REC
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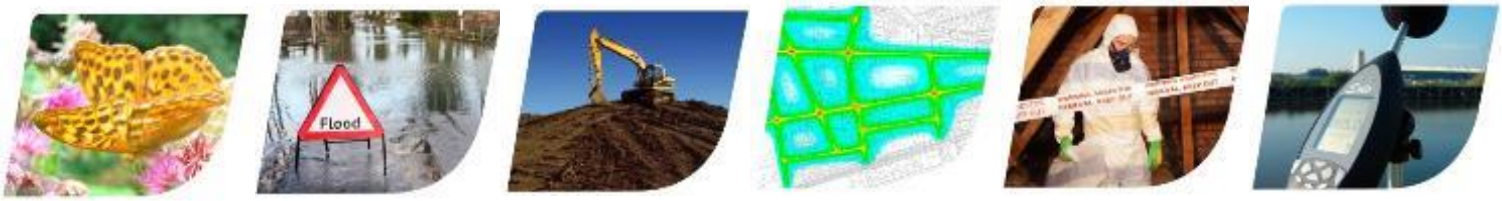
GEO-ENVIRONMENTAL SITE INVESTIGATION
SOMPTING, WEST SUSSEX

REC REFERENCE: 20612P2R4

REPORT PREPARED FOR: PERSIMMON HOMES SOUTH COAST

FEBRUARY 2019



QUALITY ASSURANCE

Issue/revision	Issue 1	Revision 1	Revision 2	Revision 3	Revision 4
Remarks	Draft	Revised to include reference to updated site boundary and design	Revised to include updated site layout plan	Revised to include updated drawing	Revised after client comments
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Project number	20612	20612p2r1	20612p2r2	20612p2r3	20612p2r4

EXECUTIVE SUMMARY

Site Address	West Street, Sompting, West Sussex, BN15 0DF
Grid Reference	516679,105450
Total Site Area	44.6 ha
Study Site Area	27.25 ha
Current Site Use	The area of the site considered in this report is situated to the north and south of West Street, Sompting and can be split into three areas. These comprised the northern section of ~9.4 ha, which was primarily an equine paddock, a southern of ~17 ha area of open farm land used for grain crops and a second smaller section ~3.5 ha comprising a small paddock area. An area measuring approximately 14.5ha associated with Cokeham Brook comprises rough grassland and grazing. REC understands that this was included within the scheme in 2017. It is proposed for ecological enhancements and does not form part of this Assessment.
Intrusive Ground Investigation	
Ground Conditions	**Made Ground** Made Ground was variable in composition comprising both fine and coarse grained soils. Coarse grained soils typically comprised dark slightly clayey sandy GRAVEL. Sand was coarse grained with gravel comprising angular, fine to coarse flints with occasional brick. Fine grained soils typically comprised dark brown slightly gravelly sandy silty CLAY. **Superficial** Head Deposits were highly variable in composition and consistency comprising both fine and coarse grained soils. Coarse grained soils typically comprised light brown slightly sandy clayey GRAVEL and soft to firm CLAY / SILT with variable quantities of sand and gravel. **Bedrock** The Tarrant Chalk member was encountered at depths ranging between 1.70 and 9.00mbgl and was recovered as creamy off white putty chalk due to the percussive nature of the window sampling and cable percussive rigs. **Ground Water** Groundwater was encountered as seepages in window samples locations between 1.20mbgl and 4.00mbgl although at depths generally greater than 2.20mbgl and was generally found within areas of high sand and gravel content. The cable percussive locations encountered groundwater and gave strikes between 6.5mbgl and 13.5mbgl.
Geotechnical Considerations	
Foundations and Construction Considerations	Based on a typical undrained shear strength of 50kN/m^2 derived from SPT's and hand shear vanes and a relative density of medium dense in coarse grained soils, allowable bearing capacities for conventional shallow foundations in the range of 100 kN/m^2 could be achieved limiting total settlement to less than 25mm. Piled foundations formed into the Head Deposits and underlying Chalk could be considered for larger structures. Loads of 180kN could be transferred to depths of 10m on a pile diameter of 300mm. Further detail is presented in Section 5.0.
Sulphate Assessment	Class DS-1, AC-1

Revised Conceptual Site Model (CSM)

All concentrations were below the Tier 1 screening values of the proposed end use, with the exception of localised PAH concentrations in the area of WS113. It is considered that the concentrations within this area present a significant risk to proposed users.

Conclusion and Recommendations

In order to determine the extent of concentrations and requirements for localised remediation it is recommended that further investigation should be undertaken in this area. For costing purposes it is considered that remedial measures will likely involve the placement of a clean cover system within this area.

Ground Gas monitoring has indicated a CS-1 classification, meaning that gas protection measures are not necessary, however additional monitoring in accordance with best practice should be undertaken, ahead of adoption.

Consideration should also be given to the potential risk from the encountered concentration posed to ground workers. This should be undertaken through a COSHH assessment for development works. Such measures including good site hygiene and PPE should be considered.

A large area was added to the proposed site boundary in 2017. This area has not been investigated by REC and does not form part of this report. It is recommended that an additional site investigation is carried out to suitably characterise this part of the site.

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1.0 INTRODUCTION

1.1 Background

Resource and Environmental Consultants (REC) Ltd have been commissioned by Persimmon Homes South Coast (PH) to undertake a Phase II Geo-Environmental Intrusive Investigation at West Street, Sompting, West Sussex, BN15 0DF.

The site has been subject to a Desk Top Study Report, with the findings presented within the report entitled 'Phase I Geo-Environmental Desk Top Study, West Street, Sompting, West Sussex', ref: REC Report 20612, dated March 2014. The report identified a number of potentially active pollution linkages, and is further detailed in Section 2.1.

A site location plan is presented in Appendix III, Figure 1.

1.2 Proposed Development

Hybrid planning application. (1) Outline planning permission (all matters reserved with the exception of access) for the erection of up to and including 520 dwellings, community orchard/growing space, non-vehicular links between the site and Worthing, traffic calming measures, associated landscaping, open space / recreation areas, provision of formal playing pitches, ecological enhancements including improvements and extension to Cokeham Brooks Local Wildlife Site, and all other associated development works. (2) Full planning permission for 100 dwellings (part of the overall 520 dwellings comprising 9 no 1-bed, 44 no. 2-bed, 37 no. 3-bed and 10 no 4-bed homes, including 30% affordable housing) and all other associated development works (Phase1). (3) Change of use of land south of Hamble Recreation Ground to community/education and agricultural/horticultural uses associated with a new Community Farm.

The proposed site development plan is present as Figure 2 in Appendix III

1.3 Objectives

The objectives of the geo-environmental investigation are to:

- Undertake a preliminary stage of investigation and analysis to provide an overview of conditions identified;
- Assess the implications of any potential environmental risks, liabilities and development constraints associated with the site in relation to the future use of the site and in relation to off-site receptors;
- Assess the geotechnical information and provide preliminary recommendations in relation to foundations; and
- Outline conclusions and recommendations for additional works and/or remedial activities if appropriate.

1.4 Limitations

The limitations of this report are presented in Appendix I.

1.5 Confidentiality

REC has prepared this report solely for the use of the Client and those parties with whom a warranty agreement has been executed, or with whom an assignment has been agreed.

Should any third party wish to use or rely upon the contents of the report, written approval must be sought from REC; a charge may be levied against such approval.

2.0 SITE INVESTIGATION

2.1 Desk Study Information

Potential contamination sources have been identified from the desk study undertaken by REC Ltd in March 2014 ('Phase I Geo-Environmental Desk Top Study, West Street, Sompting, West Sussex', ref: REC Report 20612, dated March 2014). The potential contamination sources identified from this study are listed in Table 2.1 below:

Table 2.1 Summary of Potential Contaminant Sources

Risk Description	Risk Classification
Potential for contamination on site	Low to moderate (Metals, herbicides and pesticides, Total Petroleum Hydrocarbons (TPH), Polycyclic Aromatic Hydrocarbons (PAH), Ground Gases)
Potential for contamination from off-site sources	Low (limited by ground conditions, Polychlorinated biphenyls (PCB), metals (As, Cd, Cr, Cu, Fe, Pb, Hg, Se, Ni) and ground gas (methane and carbon dioxide).
Site sensitivity	The site is considered to be located within a low to moderate sensitivity setting due to the following reasons: • Residential properties are located in close proximity; • Low level of surrounding industrial land uses; • Three historic landfills within a 500m radius of the site; • The surrounding drainage network, part of which is observed to feed into a primary water course from within the south east corner of the site, and; • The underlying geology comprising high permeability strata.
Risk of harm to human health during development	Low (without mitigation) reducing to very low
Risk of harm to human health during operation	Low (without mitigation) reducing to very low
Risk of pollution to groundwater	Low
Risk of pollution to surface water	Low
Risk of damage to building materials and services	Very low

All acronyms used within this report are defined in the Glossary presented in Appendix II.

2.2 Site Investigation

A ground investigation was designed to obtain the greatest coverage of the site and based on the findings of the desk study with exploratory holes advanced to target specific potential contaminant sources summarised in Table 2.1. The investigation has also been used to collect geotechnical information to assist in the design and construction of the proposed development.

2.2.1 Scope

The scope of intrusive works, as set out within the fee proposals (Ref: 20612/131129/L1 and Ref: 20612/140428/L1) and scoped by Persimmon Homes South Coast and REC, comprised the following:

- Three days window sampling to drill up to 15 window sample boreholes to a maximum depth of 5 m bgl.;
- Six (6 no.) cable percussive boreholes to a maximum depth of 15 m bgl;
- *In situ* testing through Standard Penetration Testing (SPT) within boreholes;
- Five days trial pitting using a JCB 3CX to excavate up to 50 locations to a depth of up to 3.5m bgl;
- Soakage testing in general accordance with BRE 365;
- *In situ* CBR Testing (utilising TRL DCP) over a period of three days within proposed roadways with additional sample collection of soils for laboratory CBR testing;
- Collection of soil samples for geotechnical, and if required, contamination testing, and;
- Installation of 10 gas and groundwater monitoring points.

Exploratory fieldwork was completed between 10th to 13th February and the 20th to 29th May 2014. The works are summarised in Table 2.2 below:

Table 2.2 Summary of Fieldwork

Location Hole	Potential Source/Rationale	Type	Maximum Depth (m bgl)	Monitoring Wells Response Zone (mbgl)
Window Sample Holes				
WS101 to WS115	To obtain information on shallow ground conditions for assessment of shallow foundations and confirm findings of initial conceptual site model.	Window Sample Hole	5.00	0.5 – 1.5 (WS113) 0.5 – 2.5 (WS106) 1.00 -4.00 (WS107) 1.00 – 5.00 (WS101, WS104, WS109, WS111, WS112)
Cable Percussive Hole				
BH101 – BH106	To obtain information on deeper ground conditions in order to provide information on piled foundations	Cable Percussive Borehole	19.5	-
Trial Pits and Soakaways				
19 positions between TP112 – TP146 SA1 – SA7	To obtain information on shallow ground conditions for assessment of shallow foundations and confirm findings of initial conceptual site model and also to obtain ground soakage rates for soakaway installations.	Trial Pit	3.7	-

Location Hole	Potential Source/Rationale	Type	Maximum Depth (m bgl)	Monitoring Wells Response Zone (mbgl)
DCP Locations				
DCP 101 – DCP 130	To obtain information of ground conditions to estimate a California Bearing Ratio.	Dynamic Cone Penetrometer	1.0	-

m bgl – metres below ground level.

