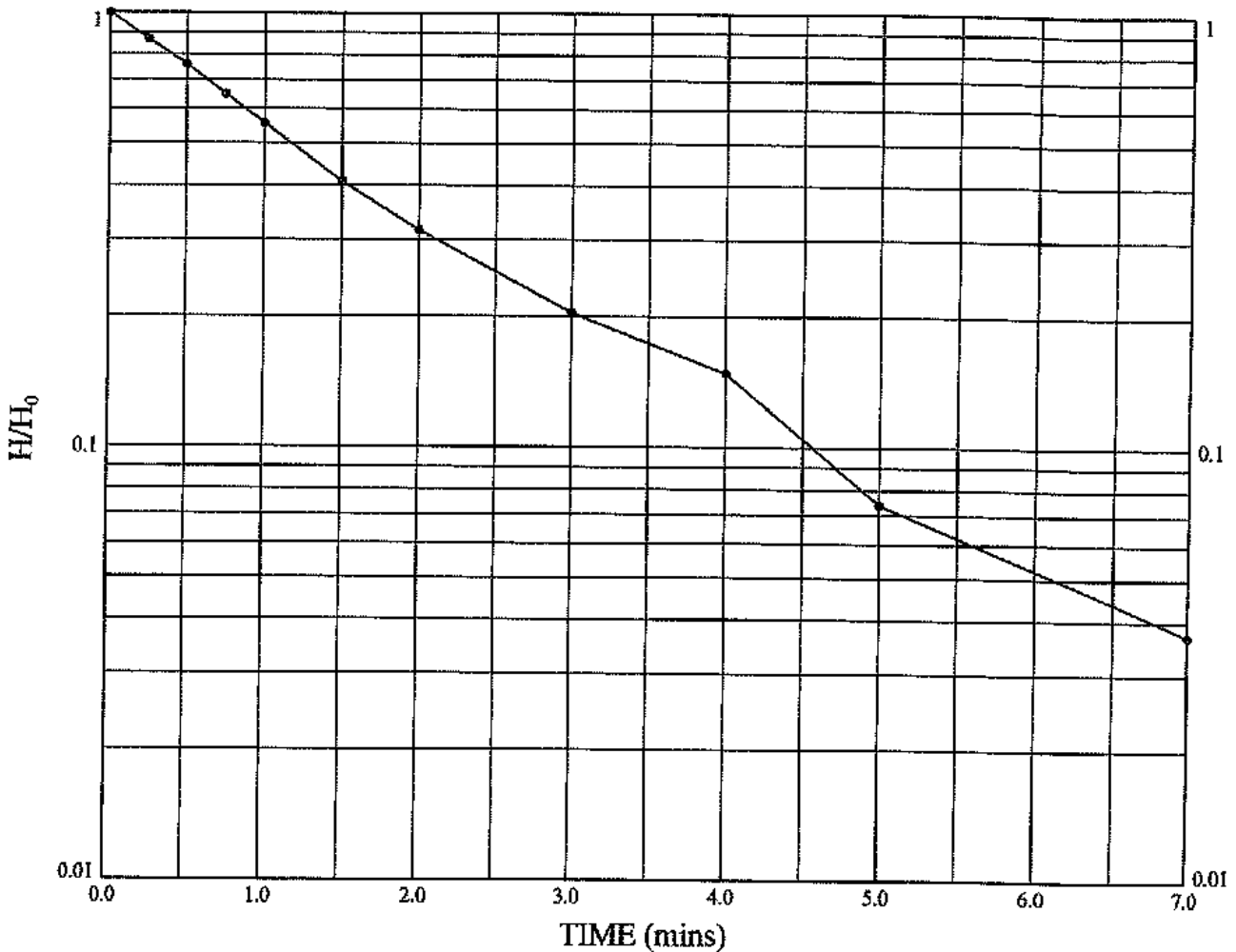
Test Date: **25/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **1.31**

National Grid Co-ordinates: **E:647315.9 N:264128.2**

PLOT OF H/H₀ AGAINST TIME



Cross Sectional Area, A = **0.00028** m²

Intake Factor, F/D = **18.22** m

Basic Time Lag, T (from plot) = **101** sec

In-situ Permeability, $k = \frac{A}{F \times T}$ = **1.54×10^{-4}** m/sec

Notes: Intake Factor equation from Fig 7 BS5930:1999 section 25.4.6 has been used to calculate permeability. To enable calculation of permeability a measured standing water level of 0.62m prior to the test was used to determine head, H. Permeability has been calculated using the Graphical method in accordance with BS5930:1999 25.4.6.1 b.

Sheet 2 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	24/03/09	[REDACTED]	24/3/09
Contract: Sizewell C Supplementary Investigation		Job No: 722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH14**

Depth (m below GL): **8.00-9.00**

Test Number: **1**

Test Date: **26/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **1.56**

National Grid Co-ordinates: **E:647214.9 N:264133.5**

TEST SETUP DETAILS

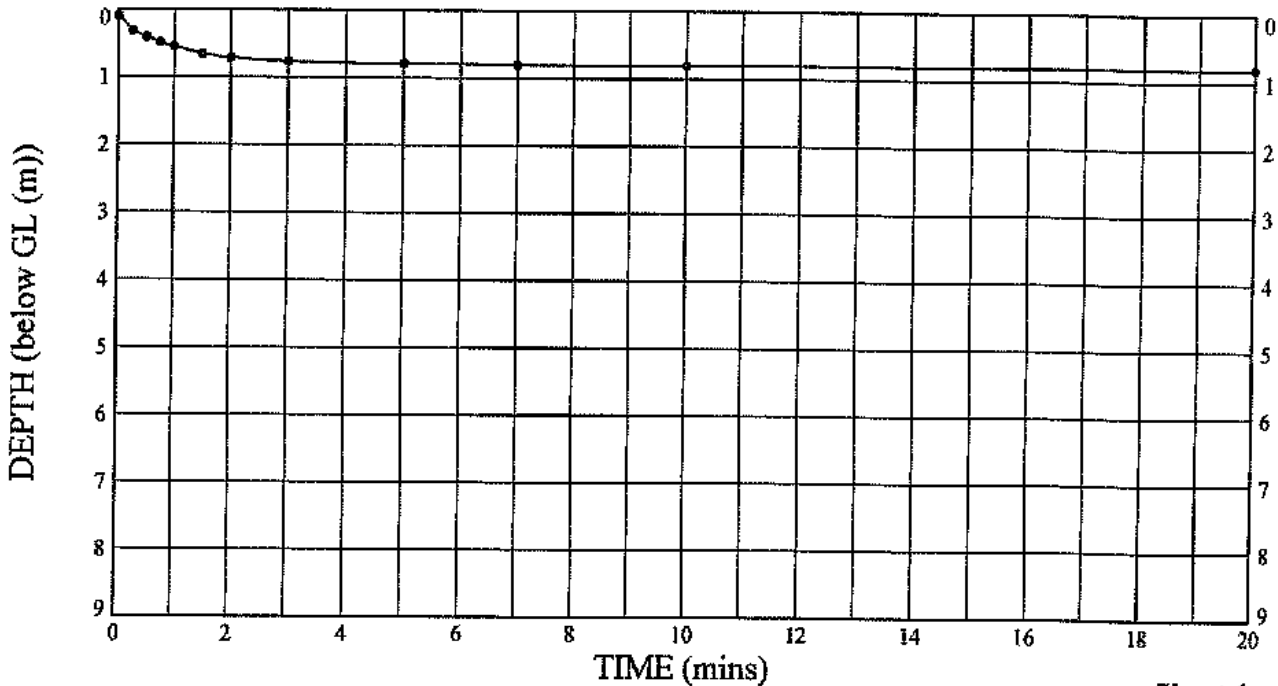
Depth measurements recorded from ground level.

Depth to top of response zone:	8.00 m	Type of piezometer:	Casagrande piezo
Depth to base of response zone:	9.00 m	Slotted pipe section:	- m
Length of response zone:	1.00 m	Type of piezometer fill:	Gravel
Initial groundwater level prior to test:	0.80 m	Weather:	Rain
Borehole diameter:	150 mm		
Monitoring well diameter:	19 mm		

TEST MEASUREMENTS

Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho
00:00:00	0.09	0.71	1.00	00:10:00	0.80	0.00	0.00				
00:00:15	0.31	0.49	0.69	00:20:00	0.80	0.00	0.00				
00:00:30	0.40	0.40	0.56								
00:00:45	0.48	0.32	0.45								
00:01:00	0.54	0.26	0.37								
00:01:30	0.65	0.15	0.21								
00:02:00	0.71	0.09	0.13								
00:03:00	0.76	0.04	0.06								
00:05:00	0.79	0.01	0.01								
00:07:00	0.80	0.00	0.00								

PLOT OF WATER DEPTH AGAINST TIME



Sheet 1 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	24/03/09	[REDACTED]	24/3/09
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH14**

Depth (m below GL): **8.00-9.00**

Test Number: **1**

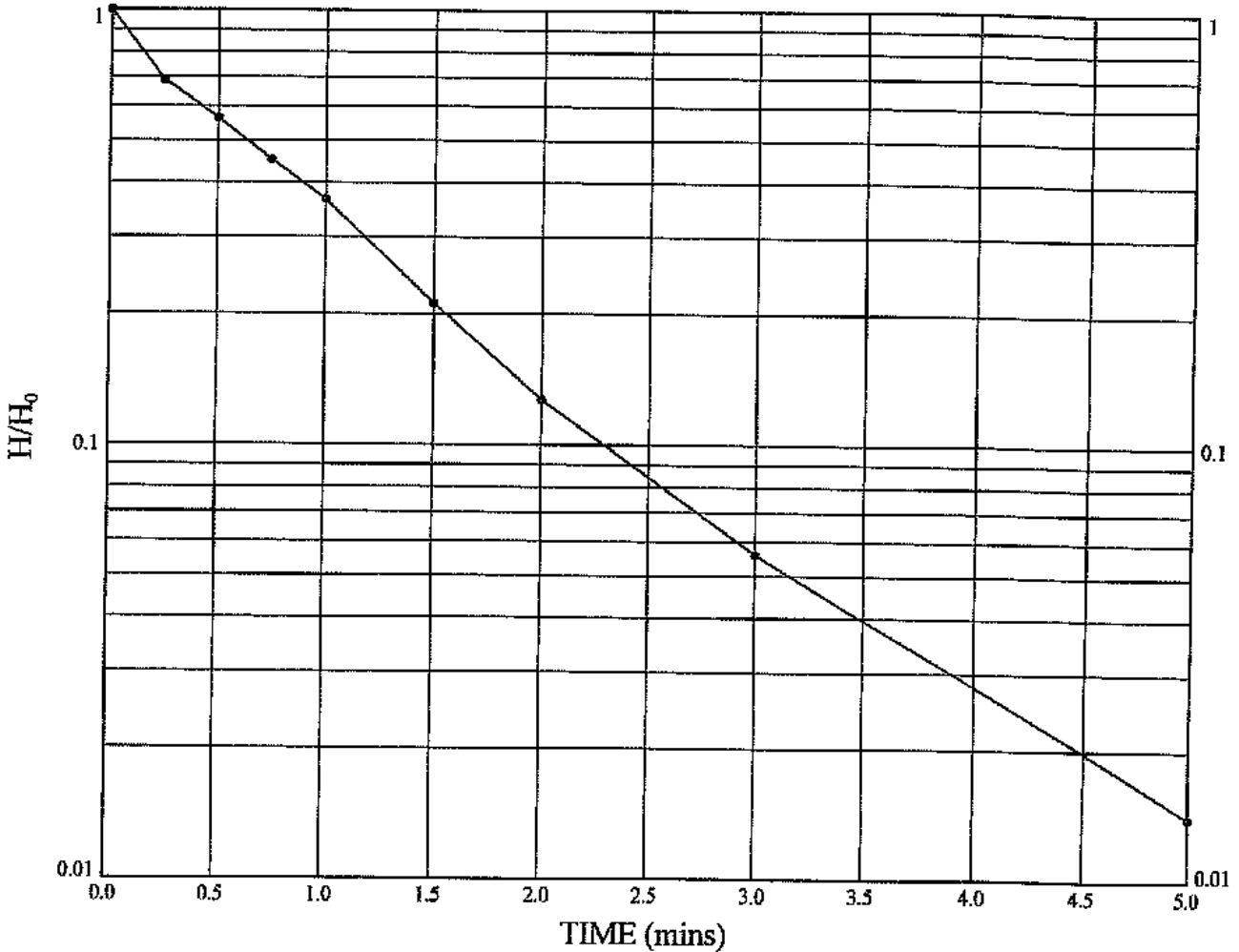
Test Date: **26/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **1.56**

National Grid Co-ordinates: **E:647214.9 N:264133.5**

PLOT OF H/H₀ AGAINST TIME



Cross Sectional Area, A = **0.00028** m²

Intake Factor, F/D = **18.22** m

Basic Time Lag, T (from plot) = **59** sec

In-situ Permeability, $k = \frac{A}{F \times T}$ = **2.64x10⁻⁴** m/sec

Notes : Intake Factor equation from Fig 7 BS5930:1999 section 25.4.6 has been used to calculate permeability. To enable calculation of permeability a measured standing water level of 0.8m prior to the test was used to determine head, H. Permeability has been calculated using the Graphical method in accordance with BS5930:1999 25.4.6.1 b.

Sheet 2 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	24/03/09	[REDACTED]	24/3/09
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	



STRUCTURAL_SOILS_GINT_LIBRARY.GLB1 - PERM - 2 OF 2 - WELL - FALL OR RISE | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 24/03/09 - 14.45.

IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH14**

Depth (m below GL): **8.00-9.00**

Test Number: **2**

Test Date: **26/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **1.56**

National Grid Co-ordinates: **E:647214.9 N:264133.5**

TEST SETUP DETAILS

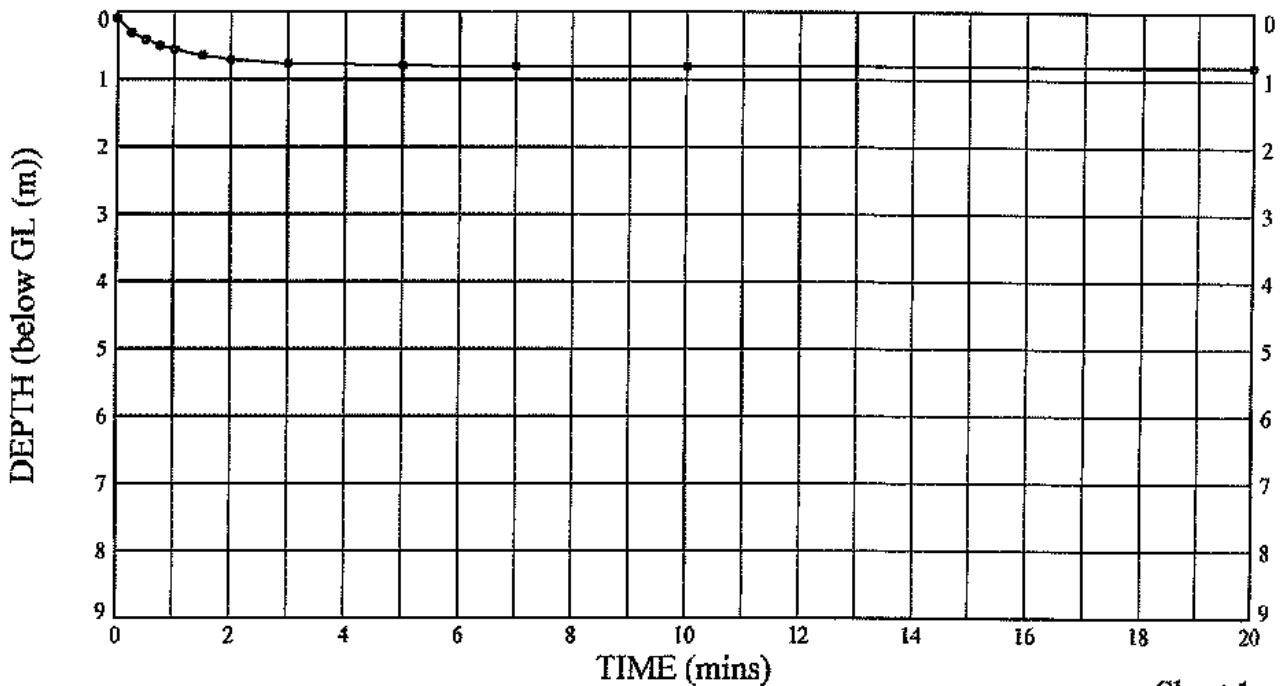
Depth measurements recorded from ground level.

Depth to top of response zone:	8.00 m	Type of piezometer:	Casagrande piezo
Depth to base of response zone:	9.00 m	Slotted pipe section:	- m
Length of response zone:	1.00 m	Type of piezometer fill:	Gravel
Initial groundwater level prior to test:	0.80 m	Weather:	Rain
Borehole diameter:	150 mm		
Monitoring well diameter:	19 mm		

TEST MEASUREMENTS

Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho
00:00:00	0.09	0.71	1.00	00:10:00	0.80	0.00	0.00				
00:00:15	0.31	0.49	0.69	00:20:00	0.80	0.00	0.00				
00:00:30	0.41	0.39	0.55								
00:00:45	0.50	0.30	0.42								
00:01:00	0.56	0.24	0.34								
00:01:30	0.64	0.16	0.23								
00:02:00	0.71	0.09	0.13								
00:03:00	0.76	0.04	0.06								
00:05:00	0.79	0.01	0.01								
00:07:00	0.80	0.00	0.00								

PLOT OF WATER DEPTH AGAINST TIME



Sheet 1 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
█	24/03/09	█	24/3/9
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH14**

Depth (m below GL): **8.00-9.00**

Test Number: **2**

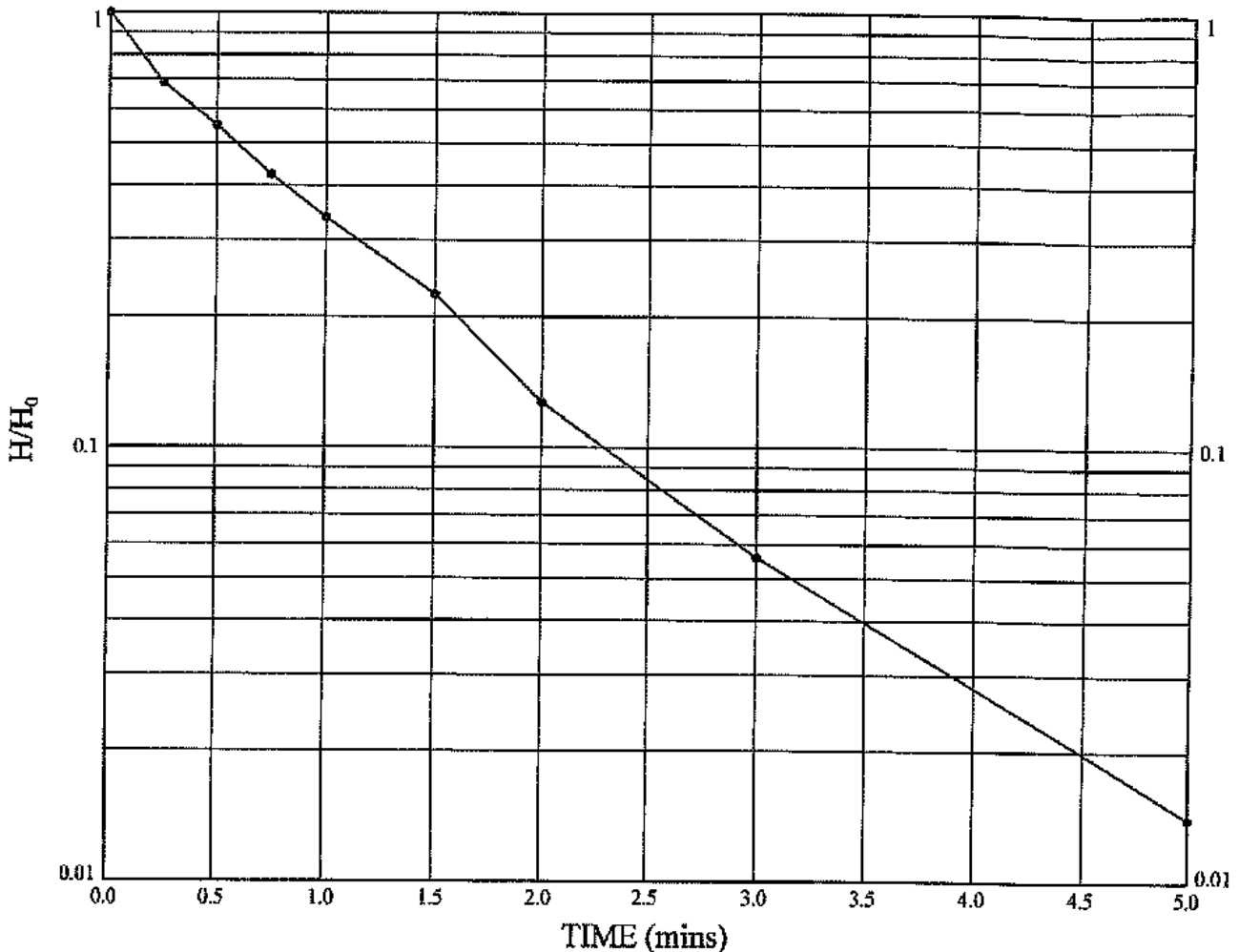
Test Date: **26/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **1.56**

National Grid Co-ordinates: **E:647214.9 N:264133.5**

PLOT OF H/H₀ AGAINST TIME



Cross Sectional Area, A = **0.00028** m²

Intake Factor, F/D = **18.22** m

Basic Time Lag, T (from plot) = **54** sec

In-situ Permeability, $k = \frac{A}{F \times T}$ = **2.88x10⁻⁴** m/sec

Notes : Intake Factor equation from Fig 7 BS5930:1999 section 25.4.6 has been used to calculate permeability. To enable calculation of permeability a measured standing water level of 0.8m prior to the test was used to determine head, H. Permeability has been calculated using the Graphical method in accordance with BS5930:1999 25.4.6.1 b.