The sample locations are illustrated in Figure 3 (Appendix III).

Soil samples for chemical analysis were collected at regular intervals in appropriate sampling containers. All samples were subsequently stored in cool boxes prior to submission to analytical laboratory. All samples were collected using appropriate PPE and sampling equipment that was cleaned at each sampling location. A detailed copy of REC Ltd sampling methodology, QA procedures and laboratory chain of custody forms can be provided upon request.

2.2.2 *In Situ* Standard Penetration Testing (SPT)

In situ geotechnical testing was conducted using the Standard Penetration Test (SPT). The results are shown in the borehole logs in Appendix IV and presented in Table 3.3.

2.2.3 *In Situ* Hand Shear Vane Testing

In situ Hand Shear Vane testing was undertaken within fine grained soils. The tests were undertaken using 19mm or 33mm shear vane paddle. The results and undrained shear strengths derived from testing are presented on the Engineering Logs in Appendix IV.

2.3 Laboratory Analysis

Details of chemical and geotechnical analysis are detailed further in section 2.3.1 and 2.3.2 below.

2.3.1 Chemical Analysis

Selected soil samples were submitted for a range of chemical analysis comprising the following:

- Asbestos fibres in soil;
- CLEA suite;
- Total Organic Carbon;
- Speciated Polycyclic Aromatic Hydrocarbons (PAH);
- Speciated (hydrocarbon bands) Total Petroleum Hydrocarbon (TPH);
- Herbicides and Pesticides.

Additionally if groundwater was encountered on site samples were submitted for a range of chemical analysis comprising the following:

- CLEA suite;
- Speciated PAH;
- TPH CWG.

Scientific Analysis Laboratories (SAL) Ltd undertook the analytical work in accordance with their UKAS accreditation where applicable. The testing results are included in Appendix V.

2.3.2 Geotechnical Analysis

Selected soil samples were submitted to Professional Soil Laboratory (PSL) where the following geotechnical tests were undertaken:

- Moisture Content Determination
- Atterberg Limits Determinations (including moisture content); and:
- Quick undrained (Cu) triaxial test; and
- Chemical testing for assessing concrete aggressivity.

The testing results are included in Appendix VI and discussed in Section 5.

3.0 GROUND AND GROUNDWATER CONDITIONS

3.1 Ground Conditions

3.1.1 Summary of Ground Conditions

The ground investigation generally confirmed the published geology and identifies the strata set out in Table 3.1 below:

Table 3.1 Summary of Strata

Strata	Min Depth to Top of Strata (mbgl)	Max Depth to Top of Strata (mbgl)	Max Thickness (m)
Made Ground	Ground Level	Ground Level	0.70 (CP105)
Head Deposits (Superficial)	0.02 (CP103)	0.70 (CP101)	8.98 (CP101)
Tarrant Chalk Member (Bedrock)	1.70 (WS114)	9.00 (CP101)	>14.60 (CP106 - Base not proven)

3.1.1.1 Made Ground

Made Ground was encountered within all intrusive locations to a maximum proven depth of 0.70 m bgl (CP101). This unit was generally variable in composition comprising both fine and coarse grained soils. Coarse grained soils typically comprised dark slightly clayey sandy GRAVEL. Sand was coarse grained with gravel comprising angular, fine to coarse flints with occasional brick. Fine grained soils typically comprised dark brown slightly gravelly sandy silty CLAY.

3.1.1.2 Drift Deposits

Head Deposits (HD)

The Head Deposits were encountered in all intrusive locations to a maximum depth of 9.00 m bgl (CP101). This stratum was highly variable in composition and consistency comprised both fine and coarse grained soils. Coarse grained soils typically comprised light brown slightly sandy clayey GRAVEL and soft to firm CLAY / SILT with variable quantities of sand and gravel.

3.1.1.3 Bedrock

Tarrant Chalk Member (TC)

The Tarrant Chalk member was encountered at depths ranging between 1.70 and 9.00mbgl and was recovered as creamy off white putty chalk due to the percussive nature of the window sampling and cable percussive sampling method.

3.1.1.4 Obstructions and Ground Stability

Some instability was noted within the exploratory hole locations detailed overleaf:

Table 3.2 Details of Hole Stability

Hole No.	Details
TP120	Pit Collapse to 1.20 due to gravel strata
TP123	Pit Collapse to 2.10 due to gravel strata
WS105	End of hole at 4.00 due to collapse
WS108	End of hole at 4.00 due to collapse
WS113	End of hole at 3.00 due to collapse
WS114	End of hole at 3.00 due to collapse

3.1.2 In-situ Testing

Undrained shear strength values of the fine grained soils were determined using in-situ SPT testing using the empirical correlation using SPT N value x 4.5 and quick undrained laboratory triaxial tests. Relative densities in coarse grained soils were also determined from SPT N values. Results of these tests are presented in Table 3.3 below.

Table 3.3 Determination of Undrained Shear Strength (Cu) and Relative Density

Hole No.	Depth (m bgl)	Material Field Description	SPT "N" Value	Soil Strength (BS5930) / Relative Density	Quick Undrained Triaxial Test Results (Cu)	Undrained Shear Strength derived from SPTs (kN/m^2)
WS101	1.0	HD	12	Medium	N/A	54
	2.0	HD	14	Medium	N/A	63
	3.0	HD	9	Medium	N/A	40
	4.0	HD	14	Medium	N/A	63
WS102	1.0	HD	13	Medium	N/A	58.5
	2.0	HD	14	Medium	N/A	63
	3.0	HD	24	High	N/A	108
	4.0	HD	32	High	N/A	144
WS103	1.0	HD	5	Low	N/A	22.5
	2.0	HD	5	Low	N/A	22.5
	3.0	HD	4	Very Low	N/A	18
	4.0	HD	5	Low	N/A	22.5
WS104	0.5	HD	N/A	Medium	40	N/A
	2.0	HD	19	High	N/A	85.5
	3.0	HD	11	Medium	N/A	49.5
	4.0	HD	15	Medium	N/A	67.5
WS105	1.0	HD	3	Very Low	N/A	13.5
	2.0	HD	32	High	N/A	144
	3.0	HD	24	High	N/A	108
	4.0	HD	20	Medium dense	N/A	N/A

Hole No.	Depth (m bgl)	Material Field Description	SPT "N" Value	Soil Strength (BS5930)	Quick Undrained Triaxial Test Results (Cu)	Undrained Shear Strength derived from SPTs (kN/m^2)
WS106	0.7	HD	N/A	Low	30	N/A
	1.0	HD	8	Low	N/A	36
	2	HD	3	Very Low	N/A	13.5
	3	HD	4	Very loose	N/A	N/A
	4	HD	9	Loose	N/A	N/A
WS107	1	HD	8	Low	N/A	36
	1.6	HD	N/A	Medium	60	N/A
	2	HD	7	Low	N/A	31.5
	2.7	HD	N/A	Low	20	N/A
	3	HD	14	Medium	N/A	63
	4	HD	14	Medium	N/A	63
WS108	1	HD	4	Very Low	N/A	18
	2	HD	5	Loose	N/A	N/A
	3	HD	14	Medium	N/A	63
	4	HD	29	Very High	N/A	130.5
WS109	1	HD	5	Low	N/A	22.5
	1.5	HD	N/A	High	80	N/A
	2	HD	5	Low	N/A	22.5
	3	HD	14	Medium	N/A	63
	4	TC	3	Very Low	N/A	13.5
WS110	1	HD	7	Low	N/A	31.5
	1.50	HD	N/A	Medium	55	N/A
	2	HD	11	Medium	N/A	49.5
	3	HD	29	Medium dense	N/A	N/A
	4	HD	37	Very High	N/A	166.5
WS111	1	HD	8	Low	N/A	36
	1.50	HD	N/A	Medium	N/A	60
	2	HD	9	Medium	N/A	40
	3	HD	24	High	N/A	108
	4	HD	27	High	N/A	121.5
WS112	1	HD	9	Medium	N/A	40
	1.50	HD	N/A	High	90	N/A
	2	HD	4	Very Low	N/A	18
	3	HD	19	High	N/A	85.5
	4	HD	25	High	N/A	112.5
WS113	1	HD	11	Medium	N/A	49.5
	2	HD	17	High	N/A	76.5
	3	TC	7	Low	N/A	31.5
WS114	1	HD	8	Low	N/A	36
	2	TC	8	Low	N/A	36
	3	TC	2	Very Low	N/A	9
WS115	1	HD	8	Low	N/A	36
	2	HD	3	Very Low	N/A	13.5

	3	HD	17	High	N/A	76.5
CP101	1.2	HD	18	High	N/A	81
	2.2	HD	29	High	N/A	130.5
	3.2	HD	50	Very High	N/A	225
	4.2	HD	22	High	N/A	99
	5.2	HD	20	High	N/A	90
	6.5	HD	23	High	N/A	103.5
CP102	1.2	HD	17	High	N/A	76.5
	2.2	HD	30	High	N/A	135
	3.2	HD	14	Medium	N/A	63
	4.2	HD	14	Medium	N/A	63
	5.2	HD	18	High	N/A	81
	6.5	HD	15	Medium	N/A	67.5
	8.0	HD	27	High	N/A	121.5
CP103	1.2	HD	16	Medium	N/A	72
CP104	1.2	HD	18	High	N/A	81
	2.2	HD	20	Medium Dense	N/A	N/A
	3.2	HD	16	Medium Dense	N/A	N/A
CP105	1.2	HD	21	Medium Dense	N/A	N/A
	2.2	HD	15	Medium Dense	N/A	N/A
	3.2	HD	13	Medium Dense	N/A	N/A
	4.2	HD	12	Medium Dense	N/A	N/A
	5.2	HD	18	Medium Dense	N/A	N/A
CP106	1.2	HD	14	Medium	N/A	63
	3.0	HD	10	Medium	N/A	45
	4.0	HD	19	Medium	N/A	86

Key; HD – Head Deposits, TC – Tarrant Chalk, N/A – Not applicable

The results above would indicate that the undrained shear strength of the fine grained head deposits ranged generally between medium and high strength with a characteristic value of 50kN/m^2.

Coarse grained soils were generally medium dense, although were recorded locally as loose especially close to the water table. However, a characteristic SPT N value of 10 (medium dense) could be considered for the scheme.

3.1.3 pH and Sulphate

Chemical analyses for pH and soluble sulphate content contained in Appendix V (summarised below in Table 3.4), shows that the soils at the site generally meet Class DS-1, Aggressive Chemical Environment for Concrete Classification (ACEC) AC-1 in accordance with BRE Special Digest 1 (2005) and assuming mobile groundwater.