Sheet 2 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
██████████	24/03/09	██████████	24/3/9
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH15**

Depth (m below GL): **3.60-4.60**

Test Number: **1**

Test Date: **25/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **2.03**

National Grid Co-ordinates: **E:647475.3 N:264069.0**

TEST SETUP DETAILS

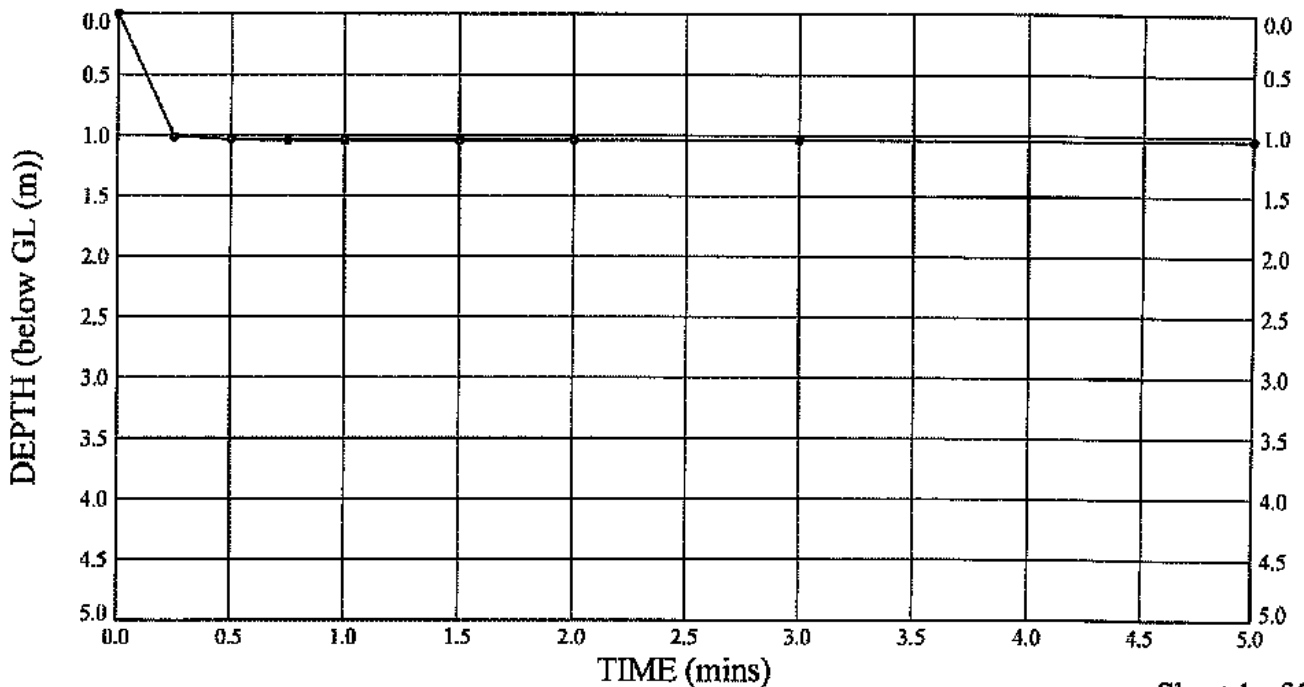
Depth measurements recorded from ground level.

Depth to top of response zone:	3.60 m	Type of piezometer:	Casagrande piezo
Depth to base of response zone:	4.60 m	Slotted pipe section:	- m
Length of response zone:	1.00 m	Type of piezometer fill:	Gravel
Initial groundwater level prior to test:	1.04 m	Weather:	Rain
Borehole diameter:	200 mm		
Monitoring well diameter:	19 mm		

TEST MEASUREMENTS

Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho
00:00:00	0.00	1.04	1.00				
00:00:15	1.01	0.09	0.09				
00:00:30	1.03	0.01	0.01				
00:00:45	1.04	0.00	0.00				
00:01:00	1.04	0.00	0.00				
00:01:30	1.04	0.00	0.00				
00:02:00	1.04	0.00	0.00				
00:03:00	1.04	0.00	0.00				
00:05:00	1.04	0.00	0.00				

PLOT OF WATER DEPTH AGAINST TIME



Sheet 1 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	[REDACTED]	Date	24/03/09	Checked By	[REDACTED]	Date	24/3/09
Contract:				Job No:			
Sizewell C Supplementary Investigation				722201			



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH15**

Depth (m below GL): **3.60-4.60**

Test Number: **1**

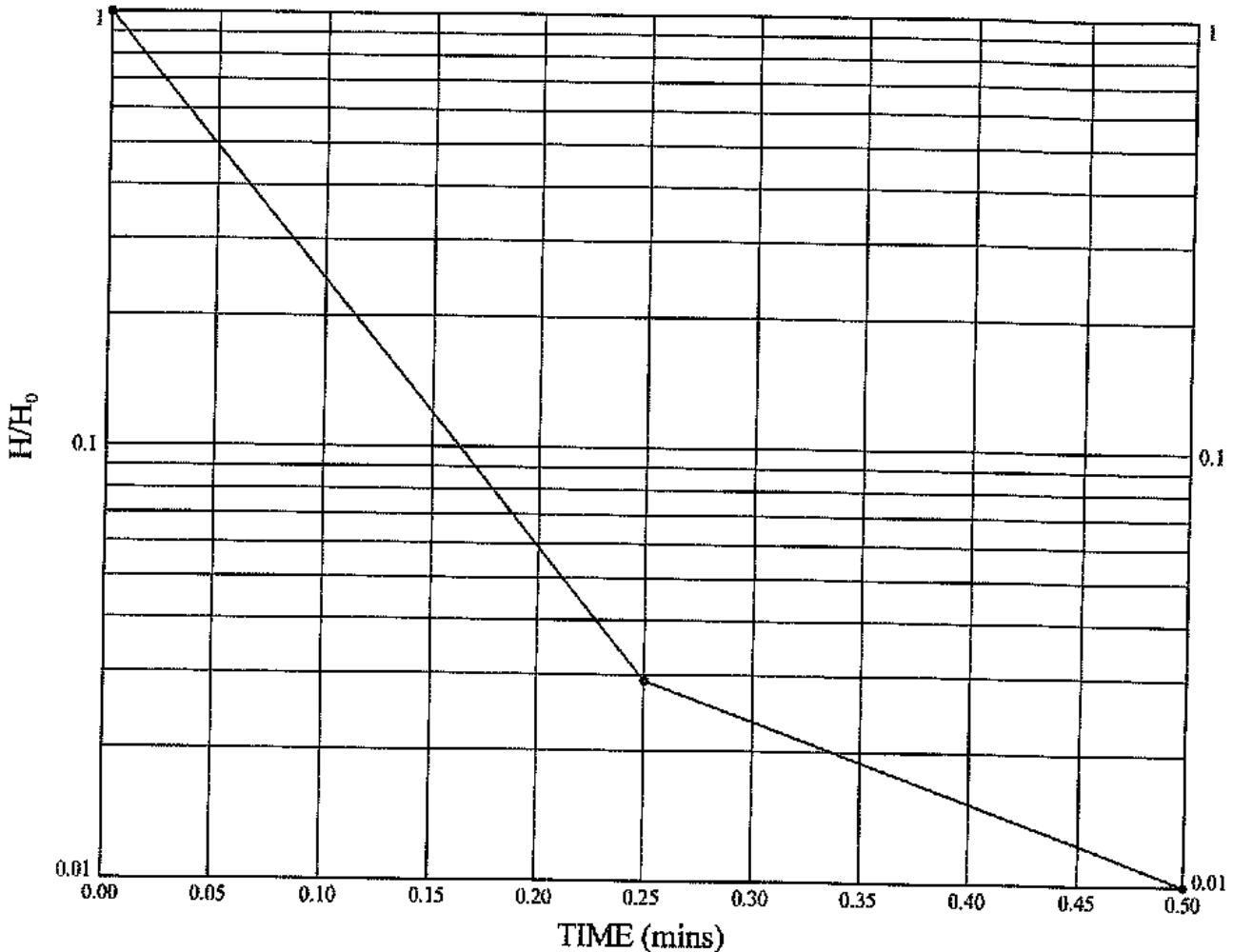
Test Date: **25/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **2.03**

National Grid Co-ordinates: **E:647475.3 N:264069.0**

PLOT OF H/H₀ AGAINST TIME



Cross Sectional Area, A = **0.00028** m²

Intake Factor, F/D = **15.29** m

Basic Time Lag, T (from plot) = **4** sec

In-situ Permeability, $k = \frac{A}{F \times T}$ = **4.64x10⁻³** m/sec

Notes: Intake Factor equation from Fig 7 BS5930:1999 section 25.4.6 has been used to calculate permeability. To enable calculation of permeability a measured standing water level of 1.04m prior to the test was used to determine head, H. Permeability has been calculated using the Graphical method in accordance with BS5930:1999 25.4.6.1 b. A lot of water in monitoring well at start of test.

Sheet 2 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	24/03/09	[Redacted]	24/12/09
Contract: Sizewell C Supplementary Investigation		Job No: 722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH15**

Depth (m below GL): **3.60-4.60**

Test Number: **2**

Test Date: **25/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **2.03**

National Grid Co-ordinates: **E:647475.3 N:264069.0**

TEST SETUP DETAILS

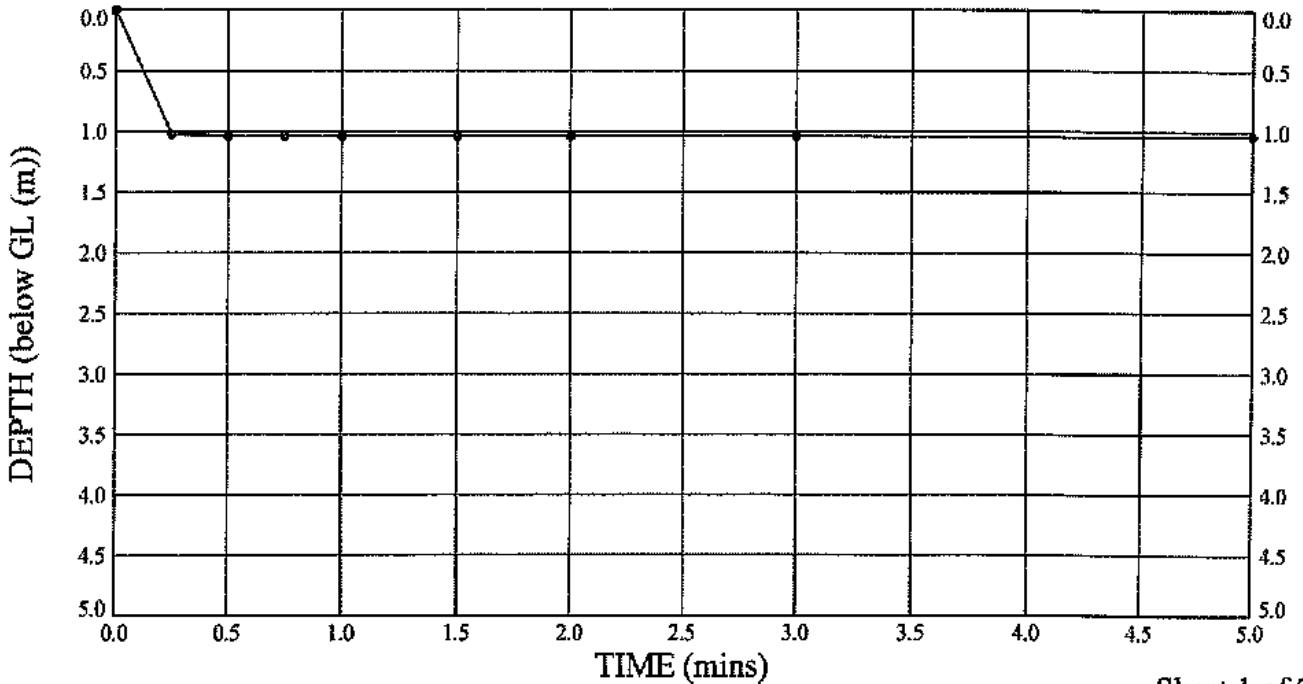
Depth measurements recorded from ground level.

Depth to top of response zone:	3.60 m	Type of piezometer:	Casagrande piezo
Depth to base of response zone:	4.60 m	Slotted pipe section:	- m
Length of response zone:	1.00 m	Type of piezometer fill:	Grael
Initial groundwater level prior to test:	1.04 m	Weather:	Rain
Borehole diameter:	200 mm		
Monitoring well diameter:	19 mm		

TEST MEASUREMENTS

Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho
00:00:00	0.00	1.04	1.00				
00:00:15	1.02	0.02	0.02				
00:00:30	1.04	0.00	0.00				
00:00:45	1.04	0.00	0.00				
00:01:00	1.04	0.00	0.00				
00:01:30	1.04	0.00	0.00				
00:02:00	1.04	0.00	0.00				
00:03:00	1.04	0.00	0.00				
00:05:00	1.04	0.00	0.00				

PLOT OF WATER DEPTH AGAINST TIME



Sheet 1 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	24/03/09	[Redacted]	24/3/9
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH15**

Depth (m below GL): **3.60-4.60**

Test Number: **2**

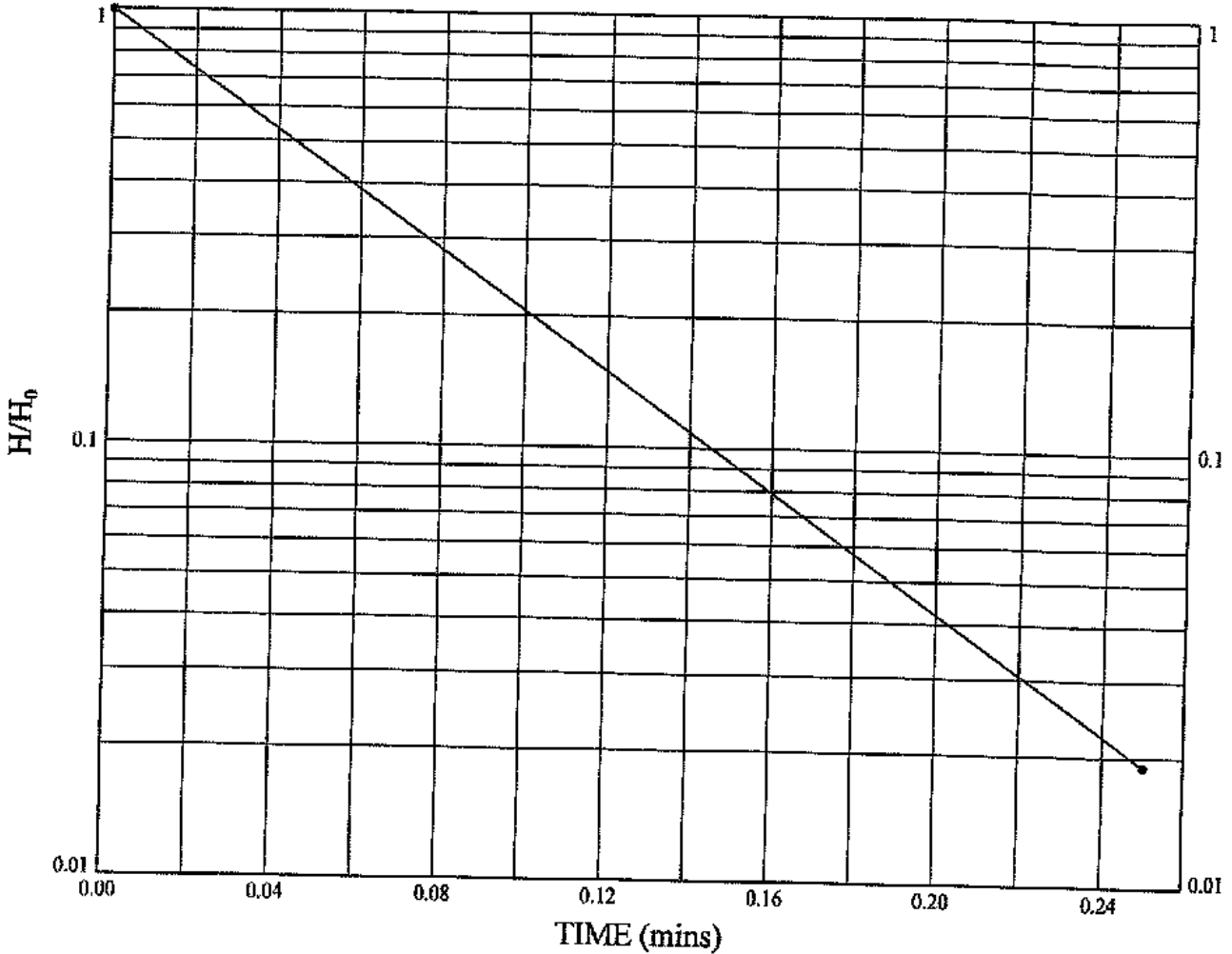
Test Date: **25/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **2.03**

National Grid Co-ordinates: **E:647475.3 N:264069.0**

PLOT OF H/H₀ AGAINST TIME



Cross Sectional Area, A = 0.00028 m²

Intake Factor, F/D = 15.29 m

Basic Time Lag, T (from plot) = 4 sec

In-situ Permeability, $k = \frac{A}{F \times T} = 4.64 \times 10^{-3}$ m/sec

Notes : Intake Factor equation from Fig 7 BS5930:1999 section 25.4.6 has been used to calculate permeability. To enable calculation of permeability a measured standing water level of 1.04m prior to the test was used to determine head, H. Permeability has been calculated using the Graphical method in accordance with BS5930:1999 25.4.6.1 b. A lot of water in monitoring well at start of test.