Table 3.4 Summary of pH and Sulphate Data

Location	Depth (m)	SO_4 in 2:1 water / soil (g/l)	pH Value	Total SO_4 (%)	DS and ACEC Class
BH101	6.0	0.01	8.6	-	DS-1 / AC-1
BH102	0.5	0.01	6.7	0.04	DS-1 / AC-1
BH103	1.0	0.02	6.8	0.03	DS-1 / AC-1
BH104	12.0	0.02	8.8	-	DS-1 / AC-1
BH105	15.5	0.02	8.9	-	DS-1 / AC-1
BH106	19.5	0.02	8.9	-	DS-1 / AC-1
TP133	0.5	0.02	7.0	0.02	DS-1 / AC-1
TP123	0.7	0.01	6.5	0.05	DS-1 / AC-1
TP134	0.3	0.01	6.0	0.04	DS-1 / AC-1
TP141	0.5	0.01	7.2	0.06	DS-1 / AC-1
WS101	0.3	0.02	7.3	0.09	DS-1 / AC-1
WS103	0.8	0.01	7.2	0.04	DS-1 / AC-1
WS105	0.4	0.01	7.8	0.07	DS-1 / AC-1
WS107	0.7	0.01	8.1	0.02	DS-1 / AC-1
WS109	0.2	0.01	6.5	0.05	DS-1 / AC-1
WS111	0.5	0.01	7.1	0.04	DS-1 / AC-1
WS113	0.3	0.17	9.0	0.23	DS-1 / AC-1
WS102	1.8	0.01	7.1	-	DS-1 / AC-1
WS104	2.8	<0.01	8.2	-	DS-1 / AC-1
WS106	3.2	0.01	8.9	-	DS-1 / AC-1
WS108	2.7	0.01	9.0	-	DS-1 / AC-1
WS110	4.7	<0.01	9.0	-	DS-1 / AC-1
WS112	1.3	0.01	8.1	-	DS-1 / AC-1

3.1.4 Soil Plasticity

Atterberg Limits determinations, summarised in Table 3.5 below, indicate the clay to be of medium to high plasticity and low to medium volume change potential.

Table 3.5 Summary of Plasticity Index Test Results

Location	Depth (m)	Natural Moisture Content (%)	Plastic Limit (%)	Liquid Limit (%)	Plasticity Index (%)	Percentage passing 425µm sieve (%)	Modified Plasticity Indices	Volume Change Potential
WS101	1.3	16	-	-	-	-		-
WS102	2.7	14	-	-	-	-		-
WS103	3.4	15	22	41	19	38	7	Low
WS104	4.6	24	27	64	37	100	37	Medium
WS106	1.0	19	21	38	17	82	14	Low
WS107	0.7	21	20	38	18	96	17	Low
WS108	3.8	10	-	-	-	-		-
WS109	2.3	19	20	36	16	83	13	Low
WS110	4.2	6.1	-	-	-	-		-
WS111	1.5	21	21	37	16	97	16	Low
BH101	8.0	19	-	-	-	-		-
BH103	1.7	11	17	34	17	58	10	Low
BH106	2.0	14	17	34	17	62	11	Low

3.1.5 California Bearing Ratio (CBR) Testing

California Bearing Ratio (CBR) was measured in-situ by tests using a Dynamic Cone Penetrometer (DCP). Tests were carried out at locations DCP101 to DCP130. CBR results determined are presented in Table 3.6 below with the *in situ* tests calculated based on a number of blows and penetration between ground level and the base of the test.

Table 3.6 Results of *In situ* CBR Testing

Test	Max Test Depth (m bgl)	*In Situ* CBR Result from DCP testing (%)
DCP101	0.997	10
DCP102	0.987	6
DCP103	0.986	10
DCP104	0.993	7
DCP105	0.994	11
DCP106	0.895	18
DCP107	0.995	25
DCP108	0.788	47
DCP109	0.904	8
DCP110	0.927	8
DCP111	0.650	10
DCP112	0.588	23
DCP113	0.652	15
DCP114	0.616	7
DCP115	0.620	15

Test	Max Test Depth (m bgl)	*In Situ* CBR Result from DCP testing (%)
DCP116	0.647	15
DCP117	0.880	4
DCP118	0.909	80
DCP119	0.735	7
DCP120	0.671	6
DCP121	0.694	7
DCP122	0.564	12
DCP123	0.771	8
DCP124	0.686	14
DCP125	0.662	6
DCP126	0.552	10
DCP127	0.684	42
DCP128	0.681	7
DCP129	0.505	8
DCP130	0.606	4

3.1.6 Particle Size Distribution

Six particle size distribution tests by wet sieve analysis were undertaken on selected soil samples and the results are presented in Table 3.7.

Table 3.7 PSD Summary

Location	Depth (m)	Granulometric Composition (%)			
		Clay/Silt	Sand	Gravel	Cobbles
BH105	6.00	29	31	40	0
SA1	2.00	58	23	19	0
TP135	2.10	16	7	68	9
WS101	1.30	62	20	18	0
WS108	3.80	24	26	50	0
WS110	4.2	45	26	29	0

3.1.7 Soil Infiltration

Seven soil infiltration tests were undertaken within locations SA1 to SA7 inclusive in order to obtain indicative information on soil infiltration. Results are presented in Table 3.8 below:

Table 3.8 Soil Infiltration Results

Location	Trial Pit Depth (m bgl)	Material	Permeability Rate (m/s)
SA1	2.00	Head Deposits	9.38E-06
SA2	2.00	Head Deposits	5.24E-05
SA3	2.00	Head Deposits	2.36E-05
SA4	2.00	Head Deposits	1.53E-04
SA5	2.00	Head Deposits	7.62E-05
SA6	2.00	Head Deposits	9.87E-06
SA7	2.00	Head Deposits	3.39E-05

The calculated permeability rates indicate relatively good drainage conditions across the site. Given the coarse grained nature of the soils tested, it is considered possible that soakaway drainage could be adopted for the proposed scheme; however the application of soakaway drainage will ultimately be dependent on the specific requirements of the development. All soakaways should be designed in accordance with BRE Special Digest 365 – *Soakaway Design*.

3.2 Groundwater Conditions

During the original site investigation in February 2014 groundwater seepages were noted within window sample locations WS104, WS105, WS106, WS107, WS108, WS109, WS111, WS113 and WS114 at depths ranging between 1.20mbgl and 4.00mbgl, although at depths generally greater than 2.20mbgl.

The cable percussive locations carried out in May 2014 all encountered groundwater at depths ranging between 6.50 m bgl and 13.50 m bgl. No groundwater was encountered within the trial pits during the work undertaken in May 2014.

3.3 Land Gas and Groundwater Monitoring

Concentrations of methane (CH_4), carbon dioxide (CO_2) and Oxygen (O_2) were measured using an infra-red gas analyser (GFM435) calibrated to a reference standard (before and after each survey) and gas flow rates were measured using an internal flow pod.

Gas measurements were recorded for a minimum of ninety seconds at each location, at which point the maximum concentration of CH_4 and CO_2 together with the lowest concentration of O_2 were recorded. The results of the ground gas monitoring are presented in Appendix VIII.

4.0 TIER II GENERIC QUANTITATIVE CONTAMINATED LAND RISK ASSESSMENT

REC has undertaken a Tier II qualitative risk assessment to determine if any potential contaminants within the underlying soils and groundwater pose an unacceptable level of risk to the identified receptors.

4.1 Human Health Risk Assessment

At a Tier II stage, the long term (chronic) toxicity risk to human health is assessed by utilising appropriate and conservative generic assessment criteria (GAC) to determine whether there are actual or potential unacceptable risks at the site and if any viable pollutant linkages are present.

To undertake the Tier II assessment within the context of the proposed development, REC has determined that the most appropriate GAC values available will be those based residential with plant uptake with a soil organic matter of approximately 1.0%.

The following assessment, summarised below and overleaf in Table 4.1, has primarily adopted the S4UL (Suitable for Use Levels reference values published by LQM/CIEH in 2015, the S4ULs). Currently, no published GAC value is available for cyanide and therefore REC has utilised the Environmental Agency Contaminated Land Exposure Assessment Tool (CLEA v1.06) to derive the relevant GAC for this proposed land use. Due to the absence of a published lead GAC for direct use within the planning regime, the 2014 Defra C4SL (Category 4 Screening Level) has been used as this value is considered to incorporate the latest toxicological, bio-accessibility and exposure modelling research to date.

Table 4.1 Summary of Generic Human Health Toxicity Assessment for Residential with Plant Uptake with Soil Organic Matter (SOM) of approximately 1.0%.

Determinand	Units	GAC	GAC Source	n	MC	Loc. of Ex	Pathway	Assessment
Inorganics								
Arsenic	mg/kg	37	(i)	13	15	N/A	1	No Further Action
Cadmium	mg/kg	11	(i)	13	0.8	N/A	1	No Further Action
Chromium (VI)	mg/kg	6.0	(i)	13	<1	N/A	1	No Further Action
Lead	mg/kg	200	(iv)	13	110	N/A	1	No Further Action
Mercury (inorganic)	mg/kg	40	(i)	13	<1.0	N/A	1	No Further Action
Nickel	mg/kg	180	(i)	13	34	N/A	1	No Further Action
Selenium	mg/kg	250	(i)	13	<3	N/A	1	No Further Action
Copper	mg/kg	2,400	(i)	13	23	N/A	1	No Further Action
Zinc	mg/kg	3,700	(i)	13	240	N/A	1	No Further Action
Cyanide - Total	mg/kg	3.4	(v)	13	<1	N/A	1	No Further Action
Asbestos	-	D	-	11	N.D	N/A	3	No Further Action
Organics								
Phenols - Total	mg/kg	280	(ii)	17	<0.5	N/A	5	No Further Action
Naphthalene	mg/kg	2.3	(ii)	10	0.2	N/A	4	No Further Action
Acenaphthylene	mg/kg	170	(ii)	10	0.5	N/A	1	No Further Action
Acenaphthene	mg/kg	210	(ii)	10	0.3	N/A	1	No Further Action
Fluorene	mg/kg	170	(ii)	10	0.2	N/A	1	No Further Action
Phenanthrene	mg/kg	95	(ii)	10	4.0	N/A	1	No Further Action
Anthracene	mg/kg	2,400	(ii)	10	1.6	N/A	1	No Further Action
Fluoranthene	mg/kg	280	(ii)	10	14	N/A	1	No Further Action
Pyrene	mg/kg	620	(ii)	10	17	N/A	1	No Further Action
Benzo(a)Anthracene	mg/kg	7.2	(ii)	10	**10**	**WS113**	**1**	**Further Action**
Chrysene	mg/kg	15	(ii)	10	**15**	**WS113**	**1**	**Further Action**
Benzo(b/k)Fluoranthene	mg/kg	2.6	(ii)	10	**29**	**WS113**	**1**	**Further Action**
Benzo(a)Pyrene	mg/kg	2.20	(ii)	10	**17**	**WS113**	**1**	**Further Action**
Indeno(123-cd)Pyrene	mg/kg	27	(ii)	10	13	N/A	1	No Further Action
Dibenzo(a,h)Anthracene	mg/kg	0.24	(ii)	10	**5.4**	**WS113**	**1**	**Further Action**
TPH C_5-C_6	mg/kg	42	(iii)	5	<0.10	N/A	1	No Further Action
TPH C_6-C_8	mg/kg	100	(iii)	5	<0.10	N/A	4	No Further Action
TPH C_8-C_{10}	mg/kg	27	(iii)	5	<0.10	N/A	4	No Further Action
TPH C_{10}-C_{12}	mg/kg	74	(iii)	5	<2	N/A	4	No Further Action
TPH C_{12}-C_{16}	mg/kg	140	(iii)	5	<2	N/A	1, 4	No Further Action
TPH C_{16}-C_{21}	mg/kg	260	(iii)	5	190	N/A	1	No Further Action
TPH C_{21}-C_{35}	mg/kg	1,100	(iii)	5	470	N/A	1	No Further Action

Notes
Abbreviations: GAC = General Assessment Criteria, n = number of samples, MC = Maximum Concentration; Loc of Ex = Location of Exceedance.