Sheet 2 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

	Compiled By	Date	Checked By	Date
	[Redacted]	24/03/09	[Redacted]	24/3/9
Contract:		Job No:		
Sizewell C Supplementary Investigation		722201		

IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH23**

Depth (m below GL): **6.40-7.40**

Test Number: **1**

Test Date: **25/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **2.20**

National Grid Co-ordinates: **E:647484.6 N:264046.9**

TEST SETUP DETAILS

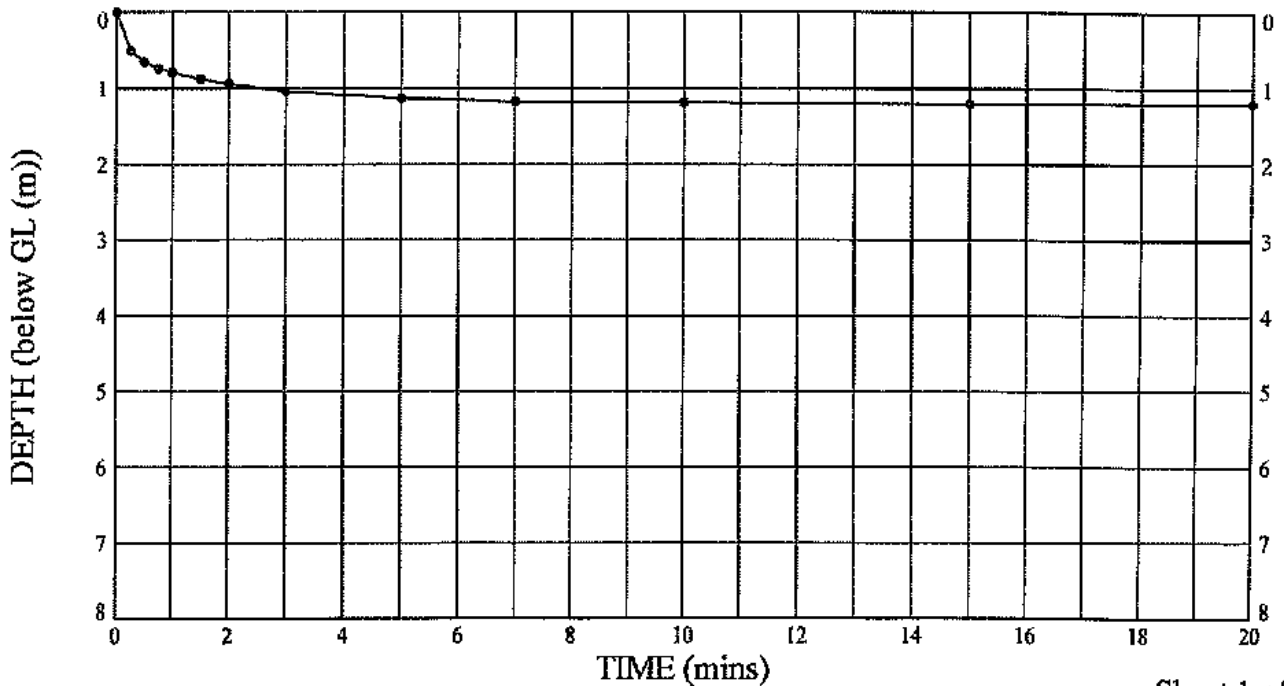
Depth measurements recorded from ground level.

Depth to top of response zone:	6.40 m	Type of piezometer:	Casagrande piezo
Depth to base of response zone:	7.40 m	Slotted pipe section:	- m
Length of response zone:	1.00 m	Type of piezometer fill:	Gravel
Initial groundwater level prior to test:	1.20 m	Weather:	Fine
Borehole diameter:	200 mm		
Monitoring well diameter:	19 mm		

TEST MEASUREMENTS

Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho
00:00:00	0.00	1.20	1.00	00:10:00	1.19	0.01	0.01				
00:00:15	0.51	0.69	0.58	00:15:00	1.20	0.00	0.00				
00:00:30	0.65	0.55	0.46	00:20:00	1.20	0.00	0.00				
00:00:45	0.74	0.46	0.38								
00:01:00	0.79	0.41	0.34								
00:01:30	0.88	0.32	0.27								
00:02:00	0.94	0.26	0.22								
00:03:00	1.04	0.16	0.13								
00:05:00	1.13	0.07	0.06								
00:07:00	1.17	0.03	0.03								

PLOT OF WATER DEPTH AGAINST TIME



Sheet 1 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	24/03/09	[Redacted]	24/3/09
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH23**

Depth (m below GL): **6.40-7.40**

Test Number: **1**

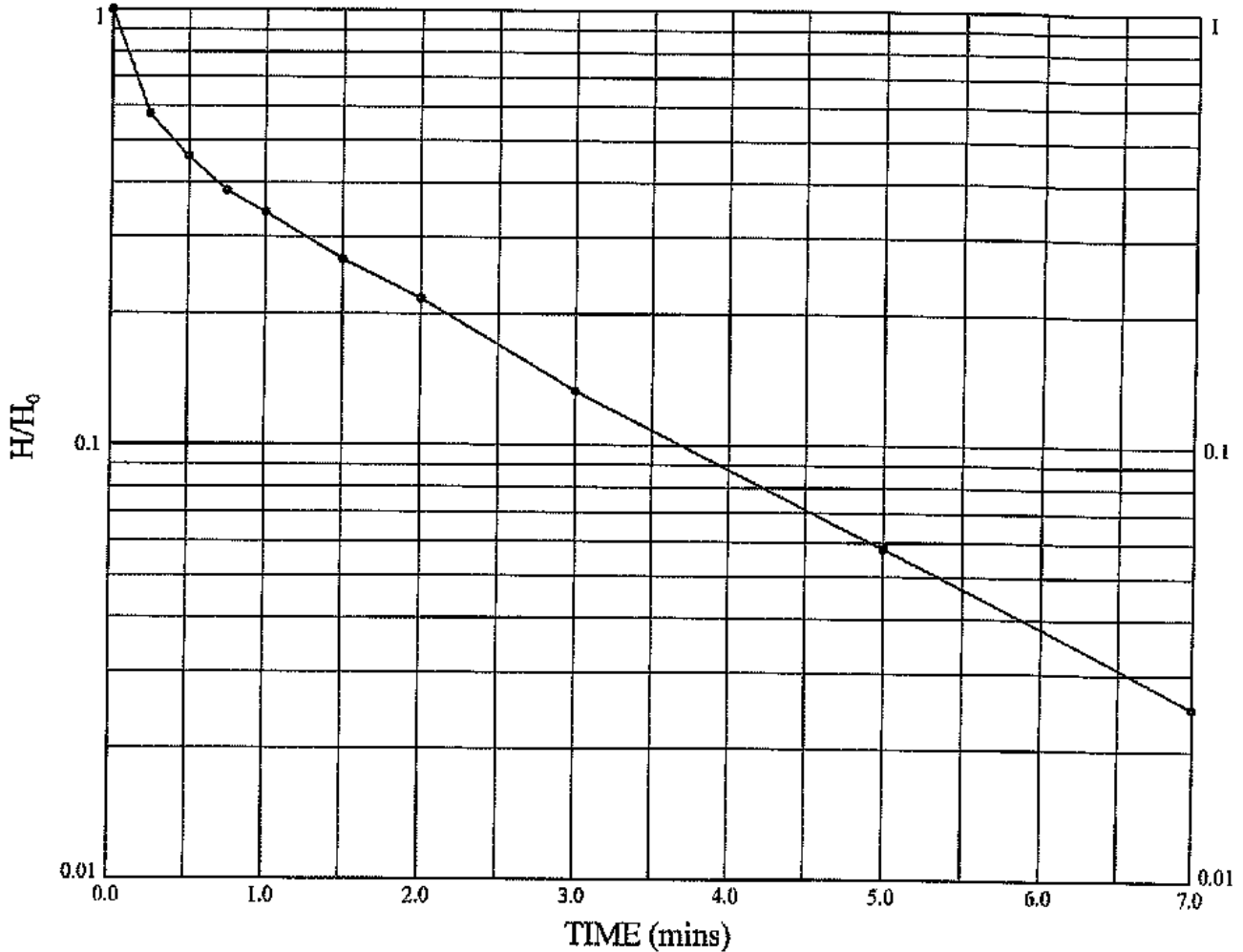
Test Date: **25/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **2.20**

National Grid Co-ordinates: **E:647484.6 N:264046.9**

PLOT OF H/H₀ AGAINST TIME



Cross Sectional Area, A = **0.00028** m²

Intake Factor, F/D = **15.29** m

Basic Time Lag, T (from plot) = **50** sec

In-situ Permeability, $k = \frac{A}{F \times T}$ = **3.71x10⁻⁴** m/sec

Notes : Intake Factor equation from Fig 7 BS5930:1999 section 25.4.6 has been used to calculate permeability. To enable calculation of permeability a measured standing water level of 1.2m prior to the test was used to determine head, H. Permeability has been calculated using the Graphical method in accordance with BS5930:1999 25.4.6.1 b.

Sheet 2 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	[REDACTED]	Date	24/03/09	Checked By	[REDACTED]
Contract:		Job No:			
Sizewell C Supplementary Investigation		722201		24/4/9	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH23**

Depth (m below GL): **6.40-7.40**

Test Number: **2**

Test Date: **25/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **2.20**

National Grid Co-ordinates: **E:647484.6 N:264046.9**

TEST SETUP DETAILS

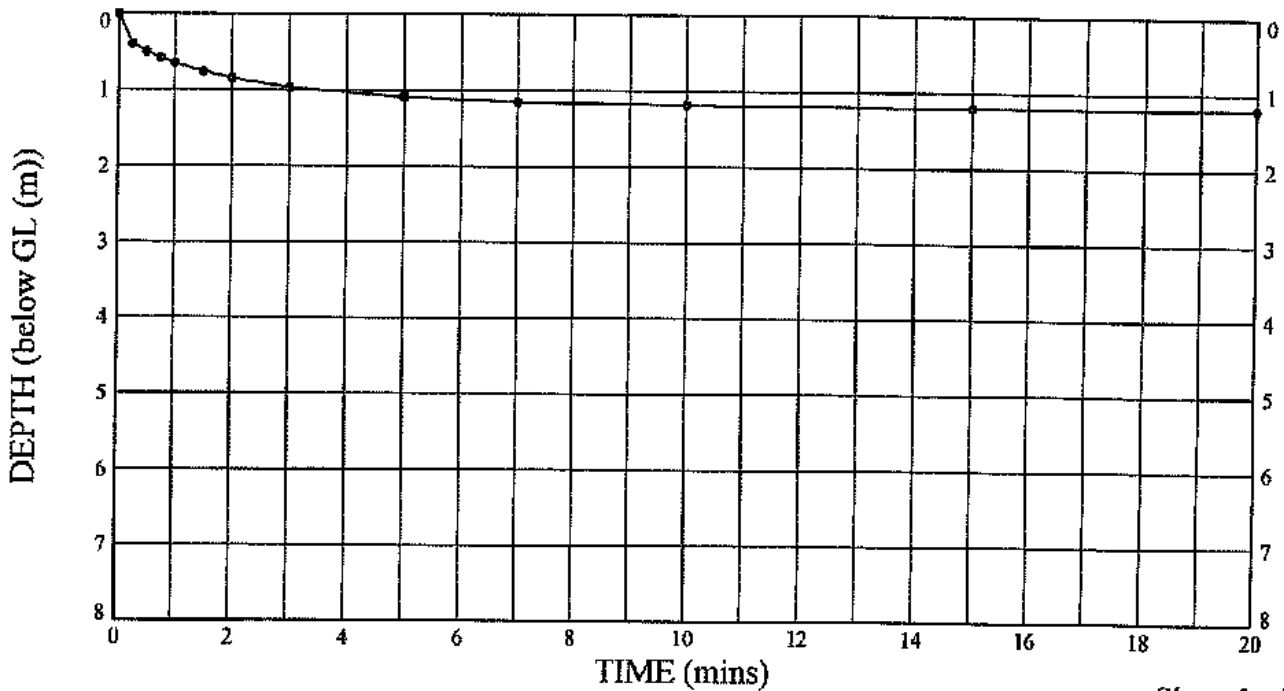
Depth measurements recorded from ground level.

Depth to top of response zone:	6.40 m	Type of piezometer:	Casagrande piezo
Depth to base of response zone:	7.40 m	Slotted pipe section:	- m
Length of response zone:	1.00 m	Type of piezometer fill:	Gravel
Initial groundwater level prior to test:	1.20 m	Weather:	Fine
Borehole diameter:	200 mm		
Monitoring well diameter:	19 mm		

TEST MEASUREMENTS

Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho
00:00:00	0.00	1.20	1.00	00:10:00	1.18	0.02	0.02				
00:00:15	0.40	0.80	0.67	00:15:00	1.20	0.01	0.01				
00:00:30	0.50	0.70	0.58	00:20:00	1.20	0.00	0.00				
00:00:45	0.58	0.62	0.52								
00:01:00	0.65	0.55	0.46								
00:01:30	0.74	0.44	0.37								
00:02:00	0.85	0.35	0.29								
00:03:00	0.97	0.23	0.19								
00:05:00	1.09	0.11	0.09								
00:07:00	1.15	0.05	0.04								

PLOT OF WATER DEPTH AGAINST TIME



Sheet 1 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	24/03/09	[Redacted]	24/3/09
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH23**

Depth (m below GL): **6.40-7.40**

Test Number: **2**

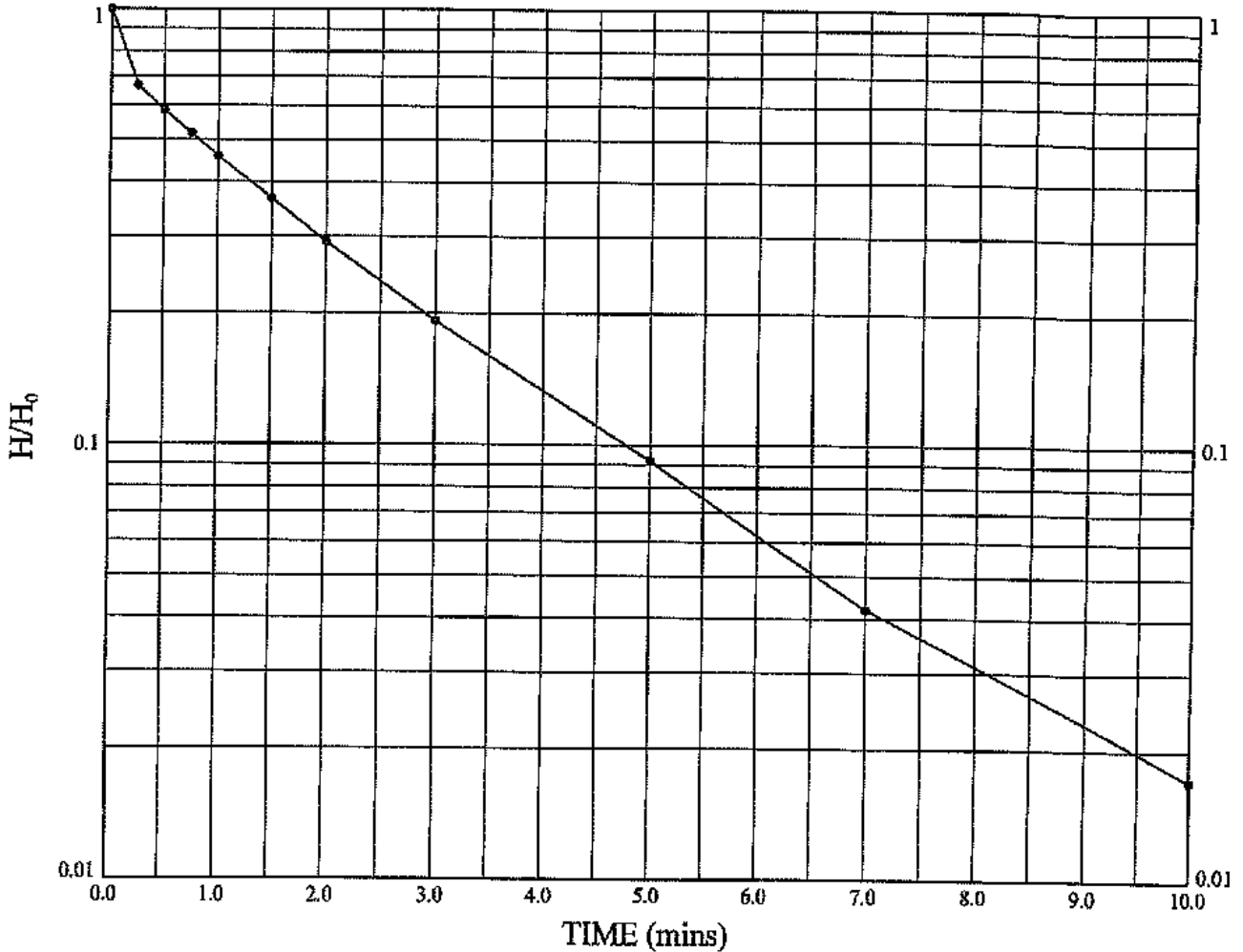
Test Date: **25/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **2.20**

National Grid Co-ordinates: **E:647484.6 N:264046.9**

PLOT OF H/H₀ AGAINST TIME



Cross Sectional Area, A = **0.00028** m²

Intake Factor, F/D = **15.29** m

Basic Time Lag, T (from plot) = **89** sec

In-situ Permeability, $k = \frac{A}{F \times T}$ = **2.08×10^{-4}** m/sec

Notes : Intake Factor equation from Fig 7 BS5930:1999 section 25.4.6 has been used to calculate permeability. To enable calculation of permeability a measured standing water level of 1.2m prior to the test was used to determine head, H. Permeability has been calculated using the Graphical method in accordance with BS5930:1999 25.4.6.1 b.