Primary Pathways
1 Ingestion of soil and indoor dust and / or oral background exposure;
2 Consumption of home-grown produce and attached soil;
3 Inhalation of dust (background and indoor);
4 Inhalation of vapour (background and indoor);
5 Direct dermal / skin contact.

Generic Assessment Criteria (GAC) Source
(i) LQM/CIEH Suitable For Use Level (S4UL) (2015);
(ii) S4UL – Conservative Assessment Approach of 1% SOM;
(iii) S4UL – 1% SOM and assumed worst case aliphatic / aromatic compound;
(iv) Defra Category 4 Screening Level (2014); and,
(v) CLEA 1.06 Derived Value.

Referring to Table 4.1, the results of the direct comparison show that screening values have been exceeded for the following determinants:

- Benzo(a)anthracene
- Chrysene
- Benzo(b/k)fluoranthene
- Benzo(a)pyrene
- Dibenzo(a,h)anthracene

Asbestos was not detected within the near surface soils submitted for analysis.

Elevated concentrations were identified at 0.3m bgl within the made ground at WS113 intrusive location. The area in which the window sample location was situated was within the smaller south eastern paddocks. These paddocks were noted as having a high anthropogenic impact with old vehicles and waste stored on site. This is considered to be the source of the concentrations.

The main pollution linkage in relation to the risk to human health from the identified concentrations is ingestion of soil and indoor dust and / or oral background exposure in the case of benzo(a)anthracene, chrysene, benzo(b/k)fluoranthene, benzo(a)pyrene and dibenzo(a,h)anthracene.

The identified concentrations also have the potential to present a significant risk to construction workers.

4.2 Controlled Waters

REC have undertaken an assessment of the potential risk to controlled waters through collection of samples, and subsequent risk assessment. This is presented in Table 4.2 over page.

Table 4.2 Summary of Inorganic and Hydrocarbon Toxicity Assessment Tier II Controlled Water Screening Values

Determinand	Units	Surface Fresh Water Screening Values	Ground Water Screening Values	Drinking Water Screening Values	n	MC	Location of Exceedance	Assessment
Inorganics								
Arsenic	µg/l	50	5(6)	10	4	1.9	N/A	No Further Assessment
Boron	µg/l	2,000	-		4	120	N/A	No Further Assessment
Cadmium	µg/l	0.25	-	5	4	0.09	N/A	No Further Assessment
Chromium	µg/l	3.4	-	50	4	1	N/A	No Further Assessment
Copper*	µg/l	1	-	2,000	4	3.6	**WS102, WS106, WS109 & WS113**	**Further Assessment**
Lead	µg/l	1.2	5(6)	10	4	0.6	N/A	No Further Assessment
Mercury	µg/l	0.07	0.5(6)	1	4	<0.05	N/A	No Further Assessment
Nickel	µg/l	4.0	-	20	4	11	**WS102, WS106, WS109 & WS113**	**Further Assessment**
Selenium	µg/l	-	-	10	4	3.2	N/A	No Further Assessment
Zinc	µg/l	10.9(1)	-	5,000(3)	4	8	N/A	No Further Assessment
Organics								
PAH	µg/l	0.0017(2)	-	0.1(5)	3	2.7	**WS102, WS106, WS109 & WS113**	**Further Assessment**
Napthalene	µg/l	2	-	-	3	0.13	N/A	No Further Assessment
Benzo(a)pyrene	µg/l	0.27(2)	0.005(6)	0.03(3)	3	0.07	**WS113**	**Further Assessment**
benzo[b/k]-fluoranthene	µg/l	0.017	0.05(6)	-	3	0.16	**WS113**	**Further Assessment**
benzo[g,h,i]-perylene & indeno(1,2,3-cd]pyrene	µg/l	0.0082(2)	0.05(6)	-	3	0.13	**WS113**	**Further Assessment**
Benzene	µg/l	10	0.5(6)	1	1	<1	N/A	No Further Assessment
Toluene	µg/l	74	350(6)	700	1	<1	N/A	No Further Assessment
Ethyl Benzene[1]	µg/l	20	-	300	1	<1	N/A	No Further Assessment
Xylenes	µg/l	30	-	500	1	3	N/A	No Further Assessment
MTBE	µg/l	-	-	15	1	<1	N/A	No Further Assessment
Total Petroleum Hydrocarbons##	µg/l	-	-	-	1	<10	N/A	No Further Assessment
TPH Aliphatic C5-C6	µg/l	-	-	1(4)	1	<10	N/A	No Further Assessment

TPH Aliphatic C6-C8	µg/l	-	-	1(4)	1	<10	N/A	No Further Assessment
TPH Aliphatic C8-C10	µg/l	-	-	300(4)	1	<10	N/A	No Further Assessment
TPH Aliphatic C10-C12	µg/l	-	-	300(4)	1	<10	N/A	No Further Assessment
TPH Aliphatic C12-C16	µg/l	-	-	300(4)	1	<10	N/A	No Further Assessment
TPH Aliphatic C16-C35	µg/l	-	-	300(4)	1	<10	N/A	No Further Assessment
TPH Aromatic C6-C7	µg/l	-	-	-	1	<10	N/A	No Further Assessment
TPH Aromatic C7-C8	µg/l	-	-	700(4)	1	<10	N/A	No Further Assessment
TPH Aromatic C8-C10	µg/l	-	-	300(4)	1	<10	N/A	No Further Assessment
TPH Aromatic C10-C12	µg/l	-	-	90(4)	1	<10	N/A	No Further Assessment
TPH Aromatic C12-C16	µg/l	-	-	90(4)	1	<10	N/A	No Further Assessment
TPH Aromatic C16-C21	µg/l	-	-	90(4)	1	<10	N/A	No Further Assessment
TPH Aromatic C21-C35	µg/l	-	-	90(4)	1	<10	N/A	No Further Assessment

Key:
(1) Water Framework Directive – EQS Specific Pollutant
(2) Water Framework Directive – EQS for priority Hazardous Substances. Annual Average concentration unless otherwise stated. MAC = Maximum Admissible Concentration.
(3) Drinking Water Screening Values – The Water Supply (Water Quality) Regulations 2016
(4) WHO DWS for TPH (2008)
(5) Total PAHs
(6) UKTAG definition for hazardous substances, UK Technical Advisory Group on the Water Framework Directive Technical report on Groundwater Hazardous Substances, 11b(iii) v12 , Final version for website. Annual mean value.

Laboratory analyses of water samples were undertaken and the results showed elevated levels of inorganics such as copper and nickel in WS102, WS106, WS109 and WS113. Elevations of organics such as benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)-fluoranthene, benzo(ghi)perylene and ideno(123-cd)pyrene were also found within WS113 and PAHs within WS102, WS106, WS109 and WS113, above Controlled Water Screening Levels.

Reference is made to the field notes, which indicate that the obtained sample was cloudy, indicative of suspended solids. It is considered that these concentrations can be attributed to the suspended solids originating from the near surface soils, and are not therefore indicative of dissolved phase organic material. Where concentrations are attributed to suspended solids the concentrations are immobile, and therefore do not present a risk to the aquifer.

Furthermore, during the trial pitting across the site, groundwater was not encountered in the near surface indicating that groundwater bodies are isolated, further supporting the view that any identified concentrations will not migrate to the aquifer.

4.3 Ground Gas

The Phase I report and subsequent ground investigation has identified the following potential sources of ground gas:

- Historic Gravel Pits (~168m & 216m east of site); and;
- Historic Made Ground associated with on-site development.

The potential impact on the development from ground gases has been assessed with reference to standards and guidelines published within BS 8485:2015. However, it is recommended that a full ground gas assessment and recommended protection measures are agreed with the local authority prior to their adoption on-site. Furthermore, all protection measures adopted should be validated by a suitably qualified engineer.

In accordance with the methodology outlined within BS8485:2015, REC have utilised the results of the ground gas monitoring surveys to calculate a tentative borehole hazardous gas flow rate (Qhg), previously known as a Gas Screening Value (GSV).

4.3 Ground Gas Assessment

Flow rate (L/h)	Maximum CH_4 (%)	Maximum CO_2 (%)	CH_4 Qhg (L/h)	CO_2 Qhg Rate (L/h)	Implied CH_4 CS	Implied CO_2 CS
2.9	0.20	2.0	0.0058	0.058	1	1

CS : Characteristic Situation
Qhg : Hazardous gas flow rate

The maximum implied characteristic situation for the site has therefore been calculated by combining the maximum observed flow rate and maximum observed concentrations during any monitoring event. This methodology provides a 'worst case scenario' in order to characterise the highest potential risk to human health from ground gas at the site.

On the basis of measurements in Table 4.3, the maximum site hazardous gas flow rate is considered to be <0.058 L/h, which is the worst case for both methane and carbon dioxide. A maximum site hazardous gas flow rate of <0.058 L/h lies well within the range of GSV values for CS1 (<0.07 L/h). As such, the gas regime for the site can be classified as Characteristic Situation 1 (CS1) based on the limited monitoring visits undertaken.

It is therefore considered that no gas protection measures are required to be installed within the proposed development, based on the data available.

However, this assessment is based on three return visits; it is recommended that further gas monitoring is undertaken ahead of adoption of the measures detailed above.

4.4 Revised Conceptual Model

Following the completion of the intrusive site investigation, chemical analysis and risk assessment the conceptual model shown in Table 4.3 has been prepared for the site.

Table 4.3 Revised Conceptual Site Model

Source	Exposure Pathway	Potential Receptor	Probability of Exposure	Discussion of Pollutant Linkage
Human Health				
Localised concentrations within the made ground of WS113: - Benzo(a)anthracene - Chrysene - Benzo(b/k)fluoranthene - Benzo(a)pyrene - Dibenzo(a,h)anthracene	Dermal contact and ingestion	Future Residents	Low	Given the proposed development, there is the potential for the pollution linkage to be active. As such further assessment should be undertaken in this area. It is likely that remedial action would be required, in the form of a capping layer, although this should be revisited post additional investigation.
		Construction Workers	Low	Consideration of the risk should be undertaken during the COSHH assessment for site developments. Measures should include good site hygiene and PPE.

A large area was added to the proposed site boundary in 2017. This area has not been investigated by REC and does not form part of this report. It is recommended that an additional site investigation is carried out to suitably characterise this part of the site.

5.0 GEOTECHNICAL ASSESSMENT

5.1 Proposed Development

Persimmon Homes South Coast are looking to develop a green field site located to the north and south of West Street, Sompting, West Sussex. It is understood that a residential development comprising 520 residential properties with associated infrastructure and soft landscaping is proposed.

No geotechnical assessment has been made of the large area added to the proposed site development boundary in 2017.

5.2 Summary of Ground Conditions

In summary, ground conditions comprised a relatively thin veneer of Made Ground, overlying fine and coarse grained Head Deposits to a maximum depth of 8.98mbgl overlying Tarrant Chalk Member which was encountered at depths ranging between 1.70 and 9.00mbgl. This stratum persisted to the full depth of the investigation.

Groundwater was encountered during the intrusive works only as seepages within the window sample locations between 1.20 m bgl and 4.00 m bgl during the first phase of works in February 2014 and as strikes within the cable percussion locations between 6.50 m bgl and 13.50 m bgl during the works carried out in May 2014.

5.3 Foundation Conditions

It is considered that the Made Ground is not suitable for a founding material due to the inherent variability of the material, which could cause varied total and differential settlements. Conventional foundations (pad or strip) or piled foundations could be adopted as discussed further below:

Conventional Foundations

Conventional foundations could be adopted for the proposed development bearing into the generally soft to firm CLAY / medium dense SAND of the Head Deposits encountered across the site beneath the Made Ground.

Based on a typical undrained shear strength of 50kN/m^2 derived from SPT's and hand shear vanes and a relative density of medium dense in coarse grained soils, allowable bearing capacities for conventional shallow foundations (pad or strip) in the range of 100 kN/m^2 could be achieved limiting total settlement to less than 25mm.

Consideration will need to be given to potential differential settlements caused as a result of bearing onto both fine and coarse grained soils of the Head Deposits.

NHBC Chapter 4.2 Building Near Trees recommends that a minimum founding depth of 0.90mbgl in fine grained soils be adopted for soils of moderate volume change potential in the absence of any existing or proposed tree planting.

Foundations will also need to be deepened should any soft spots or soils different to the above be encountered during construction.

Deeper Piled Foundations

For preliminary purposes the following initial pile carrying capacities have been calculated. When undertaking these preliminary calculations the following parameters have been used:

- SPT's and hand shear vane tests as summarised in Tables 3.3;
- Adhesion Factor of 0.60 for CFA piles;
- Factors of safety of 1.5 on side resistance and 3 on base resistance;
- Global Factor of safety of 2.5;
- Soil parameters in derived from CP102; and
- Chalk parameters in accordance with CIRIA C574.

Table 5.2 Preliminary Pile Carrying Capacity

Depth	Pile Carrying Capacity (kN)		
	300mm dia	450mm dia	600mm dia
10.0	180	330	530
15.0	290	500	750

On the basis of the illustrative calculations, settlements are likely to be within permissible tolerances. Working capacities for pile groups should be assessed when final design details are known, although for preliminary design purposes it is likely that piles spaced at least 3 x pile diameter from other piles in any group will behave as single piles.

The above calculated values are presented for indicative purposes only. Where preliminary and working pile load tests are undertaken it may be appropriate to reduce safety factors.

In consideration of prevailing ground conditions alone, a choice of pile type of various lengths and diameters can be designed to bear into the strata encountered beneath the site. However general site conditions, environs and proximity to adjacent extant structures and foundations are all influential in the choice of piling system.

It should be noted that for CFA piles there are certain practical constraints when considering the incorporation of large amounts of pile reinforcement and also their emplacement in the ground with potential obstructions. There is also the risk of collapse or necking of the pile bore should the flights be withdrawn and the hole left unsupported. For these reasons it is recommended that a competent and experienced specialist piling contractor undertakes all piling works, adopting appropriate controls and that their advice should be sought at the earliest opportunity in order to confirm the method type and indicative capacities detailed above.

5.4 Ground Floor Slabs

Ground bearing floor slabs incorporated with shallow foundations could be adopted where they are lightly loaded, with the Made Ground stripped to the surface of the Head Deposits and replaced with uniform granular fill. Any soft spots should be removed and replaced with uniform granular fill. As with the foundations, consideration should be given to potential differential settlement effects caused by bearing onto both fine and coarse grained soils. For piled foundations, it is assumed that a suspended floor slab will be adopted.

It is recommended that advice should be sought from a suitably qualified structural engineer with regard to the design and construction of the floor slabs.

5.5 Concrete Durability

Based upon the results of the chemical analyses summarised in Table 3.4 it is considered that subsurface concrete can be designed in accordance with Design Sulphate Class DS-1,

Aggressive Chemical Environment for Concrete Classification (ACEC) AC-1d in accordance with the recommendations provided in BRE Special Digest 1 (2005).

5.6 Excavations

Site observations indicated that excavations should be feasible within the near surface with normal machinery. Some of the exploratory holes indicated the potential for collapse within coarse grained soils and as such these made need supporting during construction.

It is recommended that where man entry into excavations deeper than 1.20 m is required that either; excavations are shored or that the sides of excavations are battered to a safe angle of repose.

5.7 Construction Activity and Inspection

The following activities and inspections should be incorporated in to the site works:

- Due to the variability of the soils at the site it is recommended that sufficient allowance is made for the inspection of formation and sub formations to foundations;
- Given the presence of fine grained soils near surface, excavations should be protected in to prevent potential softening effects caused by periods of wet weather;
- Excavations where access is required should be subject to a risk assessment from a competent person and where appropriate mitigation measures such as benching back the sides or use of support systems in accordance with CIRIA 97 utilised; and
- The presence of potential contamination and mitigation measures should be addressed as part of the Construction Stage Health and Safety Plan and should include measures to design out the risks, reduce their impact and finally the use of Personnel Protective Equipment (PPE).

5.8 Roads and Pavements

With reference to the in situ DCP's undertaken, average CBR values of 10% were indicated. However, consideration should be given to fine grained soils being encountered near surface, and as such a lower design CBR value of 4% should be considered based on Atterburg Limit results.

As with good construction practice it is recommended the formation level be inspected and that any areas of soft/loose deleterious strata are replaced with an appropriately compacted coarse grained medium. Likewise, any hard spots (such as old foundations) should also be removed to guard against reflective cracking in the pavement. Proof rolling/compaction of the formation level should be carried out prior to laying the new pavement.

END OF REPORT

APPENDIX I

LIMITATIONS

1. This report and its findings should be considered in relation to the terms of reference and objectives agreed between REC Ltd and the Client as indicated in Section 1.2.

2. For the work, reliance has been placed on publicly available data obtained from the sources identified. The information is not necessarily exhaustive and further information relevant to the site may be available from other sources. When using the information it has been assumed it is correct. No attempt has been made to verify the information.

3. This report has been produced in accordance with current UK policy and legislative requirements for land and groundwater contamination which are enforced by the local authority and the Environment Agency. Liabilities associated with land contamination are complex and requires advice from legal professionals.

4. During the site walkover reasonable effort has been made to obtain an overview of the site conditions. However, during the site walkover no attempt has been made to enter areas of the site that are unsafe or present a risk to health and safety, are locked, barricaded, overgrown, or the location of the area has not be made known or accessible.

5. Access considerations, the presence of services and the activities being carried out on the site limited the locations where sampling locations could be installed and the techniques that could be used.

6. In addition to the above REC Ltd note that when investigating, or developing, potentially contaminated land it is important to recognise that sub-surface conditions may vary spatially and also with time. The absence of certain ground, ground gas, and contamination or groundwater conditions at the positions tested is not a guarantee that such conditions do not exist anywhere across the site. Due to the presence of existing buildings and structures access could not be obtained to all areas. Additional contamination may be identified following the removal of the buildings or hard standing.

7. Site sensitivity assessments have been made based on available information at the time of writing and are ultimately for the decision of the regulatory authorities.

8. Where mention has been made to the identification of Japanese Knotweed and other invasive plant species and asbestos or asbestos-containing materials this is for indicative purposes only and do not constitute or replace full and proper surveys.

9. The executive summary, conclusions and recommendations sections of the report provide an overview and guidance only and should not be specifically relied upon without considering the context of the report in full.

10. This report presents an interpretation of the geotechnical information established by excavation, observation and testing. Whilst every effort is made in interpretative reporting to assess the soil conditions over the Site it should be noted that natural strata vary from point to point and that man made deposits are subject to an even greater diversity. Groundwater conditions are dependent on seasonal and other factors. Consequently there may be conditions present not revealed by this investigation.

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12. Rather, this investigation has been undertaken to provide a preliminary characterisation of the existing sub-surface geotechnical characteristics and make up and the findings of this study are our best interpretation of the data collected, within the scope of work and agreed budget. New information, revised practices or changes in legislation may necessitate the re-interpretation of the report, in whole or in part.

13. This investigation has been undertaken to reasonably characterise existing sub-surface conditions and the findings of this study are our best interpretation of the data collected, within the scope of work and agreed budget. New information, revised practices or changes in legislation may necessitate the re-interpretation of the report, in whole or in part.

APPENDIX II

GLOSSARY

TERMS

AST	Above Ground Storage Tank
BGS	British Geological Survey
BSI	British Standards Institute
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CIEH	Chartered Institute of Environmental Health
CIRIA	Construction Industry Research Association
CLEA	Contaminated Land Exposure Assessment
CSM	Conceptual Site Model
DNAPL	Dense Non-Aqueous Phase Liquid (chlorinated solvents, PCB)
DWS	Drinking Water Standard
EA	Environment Agency
EQS	Environmental Quality Standard
GAC	General Assessment Criteria
GL	Ground Level
GSV	Gas Screening Value
HCV	Health Criteria Value
ICSM	Initial Conceptual Site Model
LNAPL	Light Non-Aqueous Phase Liquid (petrol, diesel, kerosene)
ND	Not Detected
LMRL	Lower Method Reporting Limit
NR	Not Recorded
PAH	Poly Aromatic Hydrocarbon
PCB	Poly-Chlorinated Biphenyl
PID	Photo Ionisation Detector
QA	Quality Assurance
SGV	Soil Guideline Value
SPH	Separate Phase Hydrocarbon
Sp.TPH (CWG)	Total Petroleum Hydrocarbon (Criteria Working Group)
SPT	Standard Penetration Test
SVOC	Semi Volatile Organic Compound
UST	Underground Storage Tank
VCCs	Vibro Concrete Columns
VOC	Volatile Organic Compound
WTE	Water Table Elevation

UNITS

m	Metres
km	Kilometres
%	Percent
%v/v	Percent volume in air
mb	Milli Bars (atmospheric pressure)
l/hr	Litres per hour
µg/l	Micrograms per Litre (parts per billion)
ppb	Parts Per Billion
mg/kg	Milligrams per kilogram (parts per million)
ppm	Parts Per Million

mg/m^3	Milligram per metre cubed
m bgl	Metres Below Ground Level
m bcl	Metre Below Cover Level
mAOD	Metres Above Ordnance Datum (sea level)
kN/m^2	Kilo Newtons per metre squared
µm	Micro metre