Sheet 2 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
██████████	24/03/09	██████████	24/3/9
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH36**

Depth (m below GL): **6.50-7.80**

Test Number: **1**

Test Date: **24/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **0.94**

National Grid Co-ordinates: **E:647279.3 N:264380.6**

TEST SETUP DETAILS

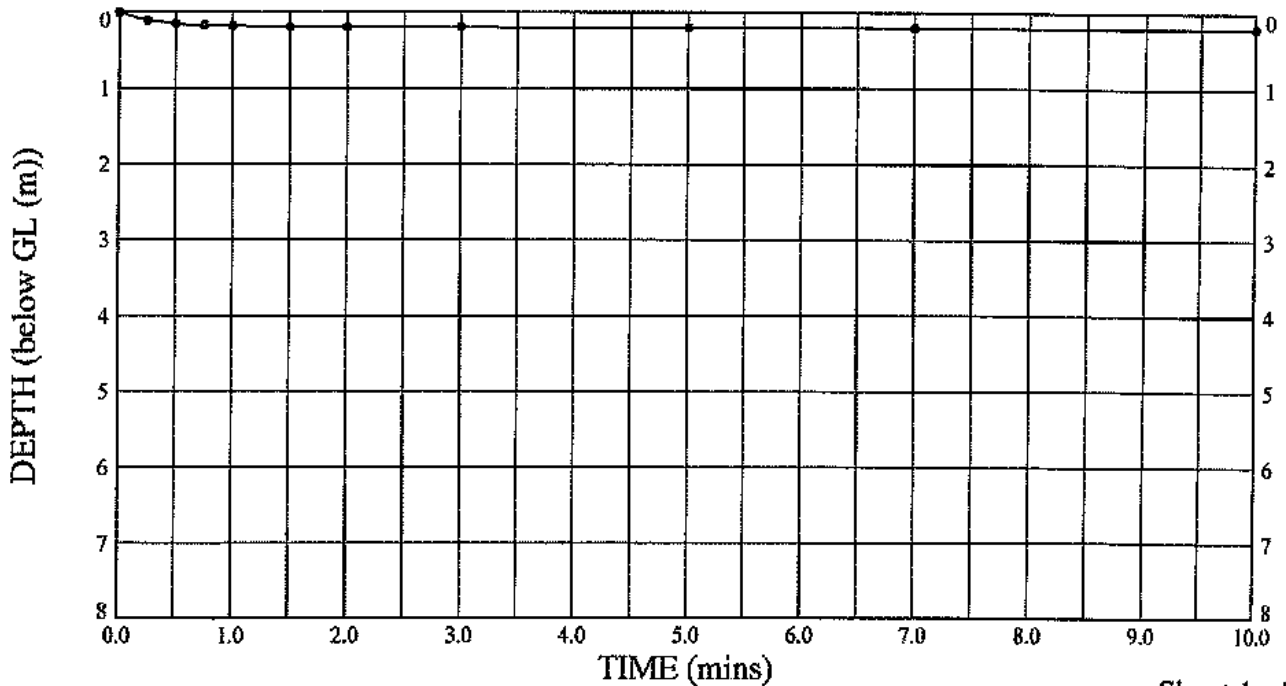
Depth measurements recorded from ground level.

Depth to top of response zone:	6.50 m	Type of piezometer:	Casagrande piezo
Depth to base of response zone:	7.80 m	Slotted pipe section:	- m
Length of response zone:	1.30 m	Type of piezometer fill:	Gravel
Initial groundwater level prior to test:	0.20 m	Weather:	Overcast
Borehole diameter:	200 mm		
Monitoring well diameter:	19 mm		

TEST MEASUREMENTS

Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho
00:00:00	0.00	0.20	1.00	00:10:00	0.20	0.00	0.00
00:00:15	0.11	0.09	0.45				
00:00:30	0.15	0.05	0.25				
00:00:45	0.17	0.03	0.15				
00:01:00	0.18	0.02	0.10				
00:01:30	0.19	0.01	0.05				
00:02:00	0.19	0.01	0.05				
00:03:00	0.19	0.01	0.05				
00:05:00	0.20	0.00	0.00				
00:07:00	0.20	0.00	0.00				

PLOT OF WATER DEPTH AGAINST TIME



Sheet 1 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	24/03/09	[Redacted]	24/3/09
Contract: Sizewell C Supplementary Investigation		Job No: 722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH36**

Depth (m below GL): **6.50-7.80**

Test Number: **1**

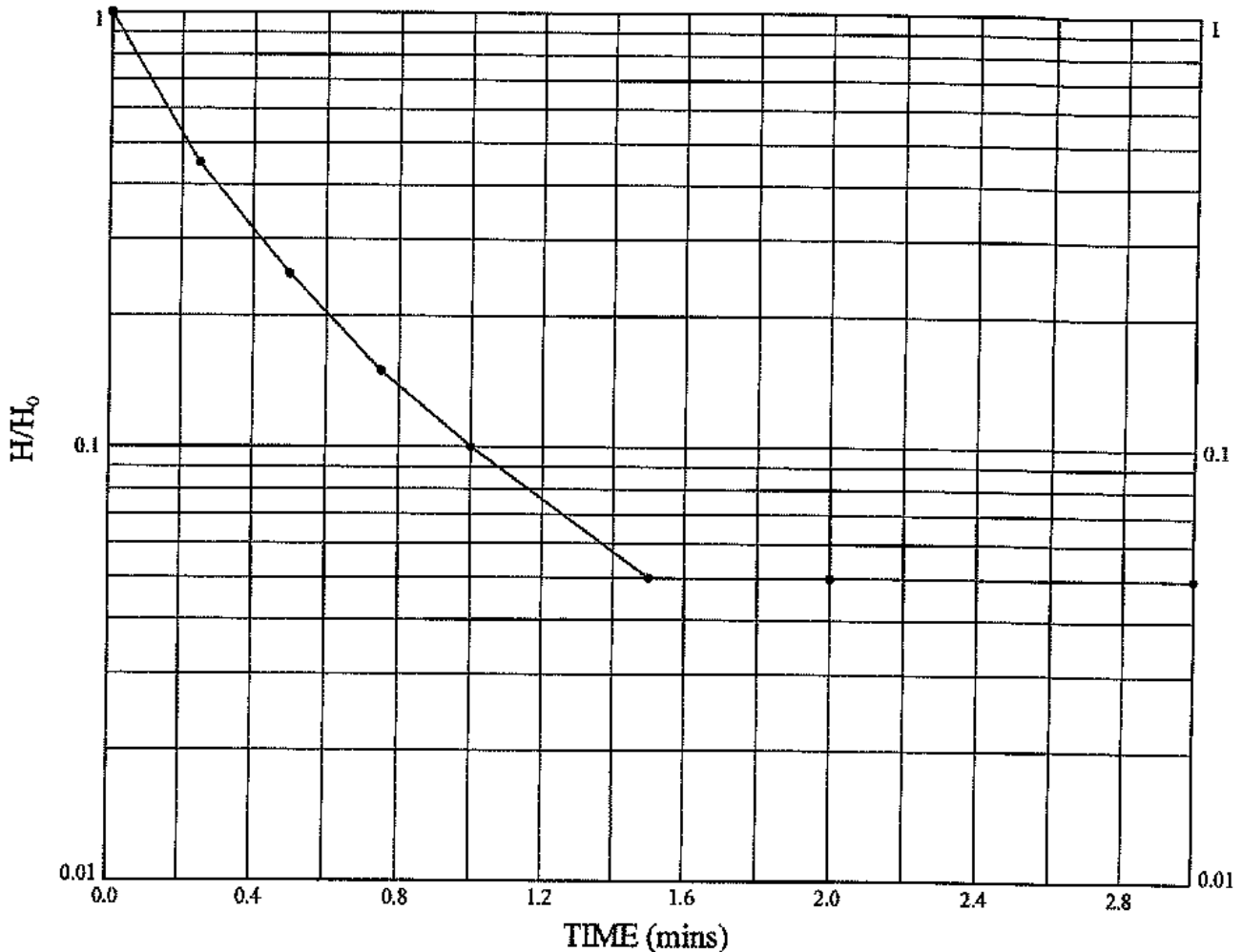
Test Date: **24/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **0.94**

National Grid Co-ordinates: **E:647279.3 N:264380.6**

PLOT OF H/H₀ AGAINST TIME



Cross Sectional Area, A = **0.00028** m²

Intake Factor, F/D = **17.93** m

Basic Time Lag, T (from plot) = **20** sec

In-situ Permeability, $k = \frac{A}{F \times T}$ = **7.91x10⁻⁴** m/sec

Notes : Intake Factor equation from Fig 7 BS5930:1999 section 25.4.6 has been used to calculate permeability. To enable calculation of permeability a measured standing water level of 0.2m prior to the test was used to determine head, H. Permeability has been calculated using the Graphical method in accordance with BS5930:1999 25.4.6.1 b.

Sheet 2 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By		Date	24/03/09	Client ID		Date	24/3/09
Contract:				Job No:			
Sizewell C Supplementary Investigation				722201			



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH36**

Depth (m below GL): **6.50-7.80**

Test Number: **2**

Test Date: **24/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **0.94**

National Grid Co-ordinates: **E:647279.3 N:264380.6**

TEST SETUP DETAILS

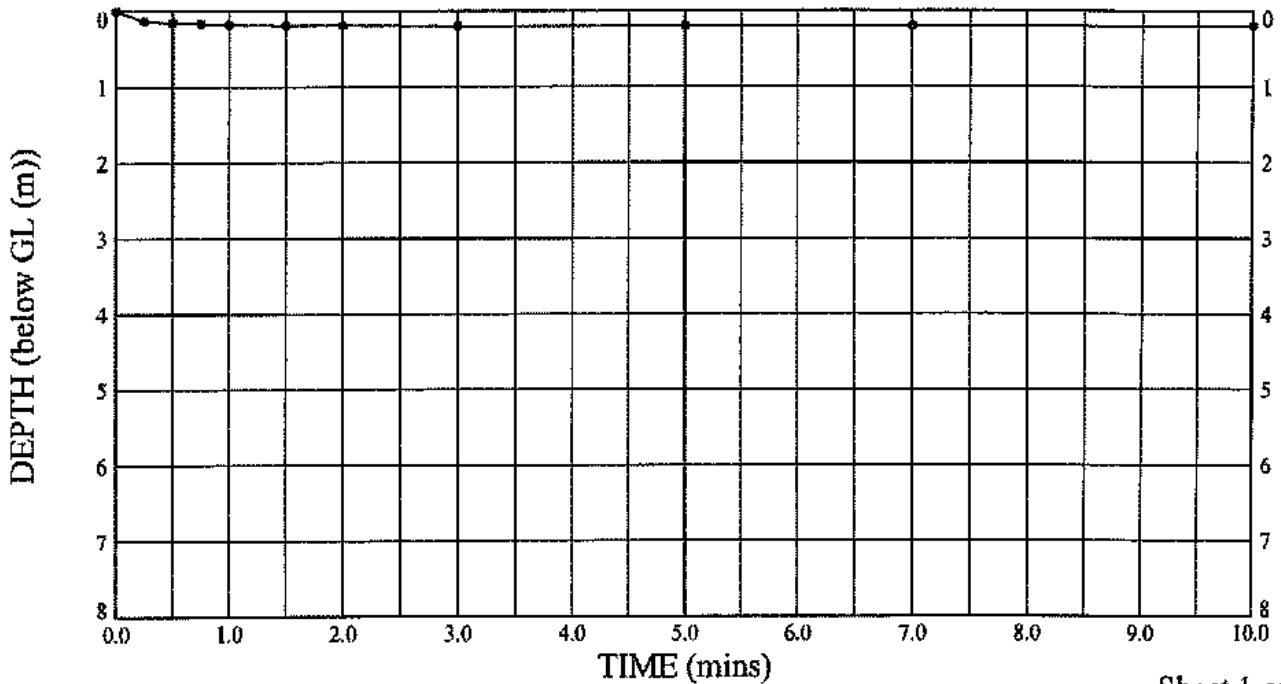
Depth measurements recorded from ground level.

Depth to top of response zone:	6.50 m	Type of piezometer:	Casagrande piezo
Depth to base of response zone:	7.80 m	Slotted pipe section:	- m
Length of response zone:	1.30 m	Type of piezometer fill:	Gravel
Initial groundwater level prior to test:	0.20 m	Weather:	Overcast
Borehole diameter:	200 mm		
Monitoring well diameter:	19 mm		

TEST MEASUREMENTS

Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho
00:00:00	0.00	0.20	1.00	00:10:00	0.20	0.00	0.00				
00:00:15	0.13	0.07	0.35								
00:00:30	0.15	0.05	0.25								
00:00:45	0.17	0.03	0.15								
00:01:00	0.18	0.02	0.10								
00:01:30	0.19	0.01	0.05								
00:02:00	0.19	0.01	0.05								
00:03:00	0.20	0.00	0.00								
00:05:00	0.20	0.00	0.00								
00:07:00	0.20	0.00	0.00								

PLOT OF WATER DEPTH AGAINST TIME



Sheet 1 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	24/03/09	[Redacted]	24/3/09
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH36**

Depth (m below GL): **6.50-7.80**

Test Number: **2**

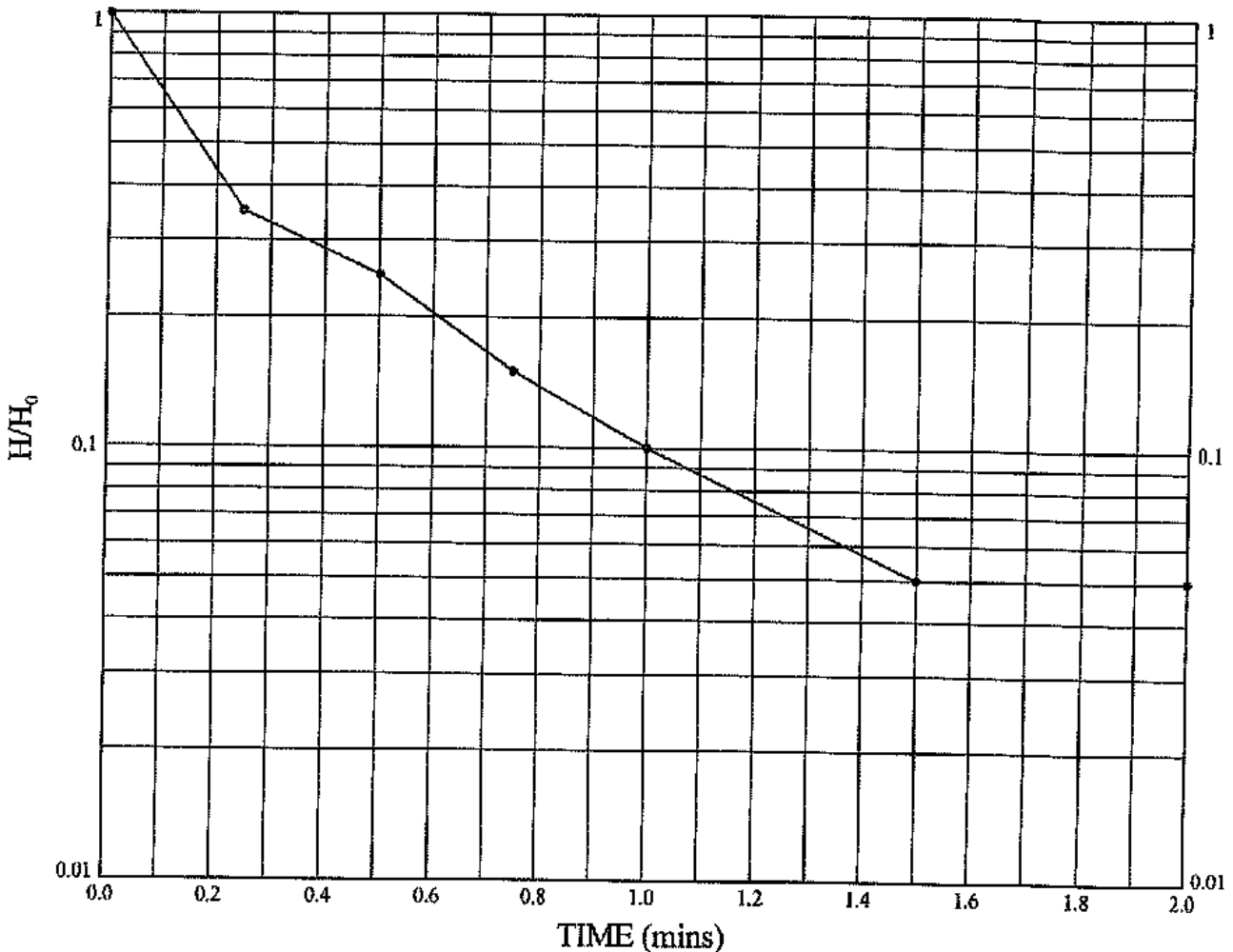
Test Date: **24/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **0.94**

National Grid Co-ordinates: **E:647279.3 N:264380.6**

PLOT OF H/H₀ AGAINST TIME



Cross Sectional Area, A = **0.00028** m²

Intake Factor, F/D = **17.93** m

Basic Time Lag, T (from plot) = **14** sec

In-situ Permeability, $k = \frac{A}{F \times T}$ = **1.13x10⁻³** m/sec

Notes : Intake Factor equation from Fig 7 BS5930:1999 section 25.4.6 has been used to calculate permeability. To enable calculation of permeability a measured standing water level of 0.2m prior to the test was used to determine head, H. Permeability has been calculated using the Graphical method in accordance with BS5930:1999 25.4.6.1 b.

Sheet 2 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	24/03/09	[Redacted]	24/3/9
Contract: Sizewell C Supplementary Investigation		Job No: 722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH37**

Depth (m below GL): **6.00-7.10**

Test Number: **1**

Test Date: **24/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **1.72**

National Grid Co-ordinates: **E:647208.4 N:264296.1**

TEST SETUP DETAILS

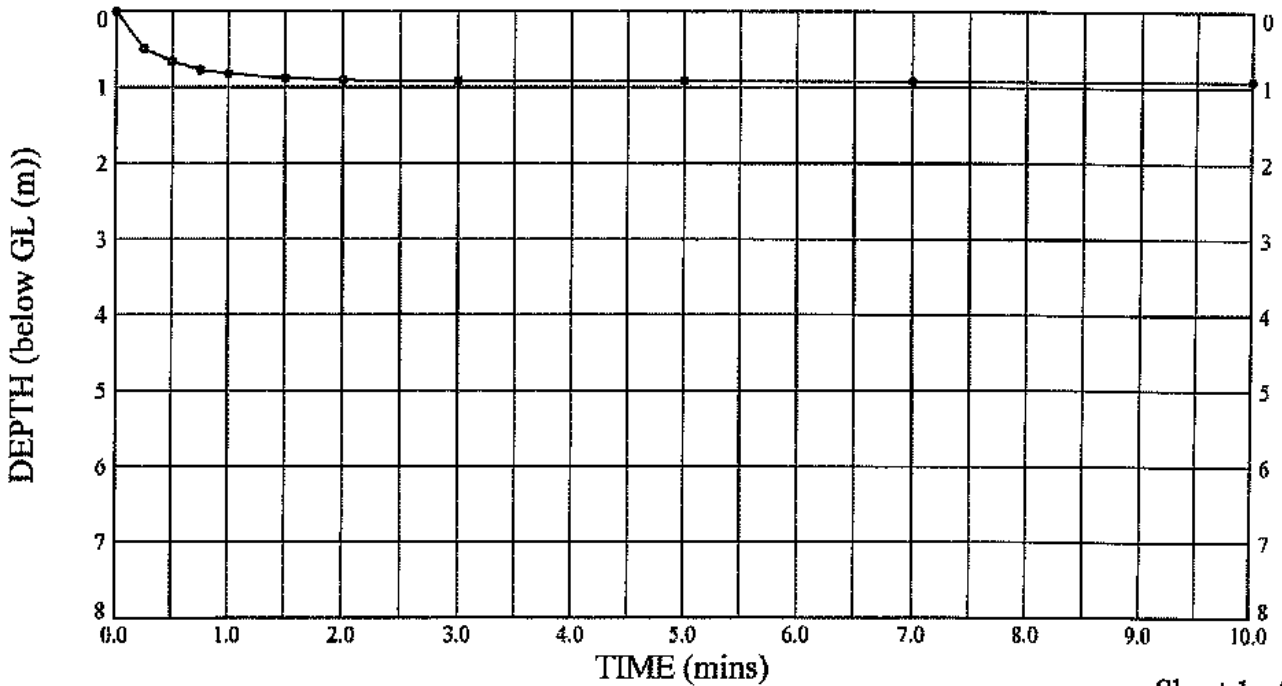
Depth measurements recorded from ground level.

Depth to top of response zone:	6.00 m	Type of piezometer:	Casagrande piezo
Depth to base of response zone:	7.10 m	Slotted pipe section:	- m
Length of response zone:	1.10 m	Type of piezometer fill:	Gravel
Initial groundwater level prior to test:	0.93 m	Weather:	Overcast
Borehole diameter:	200 mm		
Monitoring well diameter:	19 mm		

TEST MEASUREMENTS

Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho
00:00:00	0.00	0.93	1.00	00:15:00	0.92	0.01	0.01				
00:00:15	0.49	0.44	0.47								
00:00:30	0.66	0.27	0.29								
00:00:45	0.77	0.16	0.17								
00:01:00	0.82	0.11	0.12								
00:01:30	0.85	0.05	0.05								
00:02:00	0.90	0.03	0.03								
00:03:00	0.92	0.01	0.01								
00:05:00	0.92	0.01	0.01								
00:07:00	0.92	0.01	0.01								

PLOT OF WATER DEPTH AGAINST TIME



Sheet 1 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	24/03/09	[Redacted]	24/11/08
Contract: [Redacted]		Job No: 722201	
Sizewell C Supplementary Investigation		722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH37**

Depth (m below GL): **6.00-7.10**

Test Number: **1**

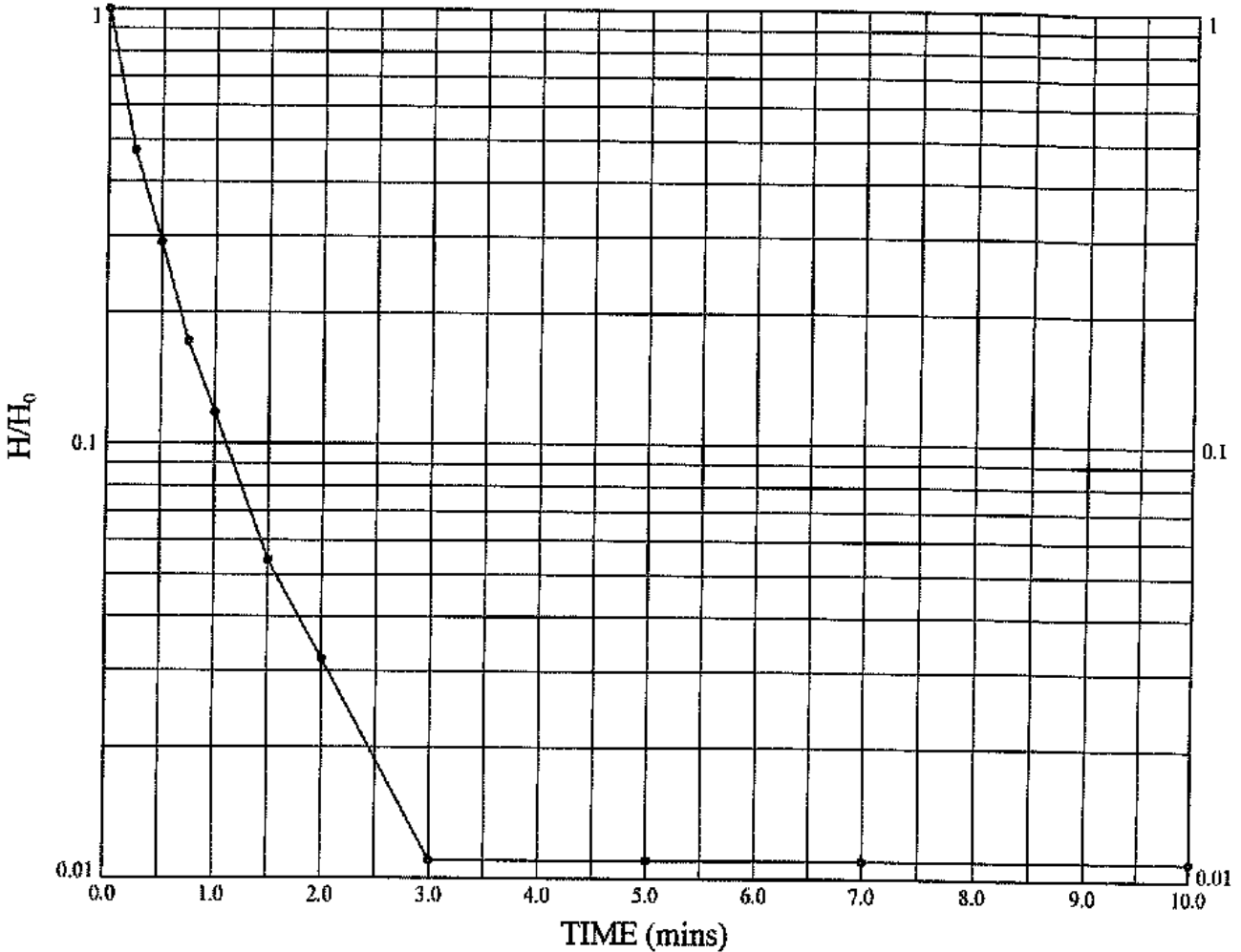
Test Date: **24/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **1.72**

National Grid Co-ordinates: **E:647208.4 N:264296.1**

PLOT OF H/H₀ AGAINST TIME



Cross Sectional Area, A = **0.00028** m²

Intake Factor, F/D = **16.18** m

Basic Time Lag, T (from plot) = **23** sec

In-situ Permeability, $k = \frac{A}{F \times T}$ = **7.62x10⁻⁴** m/sec

Notes : Intake Factor equation from Fig 7 BS5930:1999 section 25.4.6 has been used to calculate permeability. To enable calculation of permeability a measured standing water level of 0.93m prior to the test was used to determine head, H. Permeability has been calculated using the Graphical method in accordance with BS5930:1999 25.4.6.1 b.

Sheet 2 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	24/03/09	[REDACTED]	24/3/9
Contract: Sizewell C Supplementary Investigation		Job No: 722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH37**

Depth (m below GL): **6.00-7.10**

Test Number: **2**

Test Date: **24/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **1.72**

National Grid Co-ordinates: **E:647208.4 N:264296.1**

TEST SETUP DETAILS

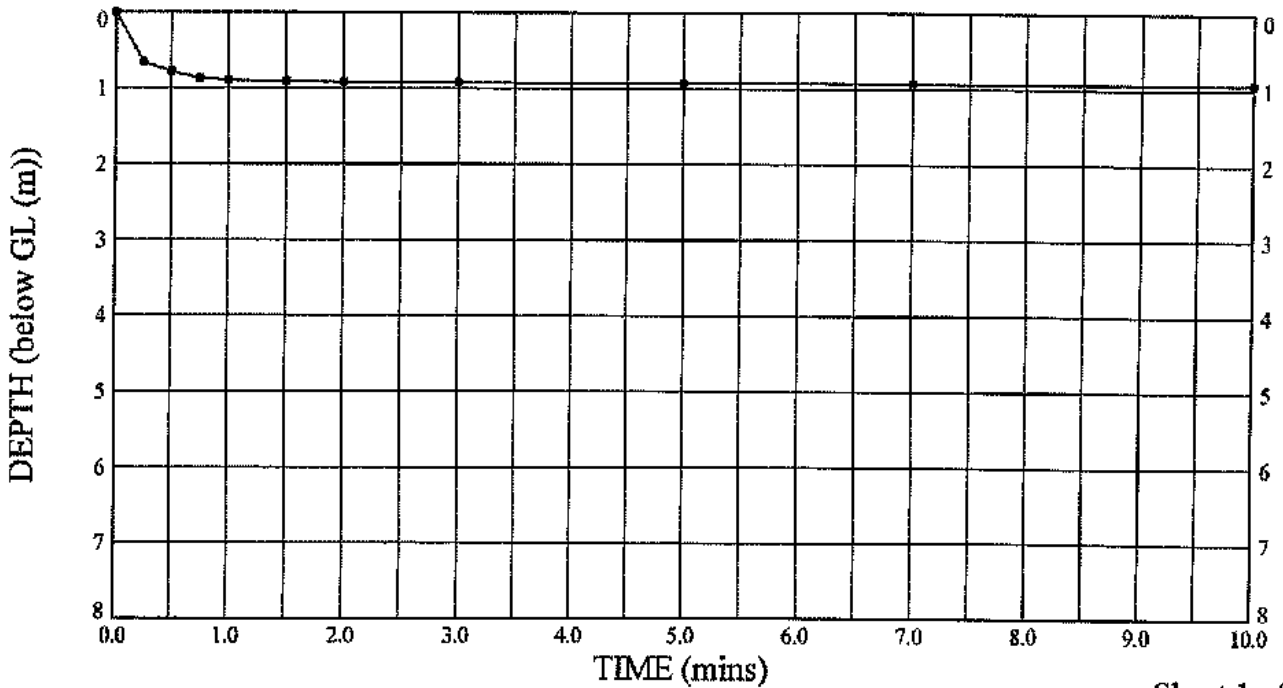
Depth measurements recorded from ground level.

Depth to top of response zone:	6.00 m	Type of piezometer:	Casagrande piezo
Depth to base of response zone:	7.10 m	Slotted pipe section:	- m
Length of response zone:	1.10 m	Type of piezometer fill:	Gravel
Initial groundwater level prior to test:	0.93 m	Weather:	Overcast
Borehole diameter:	200 mm		
Monitoring well diameter:	19 mm		

TEST MEASUREMENTS

Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho
00:00:00	0.00	0.93	1.00	00:10:00	0.93	0.00	0.00				
00:00:15	0.66	0.27	0.29								
00:00:30	0.78	0.15	0.16								
00:00:45	0.87	0.06	0.07								
00:01:00	0.89	0.04	0.04								
00:01:30	0.91	0.02	0.02								
00:02:00	0.92	0.01	0.01								
00:03:00	0.92	0.01	0.01								
00:05:00	0.93	0.00	0.00								
00:07:00	0.93	0.00	0.00								

PLOT OF WATER DEPTH AGAINST TIME



Sheet 1 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	24/03/09	[REDACTED]	24/3/9
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH37**

Depth (m below GL): **6.00-7.10**

Test Number: **2**

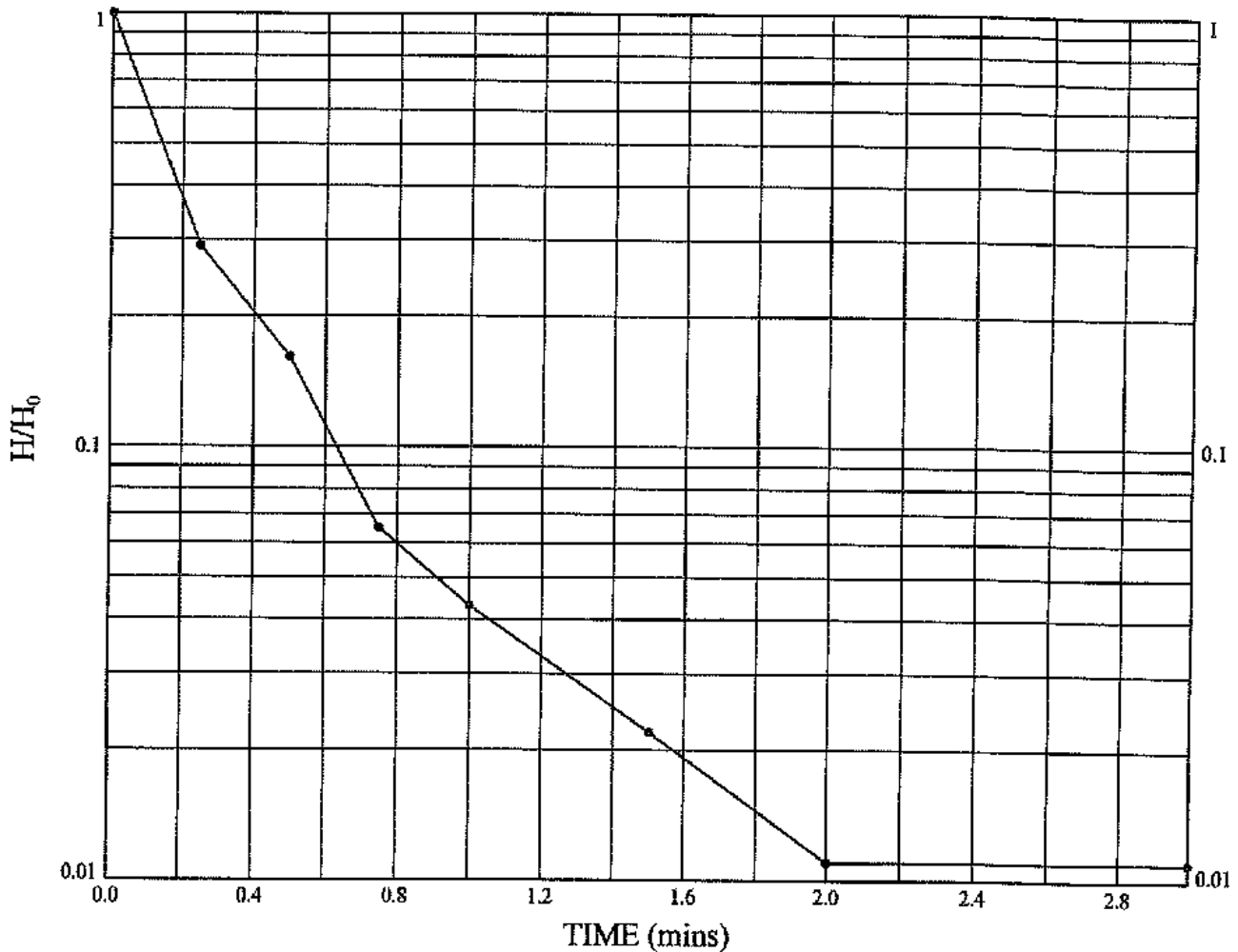
Test Date: **24/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **1.72**

National Grid Co-ordinates: **E:647208.4 N:264296.1**

PLOT OF H/H₀ AGAINST TIME



Cross Sectional Area, A = **0.00028** m²

Intake Factor, F/D = **16.18** m

Basic Time Lag, T (from plot) = **12** sec

In-situ Permeability, $k = \frac{A}{F \times T}$ = **1.46x10⁻³** m/sec

Notes : Intake Factor equation from Fig 7 BS5930:1999 section 25.4.6 has been used to calculate permeability. To enable calculation of permeability a measured standing water level of 0.93m prior to the test was used to determine head, H. Permeability has been calculated using the Graphical method in accordance with BS5930:1999 25.4.6.1 b.

Sheet 2 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	24/03/09	[REDACTED]	24/3/9
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH38**

Depth (m below GL): **6.50-7.80**

Test Number: **1**

Test Date: **24/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **1.65**

National Grid Co-ordinates: **E:647134.3 N:264215.0**

TEST SETUP DETAILS

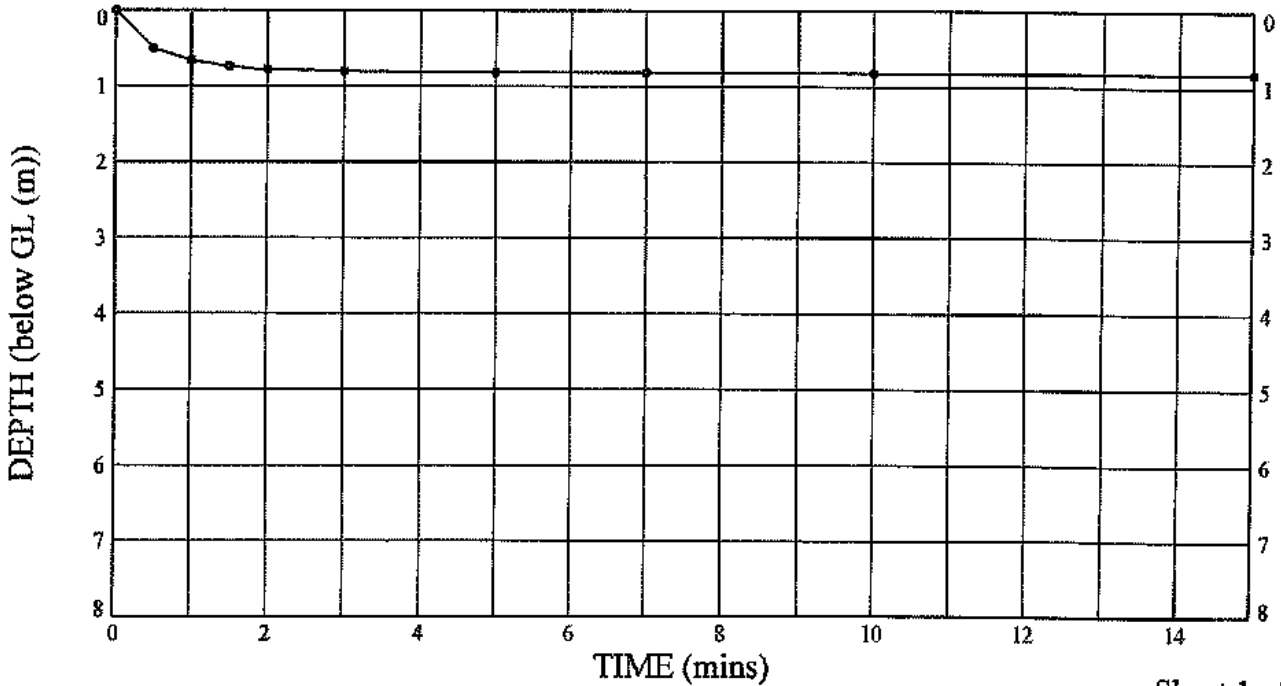
Depth measurements recorded from ground level.