APPENDIX III

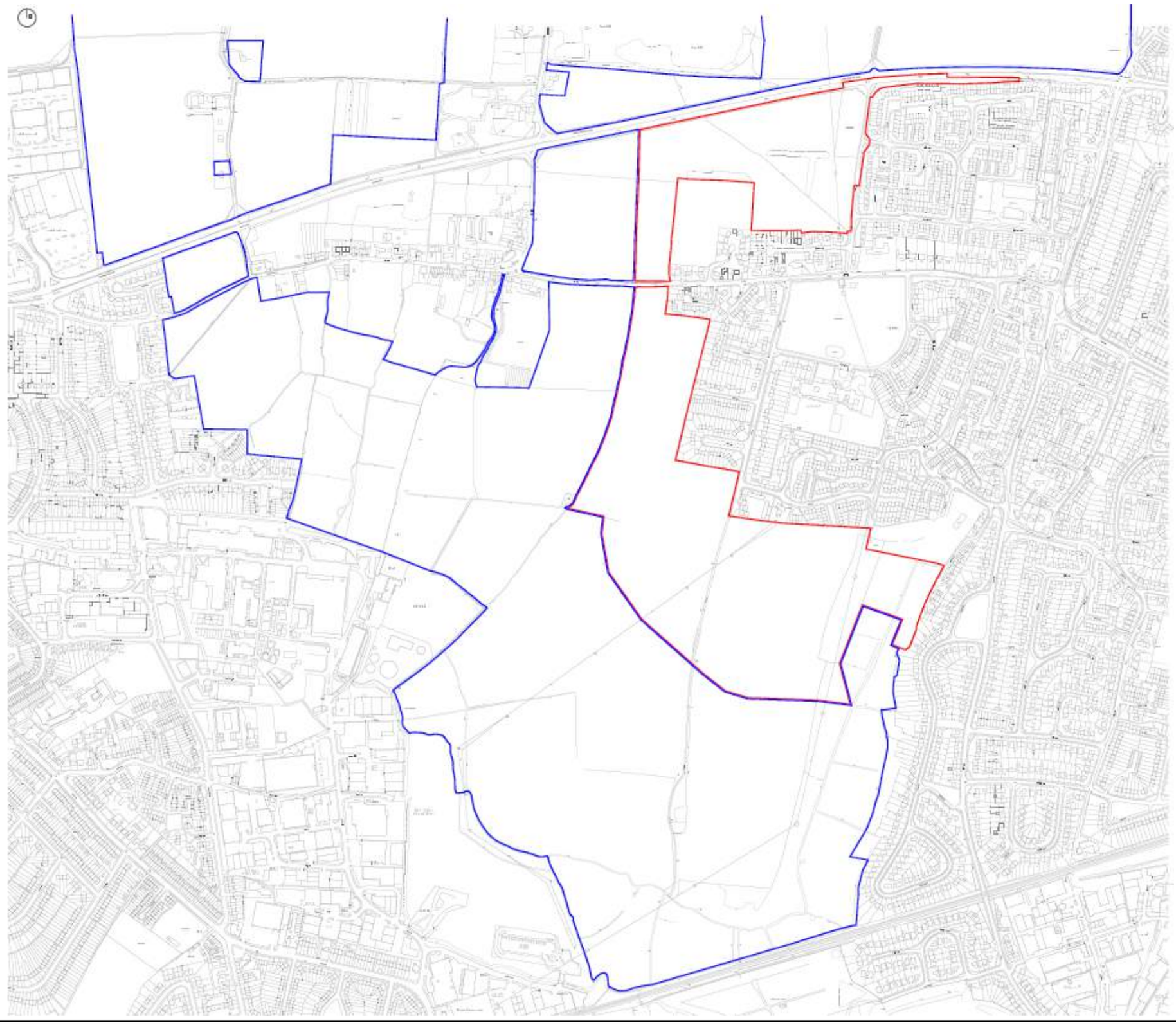
FIGURES

KEY:

N

Extent of Hybrid Planning Application

Extent of Neighbouring Land within Applicant's Control



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Job Title: West Street, Sompting

Client: Persimmon Homes Ltd

Job No:	20612
Drawn By:	LB
Approved by:	RL

Notes: From Turley map ref. PERW3018 1001 RevA dated 11/02/2019.

Drawing Title: Figure 1 - Site Boundary Plan



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Job No. & Title:	Client:	Drawn by: LB	Notes:	Drawing Title:
1CO104163 West Street, Sompting	Persimmon Homes	Approved by: CT Date: February 2019	**NOT TO SCALE** Taken from Turley drawing no: 3000 – rev E dated 11th February 2019.	1CO104163-002 – Site Development Plan

Key

- Trial Pit Location
- Window Sample Probehole Location
- California Bearing Ratio Test Location
- Cable Percussion Test Location
- Soakaway Pit Location



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Job Title: Sompting, West Sussex	Client: PFA Consulting	Job No: 20612 Drawn by: P.S.Sullivan Approved by: P.Hird Scale: NTS	DATE 01-07-14	Drawing Title: Figure 3: Intrusive Works Locations

Notes:

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APPENDIX IV

REC EXPLORATORY HOLE LOGS

Borehole Log

Borehole No. **WS101**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516753.24 - 105505.38	Hole Type WS
Location: West Sussex		Level: 17.72	Scale 1:25
Client: Persimmon Homes South Coast		Dates: 12/02/2014 - 12/02/2014	Logged By WS

Back fill / Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30	ES		0.40	17.32		Grass cover. Very soft brown slightly gravelly silty CLAY. Gravel of angular fine flint. (MADE GROUND) (MADE GROUND)	
		0.60	ES					Soft brown sandy gravelly CLAY. Sand is coarse grained. Gravel of angular fine to coarse flint and chalk. (HEAD DEPOSITS) (HEAD DEPOSITS)	
		1.00	S	N=12 (2,3/3,3,3,3)	1.00	16.72			1
		1.30	D		1.00			Firm light yellow cream sandy gravelly CLAY. Sand is coarse grained. Gravel of angular fine to coarse flint and chalk. Dark brown orange from 3.0m. (HEAD DEPOSITS) (HEAD DEPOSITS)	
		2.00	S	N=14 (1,1/2,3,5,4)	2.00				2
		2.70	D						
		3.00	S	N=9 (3,3/2,2,2,3)	3.00				3
		3.40	D						
		4.00	S	N=14 (2,2/2,3,4,5)	4.00				4
		4.50	D						
					5.00	12.72		End of borehole at 5.00 m	5

Remarks
No groundwater encountered.

Borehole Log

Borehole No. **WS102**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516627.51 - 105323.59	Hole Type WS
Location: West Sussex		Level: 14.12	Scale 1:25
Client: Persimmon Homes South Coast		Dates: 12/02/2014 - 12/02/2014	Logged By WS

Back fill / Well	Water Strikes	Samples and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.30	ES		0.30	13.82		Grass cover. Very soft brown slightly gravelly silty CLAY. Gravel of angular fine to medium flint with occasional rootlets. (MADE GROUND)
		0.70	ES					(MADE GROUND) Firm brown sandy very gravelly CLAY. Sand is coarse grained. Gravel of angular fine to coarse flint and chalk. At 2.7m light yellow to cream colour. From 3.0m bgl unit stiff. (HEAD DEPOSITS)
		1.00	S	N=13 (1,2/3,4,3,3)	1.00			(HEAD DEPOSITS)
		1.80	D					
		2.00	S	N=14 (2,2/3,4,4,3)	2.00			
		2.70	D					
		3.00	S	N=24 (5,7/5,6,6,7)	3.00			
		3.20	D					
		4.00	S	N=32 (5,7/7,8,8,9)	4.00			
		4.70	D					
					5.00	9.12		End of borehole at 5.00 m

Remarks

No groundwater encountered.

Borehole Log

Borehole No. **WS103**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516422.19 - 105411.50	Hole Type WS
Location: West Sussex		Level: 18.53	Scale 1:25
Client: Persimmon Homes South Coast		Dates: 12/02/2014 - 12/02/2014	Logged By WS

Back fill / Well	Water Strikes	Samples and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.30	ES		0.30	18.23		Grass cover. Very soft slightly gravelly silty CLAY. Gravel of angular to rounded fine flint with occasional rootlets. (MADE GROUND) (MADE GROUND)
		0.80	ES					Soft brown orange slightly sandy gravelly CLAY. Sand is coarse grained. Gravel of angular fine to coarse flint and chalk. (HEAD DEPOSITS) (HEAD DEPOSITS)
		1.00	S	N=5 (2,1/1,1,1,2)	1.00	17.53		
		1.30	D		1.00			Soft light yellow cream sandy gravelly CLAY. Sand is coarse grained. Gravel of angular fine to coarse flint, chert and chalk. (HEAD DEPOSITS) (HEAD DEPOSITS)
		2.00	S	N=5 (1,1/1,1,1,2)	2.00			
		2.60	D					
		3.00	S	N=4 (2,1/1,1,1,1)	3.00			
		3.40	D					
		4.00	S	N=5 (1,1/1,1,1,2)	4.00			
		4.20	D					
					5.00	13.53		End of borehole at 5.00 m

Remarks

No groundwater encountered.

Borehole Log

Borehole No. **WS104**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516375.22 - 105243.58	Hole Type WS
Location: West Sussex		Level: 11.63	Scale 1:25
Client: Persimmon Homes South Coast		Dates: 12/02/2014 - 12/02/2014	Logged By WS

Back fill / Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
								Grass cover. Soft brown silty CLAY with occasional rootlets. (MADE GROUND) (MADE GROUND)	
		0.40	ES	HVP=40	0.40	11.23		Soft brown silty gravelly CLAY. Gravel of angular fine to coarse flint. (HEAD DEPOSITS) (HEAD DEPOSITS)	
		0.70	ES						
		1.00	D		0.90	10.73		Soft to firm light yellow sandy gravelly CLAY. Sand is coarse grained. Gravel of angular fine to coarse flint, chert and chalk. (HEAD DEPOSITS) (HEAD DEPOSITS)	1
		1.70	D						
		2.00	S	N=19 (4,5/4,5,5,5)	2.00				2
		2.80	D						
		3.00	S	N=11 (3,3/2,2,3,4)	3.00				3
					3.80	7.83		Firm light yellow gravelly very sandy CLAY. Sand is coarse grained. Gravel of angular fine to coarse flint, chert and chalk. (HEAD DEPOSITS) (HEAD DEPOSITS)	
		3.90	D						
	▼	4.00	S	N=15 (2,2/3,4,4,4)	4.00	7.63			4
					4.00			Stiff grey mottled red orange CLAY. (HEAD DEPOSITS) (HEAD DEPOSITS)	
		4.60	D						
					5.00	6.63		End of borehole at 5.00 m	5

Remarks

Groundwater seepage at 4.00 mbgl.

Borehole Log

Borehole No. **WS105**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516380.69 - 105154.59	Hole Type WS
Location: West Sussex		Level: 10.05	Scale 1:25
Client: Persimmon Homes South Coast		Dates: 11/02/2014 - 11/02/2014	Logged By WS

Back fill / Well	Water Strikes	Samples and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.40	ES		0.40	9.65		Grass cover. Black slightly clayey sandy GRAVEL. Sand is coarse. Gravel of angular, fine to coarse asphalt, aggregate, brick and flint. (MADE GROUND) (MADE GROUND)
		0.80	ES					Soft dark brown silty gravelly CLAY. Gravel of angular, fine to coarse flint and chert. (HEAD DEPOSITS)
		1.00	S	N=3 (1,0/1,0,1,1)	1.00 1.00	9.05		Soft light yellow slightly sandy, gravelly CLAY. Sand is coarse. Gravel of angular, fine to coarse flint, chert and chalk. (HEAD DEPOSITS) (HEAD DEPOSITS)
		1.50	D					
		2.00	S	N=32 (3,6/6,6,9,11)	2.00			*...at 2.00 mbgl Clay becoming stiff*
		2.20	D					
		3.00	S	N=24 (1,3/3,6,6,9)	3.00			
	▼	3.30	D		3.30	6.75		Dark yellow fine to medium SAND. (HEAD DEPOSITS) (HEAD DEPOSITS)
		4.00	S	N=20 (3,4/4,4,6,6) Water=3.20m	4.00 4.00	6.05		End of borehole at 4.00 m

Remarks

Groundwater seepage at 4.00 mbgl. EOH at 4.00 mbgl due to hole collapse.