Depth to top of response zone:	6.50 m	Type of piezometer:	Casagrande piezo
Depth to base of response zone:	7.80 m	Slotted pipe section:	- m
Length of response zone:	1.30 m	Type of piezometer fill:	Gravel
Initial groundwater level prior to test:	0.82 m	Weather:	Overcast
Borehole diameter:	200 mm		
Monitoring well diameter:	19 mm		

TEST MEASUREMENTS

Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho
00:00:00	0.00	0.82	1.00								
00:00:30	0.50	0.32	0.39								
00:01:00	0.66	0.16	0.20								
00:01:30	0.74	0.08	0.10								
00:02:00	0.78	0.04	0.05								
00:03:00	0.80	0.02	0.02								
00:05:00	0.82	0.00	0.00								
00:07:00	0.82	0.00	0.00								
00:10:00	0.82	0.00	0.00								
00:15:00	0.82	0.00	0.00								

PLOT OF WATER DEPTH AGAINST TIME



Sheet 1 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	24/03/09	[Redacted]	24/3/09
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH38**

Depth (m below GL): **6.50-7.80**

Test Number: **1**

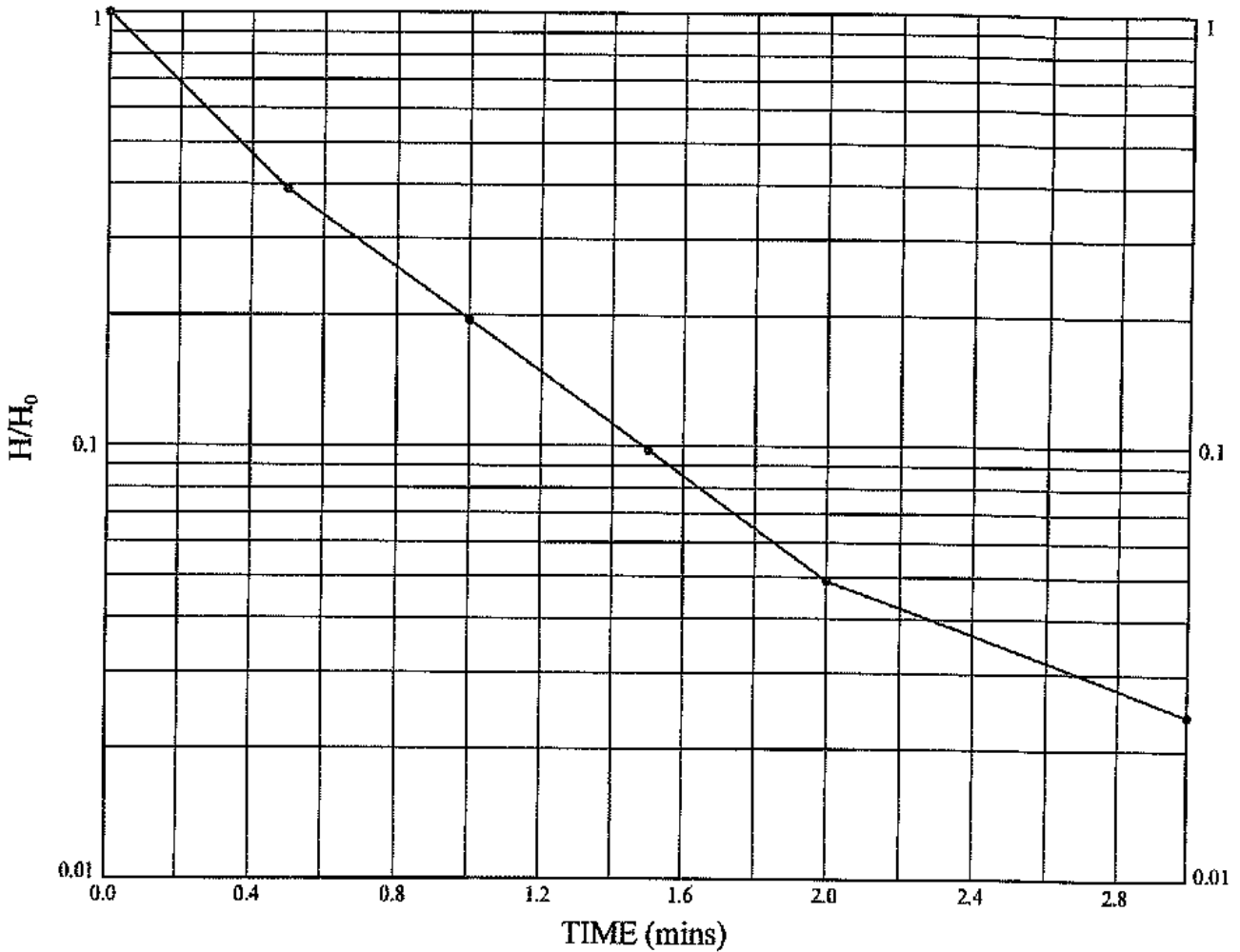
Test Date: **24/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **1.65**

National Grid Co-ordinates: **E:647134.3 N:264215.0**

PLOT OF H/H₀ AGAINST TIME



Cross Sectional Area, A = **0.00028** m²

Intake Factor, F/D = **17.93** m

Basic Time Lag, T (from plot) = **32** sec

In-situ Permeability, $k = \frac{A}{F \times T} = \mathbf{4.94 \times 10^{-4}}$ m/sec

Notes : Intake Factor equation from Fig 7 BS5930:1999 section 25.4.6 has been used to calculate permeability. To enable calculation of permeability a measured standing water level of 0.82m prior to the test was used to determine head, H. Permeability has been calculated using the Graphical method in accordance with BS5930:1999 25.4.6.1 b.

Sheet 2 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	24/03/09	[REDACTED]	24/3/9
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH38**

Depth (m below GL): **6.50-7.80**

Test Number: **2**

Test Date: **24/11/2008**

Test Supervisor: **SHancock**

Ground Level (m AOD): **1.65**

National Grid Co-ordinates: **E:647134.3 N:264215.0**

TEST SETUP DETAILS

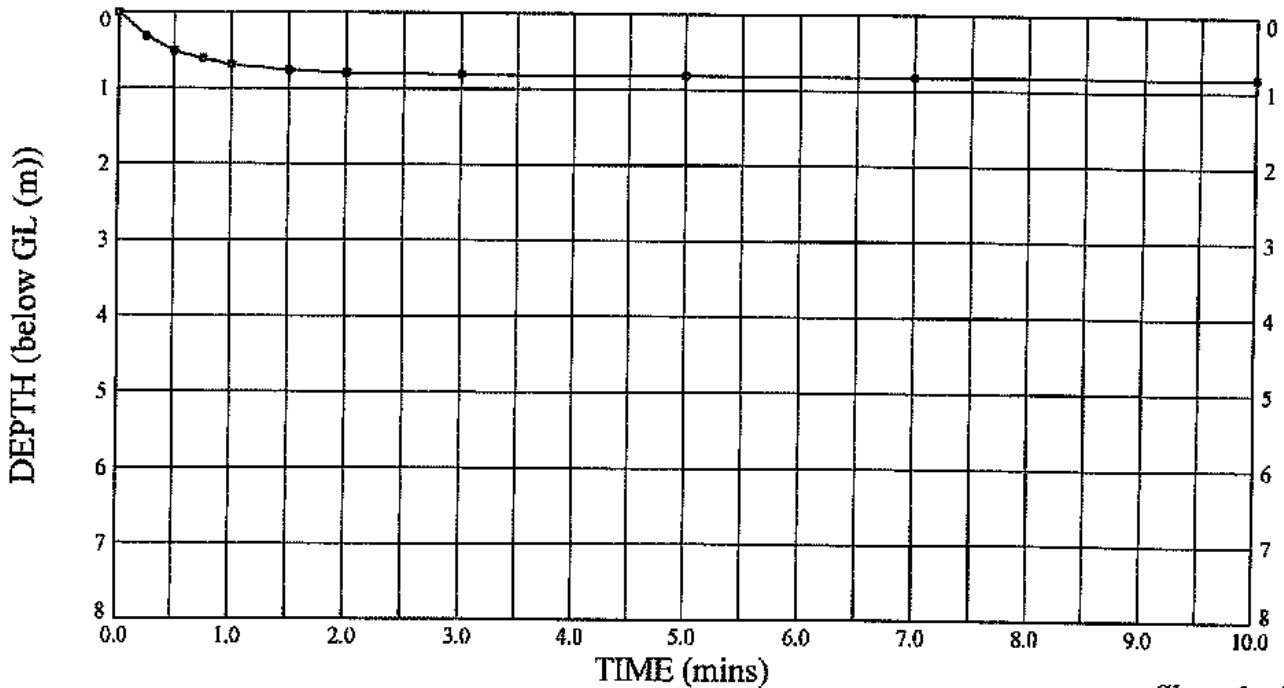
Depth measurements recorded from ground level.

Depth to top of response zone:	6.50 m	Type of piezometer:	Casagrande piezo
Depth to base of response zone:	7.80 m	Slotted pipe section:	- m
Length of response zone:	1.30 m	Type of piezometer fill:	Gravel
Initial groundwater level prior to test:	0.82 m	Weather:	Overcast
Borehole diameter:	200 mm		
Monitoring well diameter:	19 mm		

TEST MEASUREMENTS

Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho
00:00:00	0.00	0.82	1.00	00:10:00	0.82	0.00	0.00				
00:00:15	0.32	0.50	0.61								
00:00:30	0.51	0.31	0.38								
00:00:45	0.61	0.21	0.26								
00:01:00	0.69	0.13	0.16								
00:01:30	0.76	0.06	0.07								
00:02:00	0.79	0.03	0.04								
00:03:00	0.81	0.01	0.01								
00:05:00	0.82	0.00	0.00								
00:07:00	0.82	0.00	0.00								

PLOT OF WATER DEPTH AGAINST TIME



Sheet 1 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	24/03/09	[REDACTED]	24/3/09
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH38**

Depth (m below GL): **6.50-7.80**

Test Number: **2**

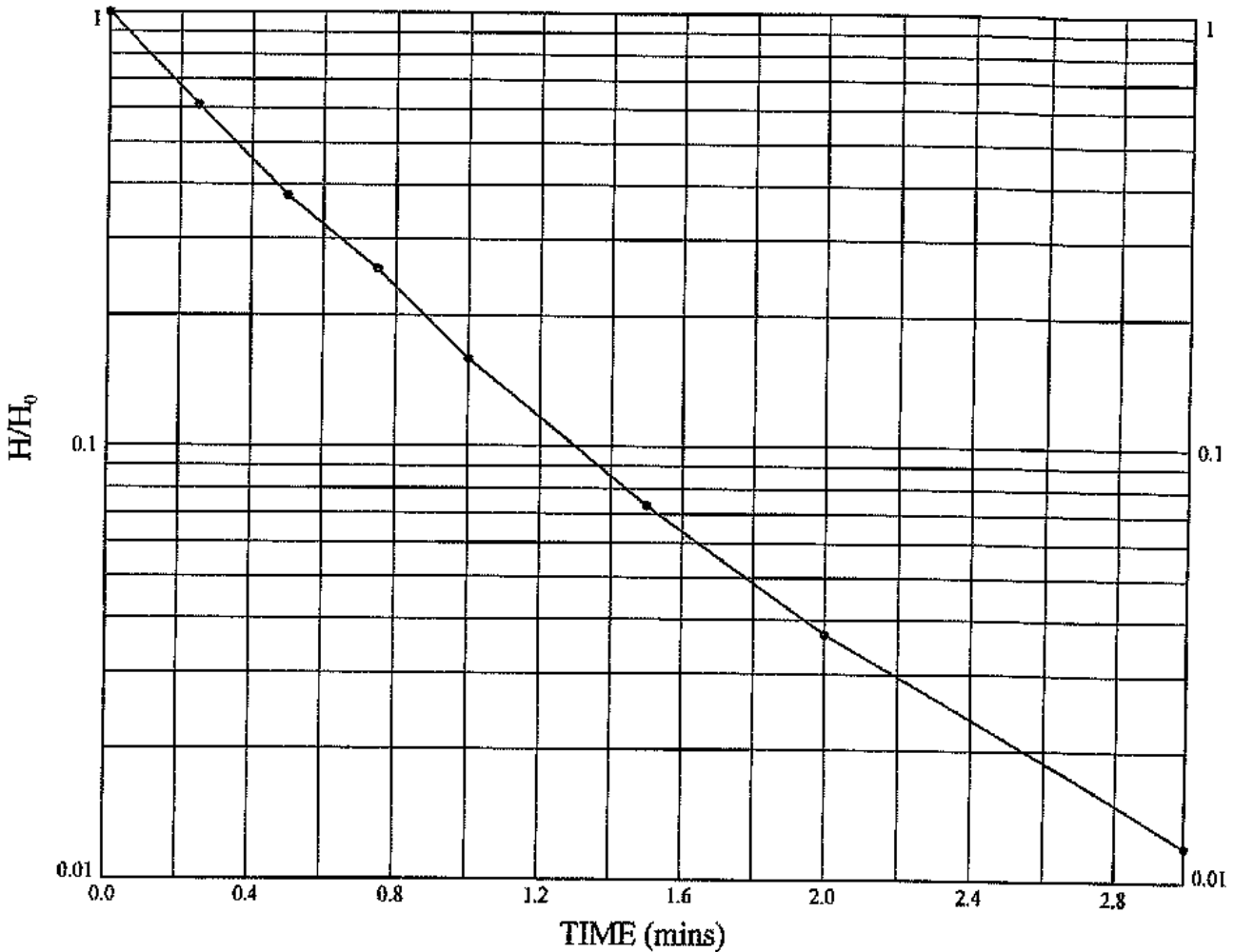
Test Date: **24/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **1.65**

National Grid Co-ordinates: **E:647134.3 N:264215.0**

PLOT OF H/H₀ AGAINST TIME



Cross Sectional Area, A = **0.00028** m²

Intake Factor, F/D = **17.93** m

Basic Time Lag, T (from plot) = **31** sec

In-situ Permeability, $k = \frac{A}{F \times T}$ = **5.10x10⁻⁴** m/sec

Notes : Intake Factor equation from Fig 7 BS5930:1999 section 25.4.6 has been used to calculate permeability. To enable calculation of permeability a measured standing water level of 0.82m prior to the test was used to determine head, H. Permeability has been calculated using the Graphical method in accordance with BS5930:1999 25.4.6.1 b.

Sheet 2 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	24/03/09	[REDACTED]	24/13/09
Contract: Sizewell C Supplementary Investigation		Job No: 722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH39**

Depth (m below GL): **7.50-8.80**

Test Number: **1**

Test Date: **24/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **1.63**

National Grid Co-ordinates: **E:647057.1 N:264123.0**

TEST SETUP DETAILS

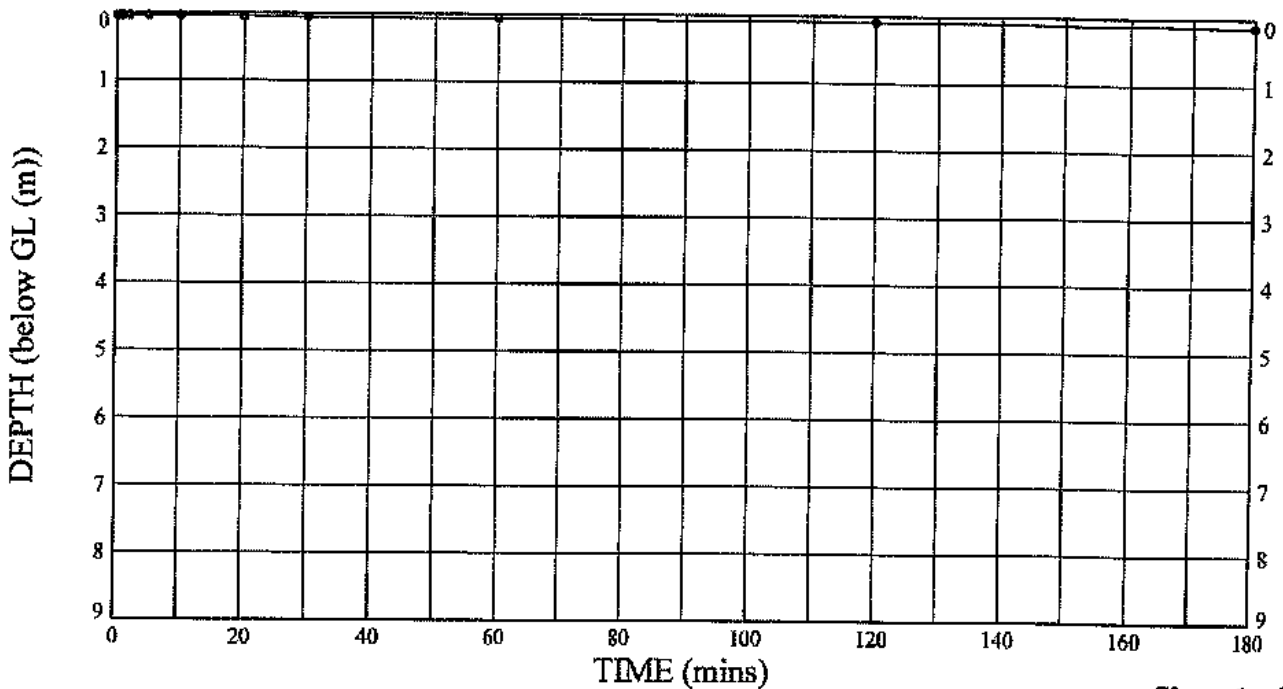
Depth measurements recorded from ground level.

Depth to top of response zone:	7.50 m	Type of piezometer:	Casagrande piezo
Depth to base of response zone:	8.80 m	Slotted pipe section:	- m
Length of response zone:	1.30 m	Type of piezometer fill:	Gravel
Initial groundwater level prior to test:	0.88 m	Weather:	Drizzle
Borehole diameter:	200 mm		
Monitoring well diameter:	19 mm		

TEST MEASUREMENTS

Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho
00:00:00	0.03	0.85	1.00	03:00:00	0.12	0.76	0.89				
00:00:30	0.03	0.85	1.00								
00:01:00	0.03	0.85	1.00								
00:02:00	0.03	0.85	1.00								
00:05:00	0.03	0.85	1.00								
00:10:00	0.03	0.85	1.00								
00:20:00	0.04	0.84	0.99								
00:30:00	0.05	0.83	0.98								
01:00:00	0.06	0.82	0.97								
02:00:00	0.09	0.79	0.93								

PLOT OF WATER DEPTH AGAINST TIME



Sheet 1 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	24/03/09	[Redacted]	24/3/9
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH39**

Depth (m below GL): **7.50-8.80**

Test Number: **1**

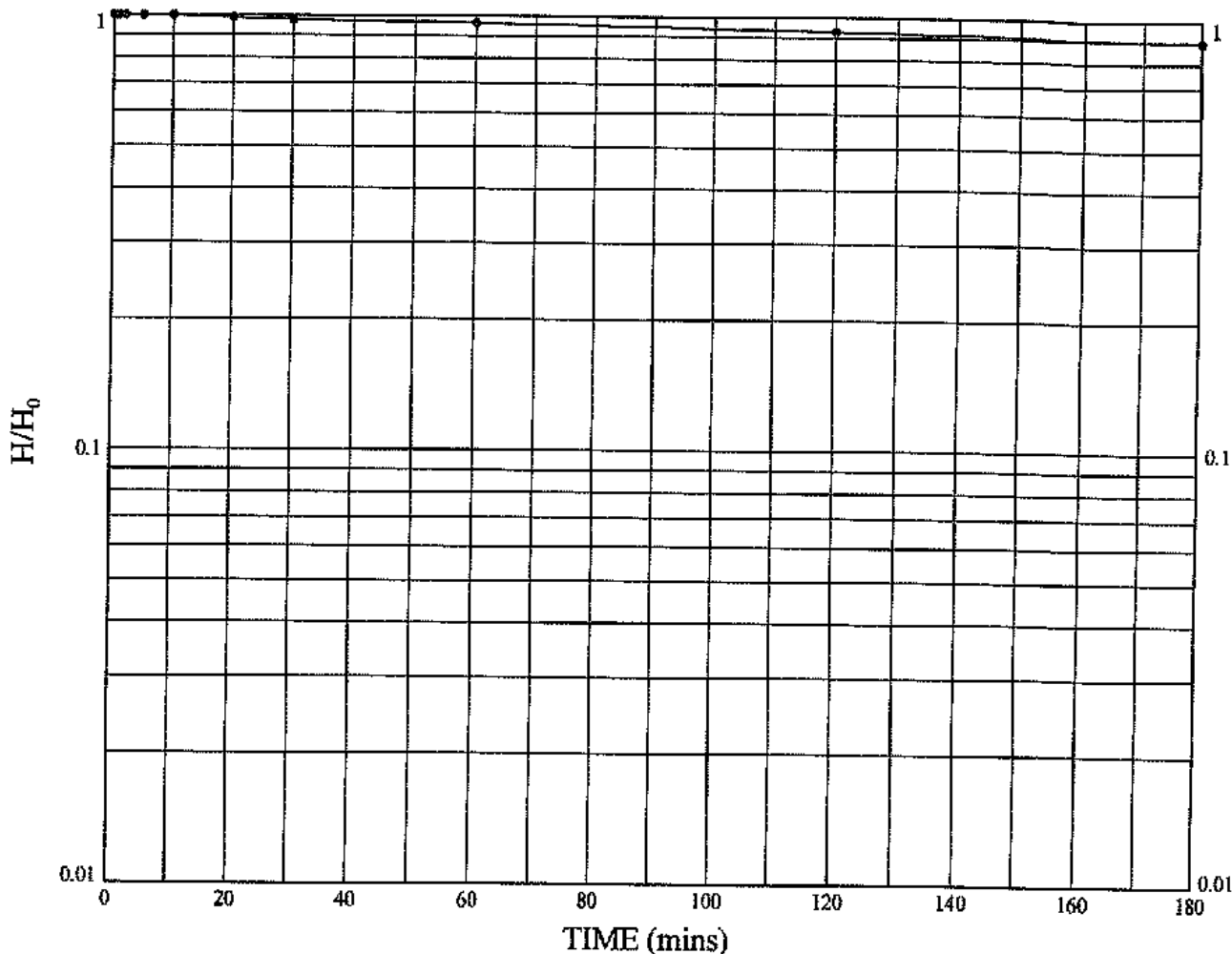
Test Date: **24/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **1.63**

National Grid Co-ordinates: **E:647057.1 N:264123.0**

PLOT OF H/H₀ AGAINST TIME



Cross Sectional Area, A = **0.00028** m²

Intake Factor, F/D = **17.93** m

Basic Time Lag, T (from plot) = **155837** sec

In-situ Permeability, $k = \frac{A}{F \times T}$ = **1.01x10⁻⁷** m/sec

Notes: Intake Factor equation from Fig 7 BS5930:1999 section 25.4.6 has been used to calculate permeability. To enable calculation of permeability a measured standing water level of 0.88m prior to the test was used to determine head, H. Permeability has been calculated using the Graphical method in accordance with BS5930:1999 25.4.6.1 b.

Sheet 2 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
██████████	24/03/09	██████████	24/3/09
Contract:		Job No:	
Sizevell C Supplementary Investigation		722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH40**

Depth (m below GL): **12.00-17.00**

Test Number: **1**

Test Date: **24/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **3.96**

National Grid Co-ordinates: **E:647047.7 N:264016.0**

TEST SETUP DETAILS

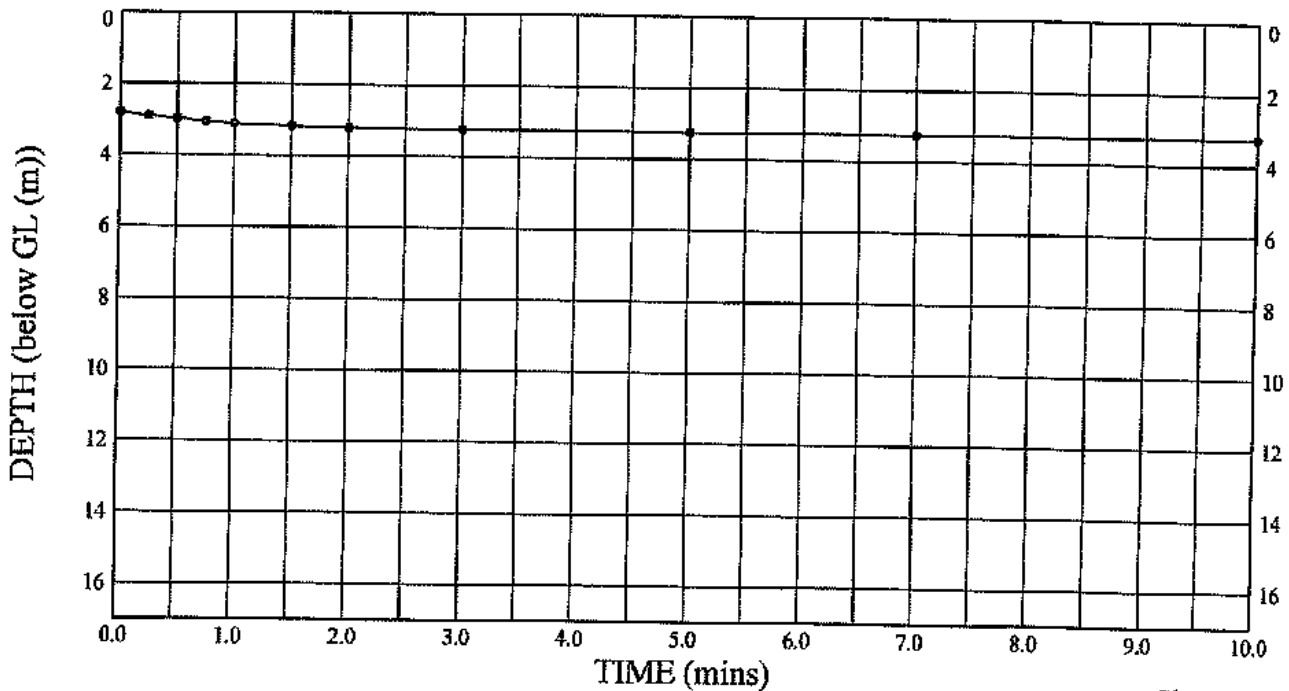
Depth measurements recorded from ground level.

Depth to top of response zone:	12.00 m	Type of piezometer:	Slotted standpipe
Depth to base of response zone:	17.00 m	Slotted pipe section:	13.00-16.00 m (Fitted with Geotextile)
Length of response zone:	5.00 m	Type of piezometer fill:	
Initial groundwater level prior to test:	3.24 m	Weather:	Overcast
Borehole diameter:	200 mm		
Monitoring well diameter:	50 mm		

TEST MEASUREMENTS

Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho
00:00:00	2.81	0.43	1.00	00:10:00	3.24	0.00	0.00				
00:00:15	2.91	0.33	0.77								
00:00:30	2.97	0.27	0.63								
00:00:45	3.06	0.18	0.42								
00:01:00	3.11	0.13	0.30								
00:01:30	3.17	0.07	0.16								
00:02:00	3.22	0.02	0.05								
00:03:00	3.23	0.01	0.02								
00:05:00	3.24	0.00	0.00								
00:07:00	3.24	0.00	0.00								

PLOT OF WATER DEPTH AGAINST TIME



Sheet 1 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	24/03/09	[Redacted]	24/3/9
Contract: Sizewell C Supplementary Investigation		Job No: 722201	



STRUCTURAL_SOILS_GINT_LIBRARY.GLB1 - PERM - 1 OF 2 - WELL - FALL OR RISE | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 2403099 - 14.42.

IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH40**

Depth (m below GL): **12.00-17.00**

Test Number: **1**

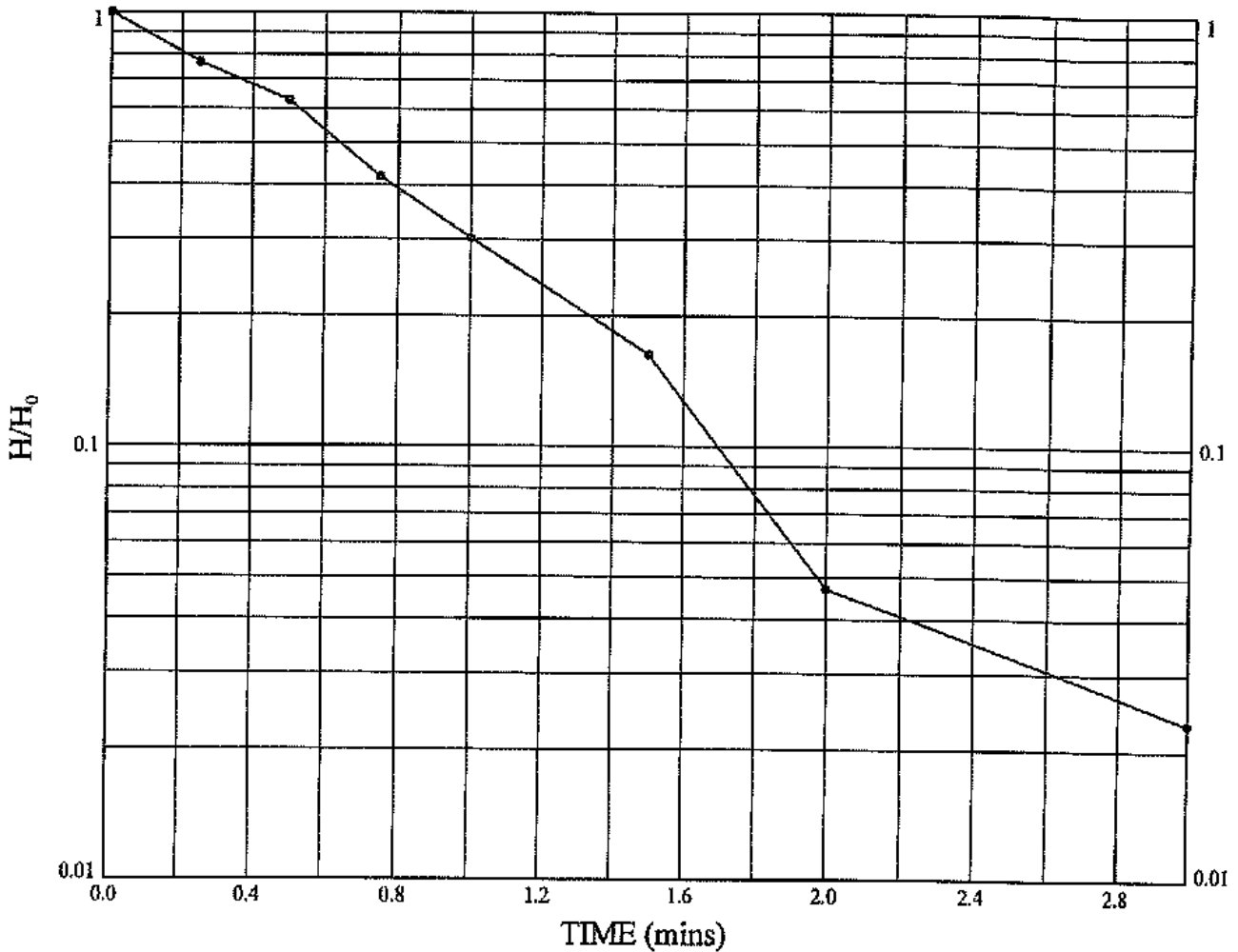
Test Date: **24/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **3.96**

National Grid Co-ordinates: **E:647047.7 N:264016.0**

PLOT OF H/H₀ AGAINST TIME



Cross Sectional Area, A = **0.00196** m²

Intake Factor, F = **8.03** m

Basic Time Lag, T (from plot) = **51** sec

In-situ Permeability, $k = \frac{A}{F \times T}$ = **4.79x10⁻⁶** m/sec

Notes: Intake Factor equation D from Fig 6 BS5930:1999 section 25.4.6 has been used to calculate permeability. To enable calculation of permeability a measured standing water level of 3.24m prior to the test was used to determine head, H. Permeability has been calculated using the Graphical method in accordance with BS5930:1999 25.4.6.1 b. No seal at base of hole.

Sheet 2 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[REDACTED]	24/03/09	[REDACTED]	24/3/9
Contract: Sizewell C Supplementary Investigation		Job No: 722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH40**

Depth (m below GL): **12.00-17.00**

Test Number: **2**

Test Date: **24/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **3.96**

National Grid Co-ordinates: **E:647047.7 N:264016.0**

TEST SETUP DETAILS

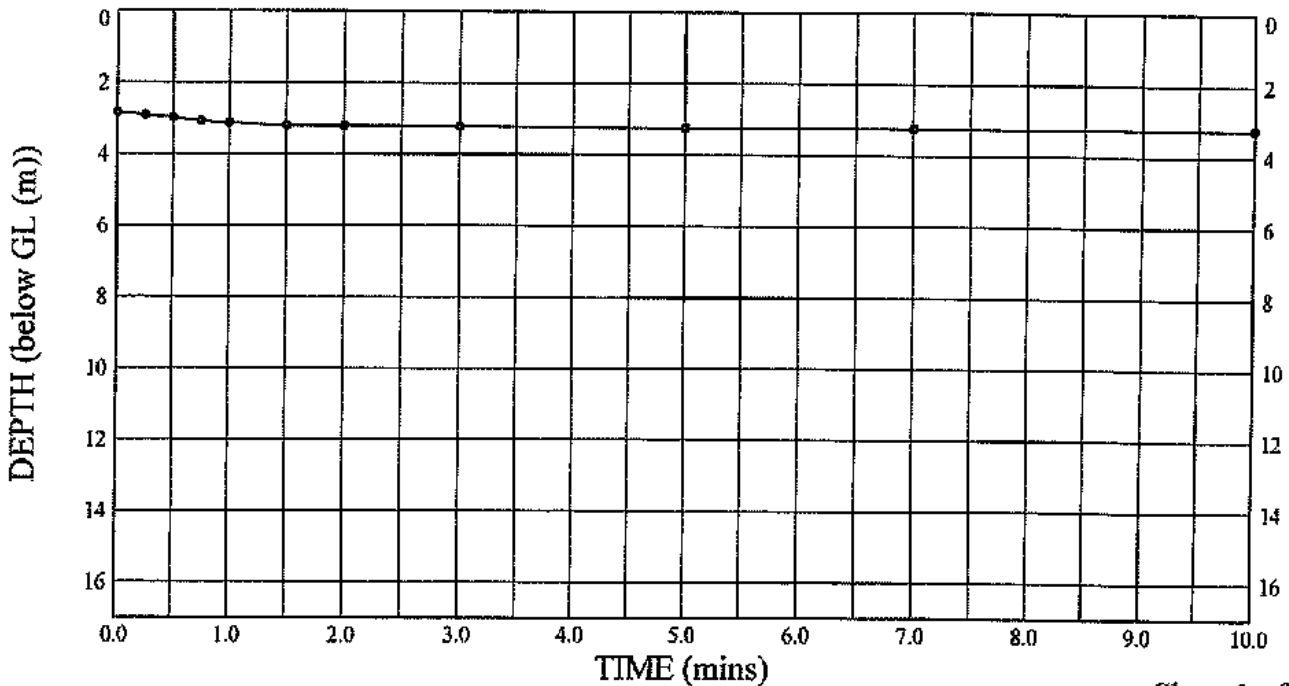
Depth measurements recorded from ground level.

Depth to top of response zone:	12.00 m	Type of piezometer:	Slotted standpipe
Depth to base of response zone:	17.00 m	Slotted pipe section:	13.00-16.00 m (Fitted with Geotextile)
Length of response zone:	5.00 m	Type of piezometer fill:	
Initial groundwater level prior to test:	3.24 m	Weather:	Overcast
Borehole diameter:	200 mm		
Monitoring well diameter:	50 mm		

TEST MEASUREMENTS

Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho	Time (mins)	Water depth (m)	Head (m)	H/Ho
00:00:00	2.83	0.41	1.00	00:10:00	3.24	0.00	0.00				
00:00:15	2.91	0.33	0.81								
00:00:30	2.98	0.26	0.63								
00:00:45	3.07	0.17	0.42								
00:01:00	3.14	0.10	0.24								
00:01:30	3.20	0.04	0.10								
00:02:00	3.21	0.03	0.07								
00:03:00	3.22	0.02	0.05								
00:05:00	3.24	0.00	0.00								
00:07:00	3.24	0.00	0.00								

PLOT OF WATER DEPTH AGAINST TIME



Sheet 1 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	24/03/09	[Redacted]	24/3/9
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	



IN-SITU PERMEABILITY TEST - FALLING HEAD

In accordance with BS 5930:1999

Borehole : **BH40**

Depth (m below GL): **12.00-17.00**

Test Number: **2**

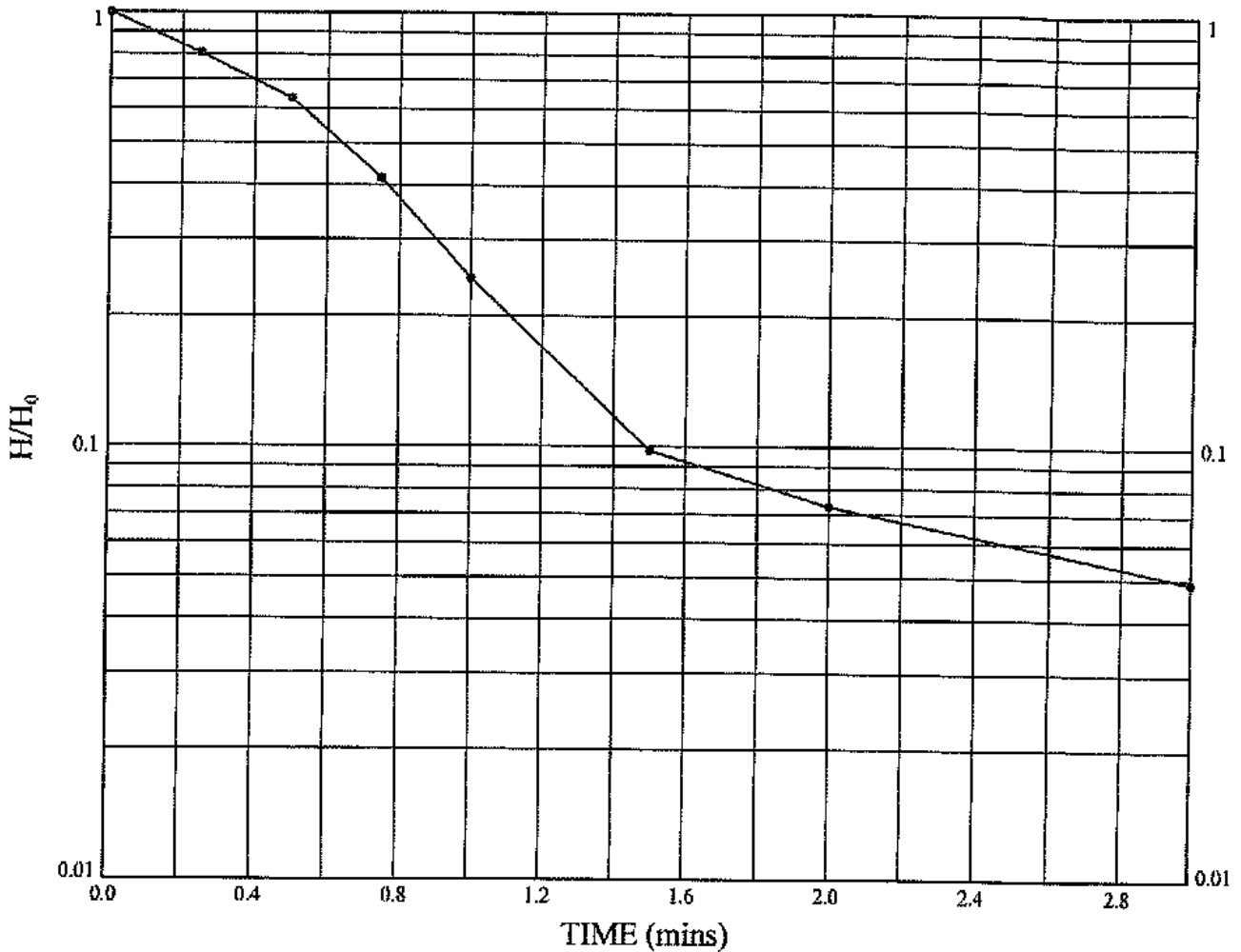
Test Date: **24/11/2008**

Test Supervisor: **SHandcock**

Ground Level (m AOD): **3.96**

National Grid Co-ordinates: **E:647047.7 N:264016.0**

PLOT OF H/H₀ AGAINST TIME



Cross Sectional Area, A = **0.00196** m²

Intake Factor, F = **8.03** m

Basic Time Lag, T (from plot) = **48** sec

In-situ Permeability, $k = \frac{A}{F \times T}$ = **5.09x10⁻⁶** m/sec

Notes : Intake Factor equation D from Fig 6 BS5930:1999 section 25.4.6 has been used to calculate permeability. To enable calculation of permeability a measured standing water level of 3.24m prior to the test was used to determine head, H. Permeability has been calculated using the Graphical method in accordance with BS5930:1999 25.4.6.1 b. No seal at base of hole.