Borehole Log

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Borehole No. **WS106** Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516415.47 - 105044.08	Hole Type WS
Location: West Sussex		Level: 9.91	Scale 1:25
Client: Persimmon Homes South Coast		Dates: 11/02/2014 - 11/02/2014	Logged By WS

Back fill / Well	Water Strikes	Samples and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.30	ES		0.30	9.61		Soft dark brown, slightly gravelly silty CLAY. Gravel of angular, fine to coarse flint. (MADE GROUND) (MADE GROUND)
		0.70	ES	HVP=30				Soft brownish orange, slightly silty gravelly CLAY. Gravel of angular fine to coarse flint. (HEAD DEPOSITS) (HEAD DEPOSITS)
		1.00	D		1.00			
		1.00	S	N=8 (1,1/2,2,2,2)				
		1.80	D		1.80	8.11		Soft light yellow sandy, gravelly CLAY. Sand is coarse. Gravel of angular, fine to coarse flint and chert. (HEAD DEPOSITS) (HEAD DEPOSITS)
		2.00	S	N=3 (0,0/1,0,1,1)	2.00			
	▼	3.00	S	N=4 (1,1/1,1,1,1) Water=3.00m	3.00	6.91		Loose yellow slightly sandy GRAVEL. Sand is medium to coarse. Gravel of angular, fine to coarse flint. (HEAD DEPOSITS)
		3.20	D		3.00			
					3.70	6.21		Soft light yellow slightly silty, sandy, gravelly CLAY. Sand is medium to coarse. Gravel of angular to subangular fine to coarse flint. (HEAD DEPOSITS) (HEAD DEPOSITS)
		4.00	D		4.00	5.91		Dark greyish brown SAND. Sand is fine to medium grain. (HEAD DEPOSITS) (HEAD DEPOSITS)
		4.00	S	N=9 (1,2/2,2,2,3)	4.00			End of borehole at 4.00 m
					5.00	4.91		

Remarks
Groundwater strike at 3.00 mbgl.

Borehole Log

Borehole No. **WS107**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516427.33 - 104755.00	Hole Type WS
Location: West Sussex		Level: 7.90	Scale 1:25
Client: Persimmon Homes South Coast		Dates: 10/02/2014 - 10/02/2014	Logged By WS

Back fill / Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
					0.20	7.70		Slight crop cover. Soft dark brown silty CLAY. (MADE GROUND) (MADE GROUND)
		0.30	ES					Soft brownish orange silty CLAY. Rare gravel of angular, fine to medium flint between 1.0 and 1.2m bgl. (HEAD DEPOSITS) (HEAD DEPOSITS)
		0.70	ES					
		1.00	S	N=8 (2,2/1,2,2,3)	1.00			
		1.00	D					
				HVP=60				
				HVP=60				
		1.80	D					
		2.00	S	N=7 (4,5/3,2,1,1)	2.00			
	▼				2.40	5.50		Firm to stiff dark yellow, slightly silty sandy, gravelly CLAY. Sand is coarse. Gravel of angular, fine to coarse flint, chert and chalk. (HEAD DEPOSITS) (HEAD DEPOSITS)
		2.60	D					
				HVP=20				
		3.00	S	N=14 (3,3/4,2,4,4) Water=2.40m	3.00			
		3.30	D					
		4.00	S	N=14 (2,2/2,4,4,4)	4.00			
					4.30	3.60		Dark yellow gravelly SAND. Sand is fine to medium. Gravel of angular, fine to coarse flint, chert and chalk. (HEAD DEPOSITS) (HEAD DEPOSITS)
		4.60	D					
					5.00	2.90		End of borehole at 5.00 m

Remarks

Groundwater strike at 2.40 mbgl. EOH at 4.00 mbgl due to hole collapse .

Borehole Log

Borehole No. **WS108**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516395.58 - 104650.52	Hole Type WS
Location: West Sussex		Level: 7.33	Scale 1:25
Client: Persimmon Homes South Coast		Dates: 10/02/2014 - 10/02/2014	Logged By WS

Back fill / Well	Water Strikes	Samples and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.30	ES		0.20	7.13		Soft brown slightly gravelly, silty CLAY. Gravel of angular, fine to coarse flint. (MADE GROUND) (MADE GROUND)
		0.80	ES					Soft brownish orange silty CLAY. (HEAD DEPOSITS) (HEAD DEPOSITS)
		1.00	S	N=4 (1,2/1,1,1,1)	1.00 1.00	6.33		Soft dark yellow brown slightly sandy, gravelly CLAY. Sand is coarse. Gravel of angular, fine to coarse flint and chert. (HEAD DEPOSITS) (HEAD DEPOSITS)
		1.60	D		1.50	5.83		Soft light yellow cream slightly gravelly very sandy CLAY. Sand is medium to coarse. Gravel of angular, fine to coarse flint, chert and chalk. (HEAD DEPOSITS) (HEAD DEPOSITS)
		1.90	D		1.80	5.53		Loose dark yellow fine to medium SAND. (HEAD DEPOSITS) (HEAD DEPOSITS)
		2.00	S	N=5 (1,2/1,1,1,2)	2.00			
	▼				2.40	4.93		Light yellow cream, firm to stiff slightly gravelly, sandy CLAY. Sand is fine to coarse. Gravel of angular, fine to coarse flint, chert and chalk. (HEAD DEPOSITS) (HEAD DEPOSITS)
		2.70	D					
		3.00	S	N=14 (3,2/2,3,4,5) Water=2.40m	3.00			
		3.80	D					
		4.00	S	N=29 (4,4/6,7,7,9)	4.00 4.00	3.33		End of borehole at 4.00 m

Remarks

Groundwater strike at 2.40 mbgl. EOH at 4.00 mbgl due to hole collapse .

Borehole Log

Borehole No. **WS109**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516409.02 - 104546.13	Hole Type WS
Location: West Sussex		Level: 6.50	Scale 1:25
Client: Persimmon Homes South Coast		Dates: 10/02/2014 - 10/02/2014	Logged By WS

Back fill / Well	Water Strikes	Samples and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description	
		0.20	ES		0.20	6.30		Soft brown slightly gravelly, silty CLAY. Gravel of angular, fine to coarse flint. (MADE GROUND)	
								(MADE GROUND)	
		0.60	ES					Soft to firm brownish orange silty CLAY. (HEAD DEPOSITS)	
		1.00	S	N=5 (1,1/1,1,2,1)	1.00			(HEAD DEPOSITS)	1
		1.10	D						
				HVP=80	1.40	5.10		High strength dark yellow, slightly silty, sandy, gravelly CLAY. Sand is coarse. Gravel of angular, fine to coarse flint and chert. (HEAD DEPOSITS)	
		2.00	S	N=5 (1,1/1,2,1,1)	2.00	4.50		(HEAD DEPOSITS)	2
		2.30	D		2.00			Firm to stiff light yellow cream, slightly sandy, gravelly CLAY. Sand is fine to coarse. Gravel of angular, fine to coarse flint, chalk and chert. (HEAD DEPOSITS)	
		2.80	D					(HEAD DEPOSITS)	
		3.00	S	N=14 (1,1/2,3,4,5)	3.00				3
	▼								
		3.70	D		3.70	2.80		Recovered as structureless white CHALK composed of slightly silty gravelly CLAY. Gravel is weak angular, with occasional black flecks. (TARRANT CHALK MEMBER)	
		4.00	S	N=3 (1,0/1,0,1,1) Water=3.40m	4.00			CHALK	4
		4.50	D						
					5.00	1.50		End of borehole at 5.00 m	5

Remarks

Groundwater strike at 3.40 mbgl.

Borehole Log

Borehole No. **WS110**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516621.68 - 104656.93	Hole Type WS
Location: West Sussex		Level: 8.48	Scale 1:25
Client: Persimmon Homes South Coast		Dates: 10/02/2014 - 10/02/2014	Logged By WS

Back fill / Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.20	ES		0.20	8.28		Soft brown slightly silty, slightly gravelly CLAY. Gravel of angular, fine to coarse flint. (MADE GROUND) (MADE GROUND)	
		0.60	ES		0.60	7.88		Soft brownish orange silty CLAY. (HEAD DEPOSITS) (HEAD DEPOSITS)	
		1.00	S	N=7 (1,1/1,2,1,3)	1.00			Firm medium strength brown slightly gravelly silty CLAY. Gravel of angular to subangular fine to coarse flint. (HEAD DEPOSITS) (HEAD DEPOSITS)	1
		1.30	D	HVP=55					
		1.80	D						
		2.00	S	N=11 (2,1/2,3,3,3)	2.00 2.00	6.48		Firm light greyish white slightly sandy, gravelly silty CLAY. Sand is fine to medium. Gravel of angular to subangular fine to coarse flint and chert. (HEAD DEPOSITS) (HEAD DEPOSITS)	2
		2.50	D						
		3.00	S	N=29 (5,6/8,8,7,6)	3.00 3.00	5.48		Medium dense, brownish grey slightly silty, sandy clayey GRAVEL. Sand is fine to medium. Gravel of angular fine to coarse flint. (HEAD DEPOSITS) (HEAD DEPOSITS)	3
		3.20	D						
		3.80	D		3.80	4.68		Stiff cream slightly silty, slightly gravelly CLAY. Gavel of angular, fine to medium flint with occasional fine flint fragments. (HEAD DEPOSITS) (HEAD DEPOSITS)	
		4.00	S	N=37 (3,11/11,9,8,9)	4.00 4.00	4.48			4
		4.20	D					Stiff cream mottled dark brown, slightly silty, slightly sandy, slightly gravelly CLAY. Sand is medium to coarse. Gravel of angular, fine to coarse flint and chalk. (HEAD DEPOSITS) (HEAD DEPOSITS)	
		4.70	D		4.60	3.88		Dark yellow, slightly clayey gravelly SAND. Sand is fine to medium. Gravel of angular fine to coarse flint. (HEAD DEPOSITS) (HEAD DEPOSITS)	
					5.00	3.48		End of borehole at 5.00 m	5

Remarks
No groundwater encountered.

Borehole Log

Borehole No. **WS111**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516554.98 - 104605.85	Hole Type WS
Location: West Sussex		Level: 8.26	Scale 1:25
Client: Persimmon Homes South Coast		Dates: 10/02/2014 - 10/02/2014	Logged By WS

Back fill / Well	Water Strikes	Samples and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description	
		0.10	ES		0.20	8.06		Slight grass cover. Soft dark brown slightly gravelly, silty CLAY. Gravel of angular, fine to medium flint. (MADE GROUND) (MADE GROUND)	
		0.50	ES					Soft brownish orange silty CLAY. (HEAD DEPOSITS) (HEAD DEPOSITS)	
		1.00	S	N=8 (1,2/2,2,2,2)	1.00				1
		1.50	D	HVP=60	1.20	7.06		Firm medium strength brown slightly silty gravelly CLAY. Gravel of angular to subangular fine to coarse flint. (HEAD DEPOSITS) (HEAD DEPOSITS)	
		2.00	S	N=9 (2,2/2,2,2,3)	2.00				2
		2.60	D		2.30	5.96		Stiff light cream slightly silty, slightly sandy, gravelly CLAY. Sand is coarse. Gravel of angular fine to coarse flint and chert. Rare gravels of fine to coarse chalk fragments between 3.2 and 4.1m bgl. (HEAD DEPOSITS) (HEAD DEPOSITS)	
		3.00	S	N=24 (2,3/4,6,6,8)	3.00				3
		3.30	D						
		4.00	S	N=27 (8,8/8,6,6,7)	4.00				4
		4.50	D		4.10	4.16		Stiff light yellow slightly silty, sandy, gravelly CLAY. Sand is coarse. Gravel of angular to subangular, fine to coarse flint, chert and chalk. (HEAD DEPOSITS) (HEAD DEPOSITS)	
					5.00	3.26		End of borehole at 5.00 m	5

Remarks

Groundwater seepage at 3.50 mbgl.