Sheet 2 of 2



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

	Compiled By	Date	Checked By	Date
	[REDACTED]	24/03/09	[REDACTED]	24/3/9
Contract:			Job No:	
Sizewell C Supplementary Investigation			722201	

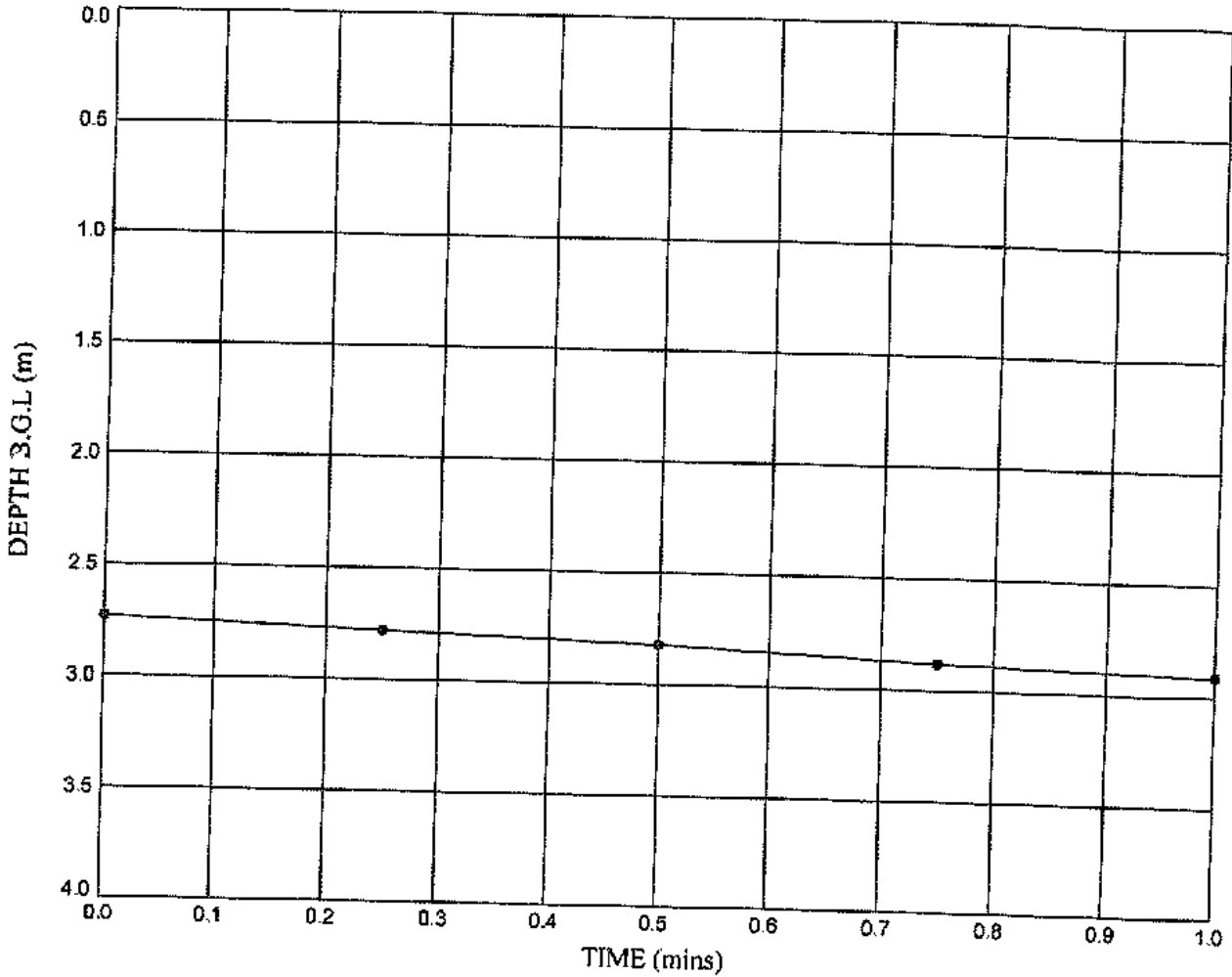
BOREHOLE SOAKAWAY TEST

Test position: BH30

Ground Level (m AOD): 6.49

National Grid Co-ordinates: E:647479.7 N:263787.7

PLOT OF DEPTH OF WATER BELOW GROUND LEVEL AGAINST TIME



Effective depth, D_e = 0.47 m

Effective storage volume, V_{p75-25} = 0.004153 m³

Surface area, a_{psu} = 0.128413 m²

Time, t_{p75-25} = 59 secs

Infiltration coefficient, f = 5.48×10^{-4} m/s

Notes : Calculation does not account for volume of standpipe or gravel pack.
Borehole has bentonite seal from GL to 2.20m depth.

Test hole details:

Hole depth at start of test: 3.20m
Borehole diameter: 150mm

Legend:

Test 1 (25/11/2008)



STRUCTURAL SOILS
The Old School
Stillhouse Lane
Bedminster
Bristol BS3 4EB

Compiled By

Date

Checked By

Date

19/03/09

24/3/09

Contract:

**Sizewell C Supplementary
Investigation**

Job No.

722201

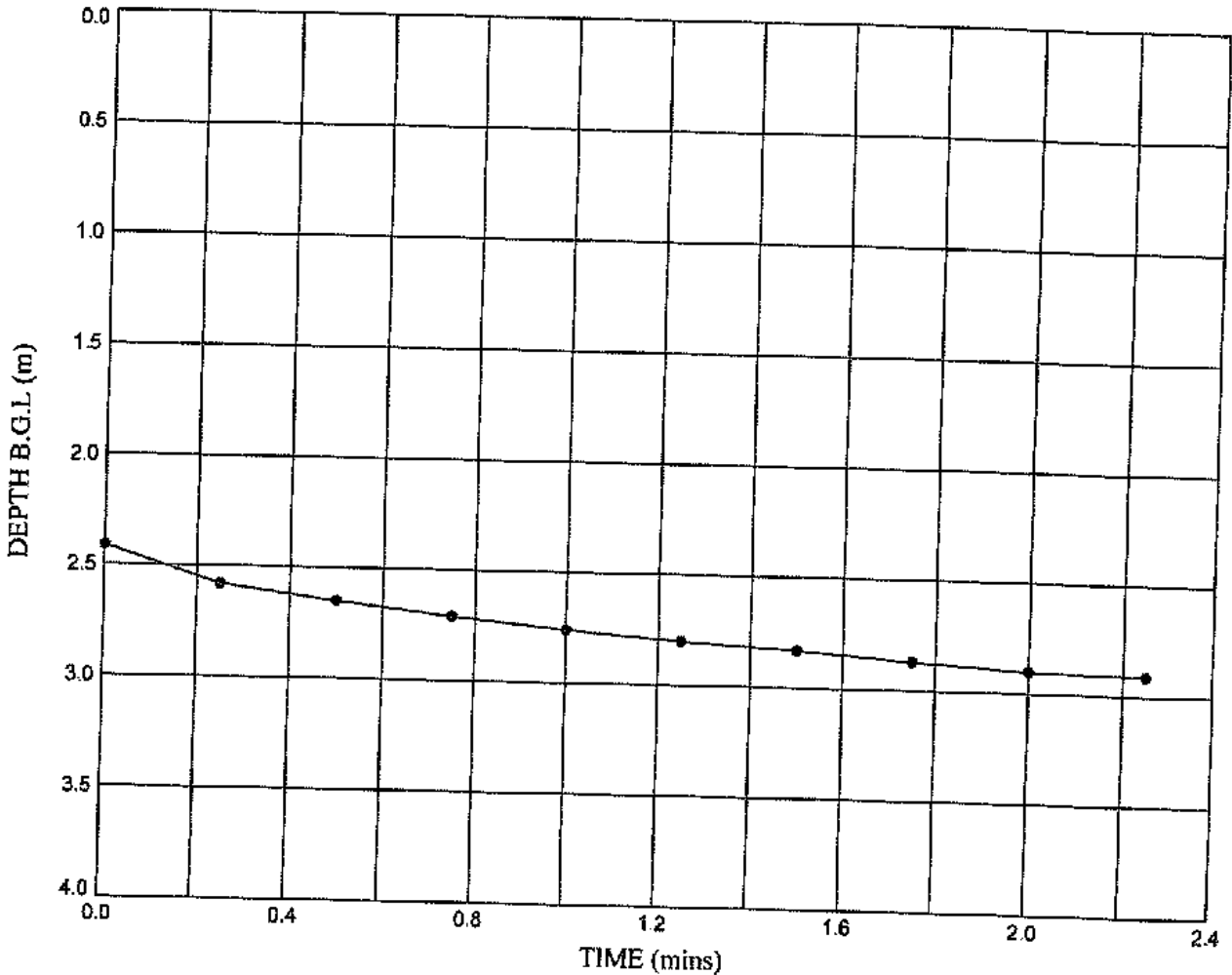
BOREHOLE SOAKAWAY TEST

Test position: BH30

Ground Level (m AOD): 6.49

National Grid Co-ordinates: E:647479.7 N:263787.7

PLOT OF DEPTH OF WATER BELOW GROUND LEVEL AGAINST TIME




Effective depth, D_e = 0.79 m
 Effective storage volume, V_{p75-25} = 0.006980 m^3
 Surface area, a_{p50} = 0.203811 m^2
 Time, t_{p75-25} = 150 secs
 Infiltration coefficient, f = 2.28×10^{-4} m/s

Notes : Calculation does not account for volume of standpipe or gravel pack.
 Borehole has bentonite seal from GL to 2.20m depth.

Test hole details:
 Hole depth at start of test: 3.20m
 Borehole diameter: 150mm

Legend:
 Test 2 (25/11/2008)

STRUCTURAL_SOILS_GINT_LIBRARY_GLB11 - BH SOAKAWAY | 722201_SIZWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v8_02 | 19/03/09 - 15:51

 <p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By		Date	Checked By	Date
	[Redacted]		19/03/09	[Redacted]	24/03/09
	Contract: Sizewell C Supplementary Investigation			Job No: 722201	

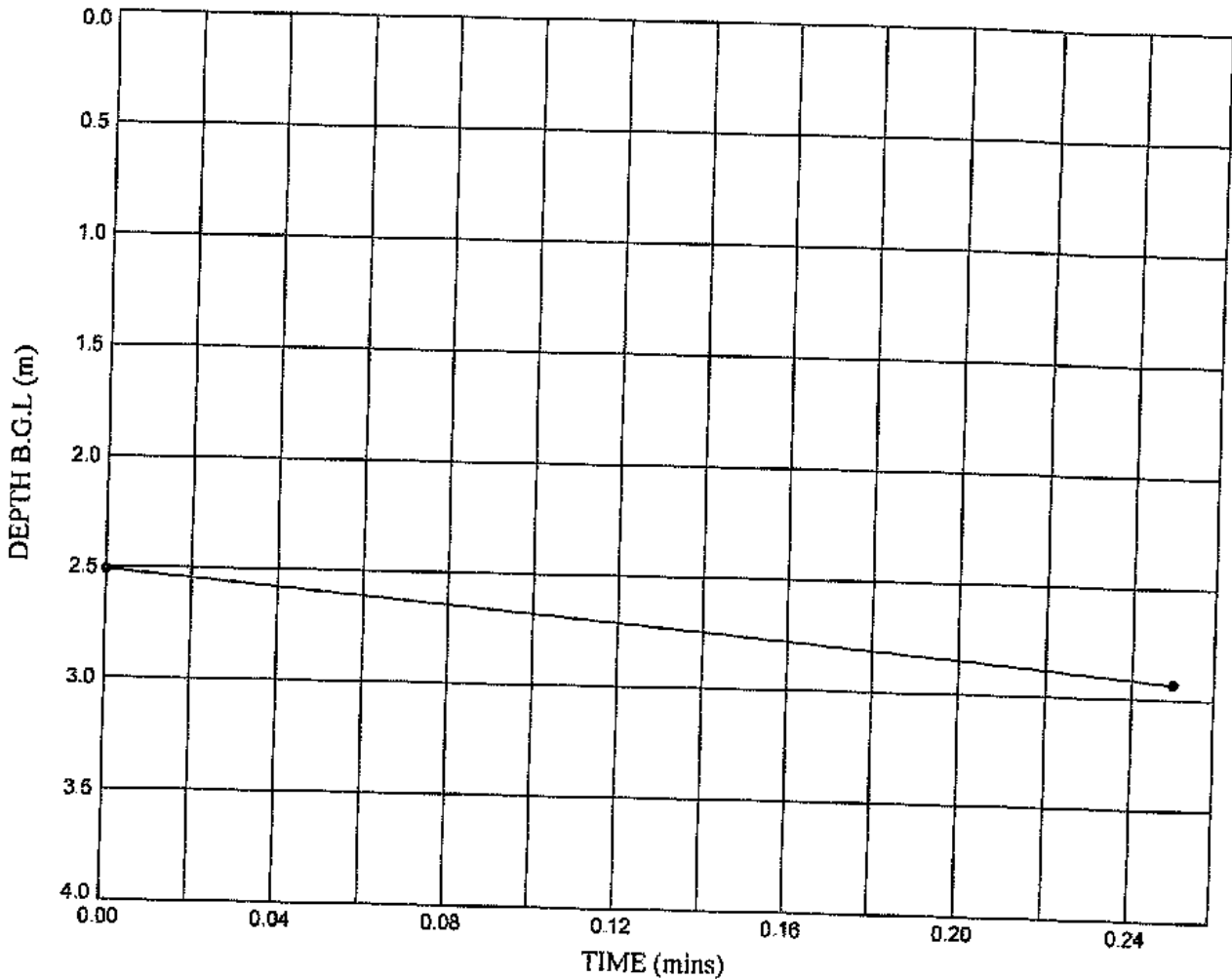
BOREHOLE SOAKAWAY TEST

Test position: BH34

Ground Level (m AOD): 6.51

National Grid Co-ordinates: E:647418.9 N:263833.6

PLOT OF DEPTH OF WATER BELOW GROUND LEVEL AGAINST TIME



Effective depth, D_e = 0.69 m
 Effective storage volume, V_{p75-25} = 0.006097 m³
 Surface area, a_{p50} = 0.180249 m²
 Time, t_{p75-25} = 12 secs
 Infiltration coefficient, f = 2.82×10^{-3} m/s

Notes : Calculation does not account for volume of standpipe or gravel pack.
 Borehole has bentonite seal from GL to 2.20m depth.

Test hole details:
 Hole depth at start of test: 3.20m
 Borehole diameter: 150mm

Legend:
 Test 1 (25/11/2008)

STRUCTURAL_SOILS_GINT_LIBRARY_GLBH - BH SOAKAWAY | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - vB_02 | 18/03/09 - 15:52



STRUCTURAL SOILS
 The Old School
 Stillhouse Lane
 Bedminster
 Bristol BS3 4EB

Compiled By	Date	Checked By	Date
[Redacted]	19/03/09	[Redacted]	24/3/9
Contract:		Job No:	
Sizewell C Supplementary Investigation		722201	

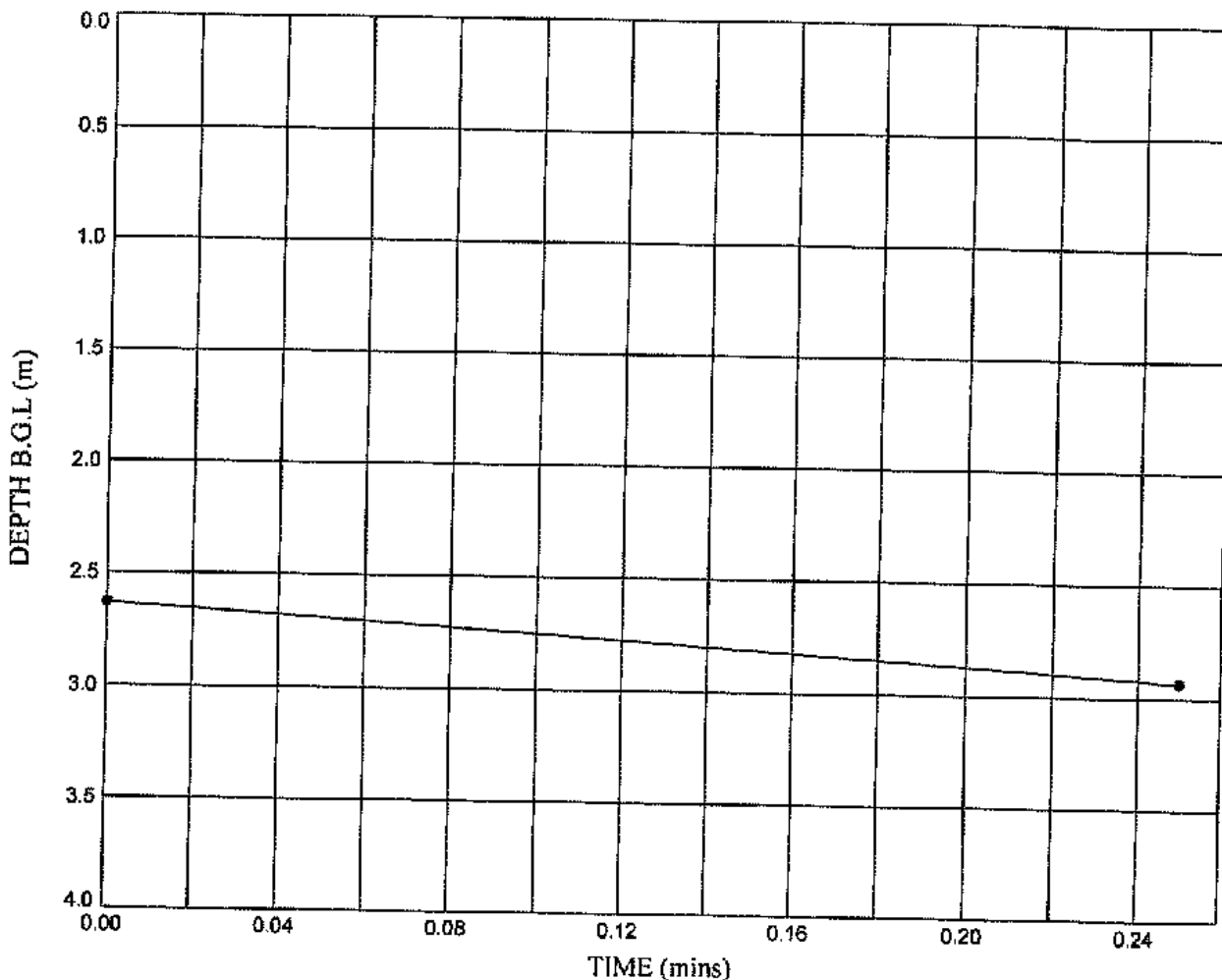
BOREHOLE SOAKAWAY TEST

Test position: BH34

Ground Level (m AOD): **6.51**

National Grid Co-ordinates: **E:647418.9 N:263833.6**

PLOT OF DEPTH OF WATER BELOW GROUND LEVEL AGAINST TIME



Effective depth, D_e = **0.57** m

Effective storage volume, V_{p75-25} = **0.005036** m³

Surface area, α_{p50} = **0.151975** m²

Time, t_{p75-25} = **14** secs

Infiltration coefficient, f = **2.37×10^{-3}** m/s

Notes : Calculation does not account for volume of standpipe or gravel pack.
Borehole has bentonite seal from GL to 2.20m depth.

Test hole details:

Hole depth at start of test: 3.20m

Borehole diameter: 150mm

Legend:

Test 2 (25/11/2008)

STRUCTURAL_SOILS_GINT_LIBRARY.GLB1 - BH SOAKAWAY | 722201_SIZEWELL_C_SUPPLEMENTARY_INVESTIGATION.GPJ - v0_02 | 19/03/09 - 15:52

<p>STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB</p>	Compiled By	Date	Checked By	Date
	[Redacted]	19/03/09	[Redacted]	24/3/09
	Contract: Sizewell C Supplementary Investigation		Job No: 722201	

NOT PROTECTIVELY MARKED

Appendix F – Ground Investigation Factual Reports

Structural Soils 2014

This report contains confidential information. Therefore this document is only available on request to those who have a legitimate need to view the information

NOT PROTECTIVELY MARKED