Borehole Log

Borehole No. **WS112**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516582.95 - 104476.29	Hole Type WS
Location: West Sussex		Level: 7.26	Scale 1:25
Client: Persimmon Homes South Coast		Dates: 10/02/2014 - 10/02/2014	Logged By WS

Back fill / Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.10	ES		0.20	7.06		Dark brown slightly gravelly silty CLAY with rare gravel of angular, fine flint. (MADE GROUND) (MADE GROUND)	
		0.40	ES					Soft brownish orange silty CLAY. (HEAD DEPOSITS) (HEAD DEPOSITS)	
		1.00	S	N=9 (1,1/2,2,2,3)	1.00				1
		1.40	D	HVP=90					
					1.60	5.66		Firm to stiff brown, slightly silty, slightly sandy gravelly CLAY. Sand is coarse. Gravel of angular, fine to coarse flint, chert and chalk. (HEAD DEPOSITS) (HEAD DEPOSITS)	
		2.00	S	N=4 (1,1/1,1,1,1)	2.00				2
		2.20	D						
					2.80	4.46		Stiff light yellow slightly silty, slightly sandy gravelly CLAY. Sand is coarse. Gravel of angular, fine to coarse flint, chert and fine chalk fragments. (HEAD DEPOSITS) (HEAD DEPOSITS)	
		2.90	D						
		3.00	S	N=19 (2,3/4,4,5,6)	3.00				3
					3.50	3.76		Stiff creamy yellow sandy, gravelly CLAY. Sand is coarse. Gravel of angular fine to coarse flint, chert and chalk fragments. (HEAD DEPOSITS) (HEAD DEPOSITS)	
		3.70	D						
		4.00	S	N=25 (4,6/5,5,7,8)	4.00				4
					4.50	2.76		Stiff cream sandy gravelly CLAY. Sand is coarse. Gravel of angular, fine to coarse flint and chalk fragments. (HEAD DEPOSITS) (HEAD DEPOSITS)	
		4.70	D						
					5.00	2.26		End of borehole at 5.00 m	5

Remarks

No groundwater encountered.

Borehole Log

Borehole No. **WS113**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516814.66 - 104646.67	Hole Type WS
Location: West Sussex		Level: 3.68	Scale 1:25
Client: Persimmon Homes South Coast		Dates: 11/02/2014 - 11/02/2014	Logged By WS

Back fill / Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.30	ES		0.30	3.38		Grass cover. Black slightly silty, sandy gravelly CLAY. Sand is coarse. Gravel of angular, fine to coarse flint, brick and aggregate. (MADE GROUND) (MADE GROUND)
		0.80	ES					Soft to firm brown, silty gravelly CLAY. Gravel of angular, fine to coarse flint. (HEAD DEPOSITS) (HEAD DEPOSITS)
		1.00	S	N=11 (3,3/2,3,3,3)	1.00			
					1.20	2.48		Firm to stiff light yellow slightly silty, slightly sandy gravelly CLAY> Sand is medium to coarse. Gravel of angular, fine to coarse flint, chert and chalk fragments. (HEAD DEPOSITS) (HEAD DEPOSITS)
		1.60	D					
		2.00	S	N=17 (2,1/2,4,5,6) Water=1.40m	2.00			
					2.40	1.28		Recovered as structureless cream,CHALK, slightly silty, gravelly CLAY. Gravel composed of low density angular chalk fragments and rinded flint. (TARRANT CHALK MEMBER) CHALK
		2.50	D					
		3.00	S	N=7 (1,2/1,2,2,2)	3.00	0.68		End of borehole at 3.00 m
					3.00			

Remarks

Groundwater strike at 1.30 mbgl rising to 0.80 mbgl. EOH at 3.00 mbgl due to hole collapse.

Borehole Log

Borehole No. **WS114**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516795.44 - 104567.83	Hole Type WS
Location: West Sussex		Level: 2.32	Scale 1:25
Client: Persimmon Homes South Coast		Dates: 11/02/2014 - 11/02/2014	Logged By WS

Back fill / Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.40	ES		0.50	1.82		Soft black silty, gravelly CLAY. Gravel of angular fine to coarse flint with occasional organic matter. (MADE GROUND) (MADE GROUND)
		0.70	ES					Firm dark yellow gravelly CLAY. Gravel of angular fine to coarse flint and chert. (HEAD DEPOSITS) (HEAD DEPOSITS)
	▼	1.00	S	N=8 (2,2/2,2,2,2)	1.00			
		2.00	S	N=8 (2,2/2,2,2,2) Water=1.20m	1.70 2.00	0.62		Recovered as structureless white CHALK composed of silty gravelly CLAY. Gravel is weak angular chalk with rinded flint. (TARRANT CHALK MEMBER) CHALK
		2.70	D					
		3.00	S	N=2 (1,0/1,0,0,1)	3.00 3.00	-0.68		End of borehole at 3.00 m

Remarks

Groundwater seepage at 1.20 mbgl. EOH at 3.00 mbgl due to hole collapse.

Borehole Log

Borehole No. **WS115**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516807.86 - 104463.06	Hole Type WS
Location: West Sussex		Level: 1.81	Scale 1:25
Client: Persimmon Homes South Coast		Dates: 12/02/2014 - 12/02/2014	Logged By WS

Back fill / Well	Water Strikes	Samples and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.30	ES		0.30	1.51		Very soft brown silty CLAY with occasional rootlets. (MADE GROUND) (MADE GROUND)
		0.60	ES					Soft brown gravelly CLAY. Gravel of angular fine to coarse flint. (HEAD DEPOSITS) (HEAD DEPOSITS)
		1.00	S	N=8 (2,2/2,2,2,2)	0.90	0.91		
		1.00	D		1.00			Soft to firm light yellow cream sandy gravelly CLAY. Sand is coarse. Gravel of angular fine to coarse flint and chalk. At 2.0m soft. Firm to stiff at 3.0m (HEAD DEPOSITS) (HEAD DEPOSITS)
		2.00	S	N=3 (1,1/1,0,1,1)	2.00			
		3.00	S	N=17 (3,3/5,3,4,5)	3.00			
					4.00	-2.19		End of borehole at 4.00 m

Remarks
No groundwater encountered.

Trial Pit Log

Trialpit No **TP112**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516429.49 - 104787.50 Level: 19.15	Date 29/05/2014
Location: West Sussex		Dimensions (m): 1.80 × 0.60, Depth 3.50	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
			0.00	19.15		Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
0.40	ES		0.40	18.75		Light Brown slightly clayey slightly gravelly SILT. Gravel of angular to subangular medium to coarse flint. (HEAD DEPOSITS)
			0.90	18.25		Creamy yellow, slightly clayey slightly gravelly SAND. Sand is coarse. Gravel is angular to subrounded, fine to medium flint. (HEAD DEPOSITS)
1.20	B					
			3.50	15.65		End of pit at 3.50 m

1 2 3 4

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **TP114**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516314.04 - 105517.86 Level: 21.60	Date 29/05/2014
Location: West Sussex		Dimensions (m): 2.00 x 0.60, Depth 3.50	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
			0.20	21.40		Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
						Light brown slightly clayey gravelly SILT. Gravel is angular to subangular, medium to coarse flint. (HEAD DEPOSITS)
0.70	ES					
2.00	B					
			2.40	19.20		Light brown clayey GRAVEL. Gravel is angular to rounded, fine to coarse flint. (HEAD DEPOSITS)
2.90	B					
			3.50	18.10		End of pit at 3.50 m

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **TP117** Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516277.60 - 105282.44 Level: 13.48	Date 29/05/2014
Location: West Sussex		Dimensions (m): 1.90 × 0.60, Depth 3.00	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
0.30	ES		0.40	13.08		Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
0.70	B		0.90	12.58		Light Brown slightly clayey slightly gravelly SILT. Gravel of angular to subangular medium to coarse flint. (HEAD DEPOSITS)
2.00	B					Light brown sandy clayey GRAVEL. Gravel is angular to rounded, fine to coarse flint. (HEAD DEPOSITS)
2.90	B		3.00	10.48		End of pit at 3.00 m

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **TP119**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516312.00 - 105139.82 Level: 11.07	Date 29/05/2014
Location: West Sussex		Dimensions (m): 1.90 × 0.60, Depth 3.50	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
0.40	ES		0.50	10.57		Brown gravelly SILT. Gravel of Angular to subrounded, medium to coarse flint. (MADE GROUND) (MADE GROUND)
1.20	B		1.60	9.47		Light brown slightly clayey GRAVEL. Gravel is angular to rounded, fine to coarse flint. (HEAD DEPOSITS)
2.30	B		2.20	8.87		Creamy yellow, slightly clayey sandy GRAVEL. Sand is fine to coarse. Gravel is angular to subangular, medium to cobble flint. (HEAD DEPOSITS)
3.00	B		3.50	7.57		Pale yellow slightly gravelly SAND. Sand is coarse. Gravel is angular, fine to medium flint. (HEAD DEPOSITS)
						End of pit at 3.50 m

1 2 3 4

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **TP120** Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516334.08 - 105058.58 Level: 9.75	Date 29/05/2014
Location: West Sussex		Dimensions (m): 1.70 × 0.60, Depth 3.00	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
0.20	ES		0.30	9.45		Brown gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
0.80	B					Light brown slightly clayey sandy GRAVEL. Gravel is angular to rounded, fine to coarse flint. (HEAD DEPOSITS)
2.90	B		2.90 3.00	6.85 6.75		Pale creamy yellow slightly gravely sandy CLAY. Sand is fine to medium. Gravel is angular, medium flint. (HEAD DEPOSITS) End of pit at 3.00 m

1 2 3 4

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Pit Collapsed to 1.20m

Trial Pit Log

Trialpit No **TP123**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516253.96 - 104906.49 Level: 3.43	Date 23/05/2014
Location: West Sussex	Dimensions (m): Depth 2.60	3.50 × 0.60	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
			0.30	3.13		Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
0.70	ES					Light brown clayey gravelly SILT. Gravel of angular to subrounded fine to coarse flint. (HEAD DEPOSITS)
			0.90	2.53		Light brown clayey GRAVEL. Gravel is angular to rounded, fine to coarse flint. (HEAD DEPOSITS)
1.60	B		1.50	1.93		Light brown GRAVEL. Gravel is angular to subrounded, medium to coarse flint. (HEAD DEPOSITS)
2.00	B					
			2.60	0.83		End of pit at 2.60 m

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Pit Collapsed to 2.10m

Trial Pit Log

Trialpit No **TP125**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516429.26 - 104876.70 Level: 6.87	Date 23/05/2014
Location: West Sussex	Dimensions (m): Depth 3.50	3.00 × 0.60	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
			0.30	6.57		Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
0.40	ES					Light brown slightly clayey gravelly SILT. Gravel of angular to subrounded fine to coarse flint. (HEAD DEPOSITS)
1.00	B					
			1.40	5.47		Light brown clayey GRAVEL. Gravel is angular to rounded, fine to coarse flint. (HEAD DEPOSITS)
2.00	B					
			2.10	4.77		Pale yellow brown sandy GRAVEL. Sand is medium to coarse. Gravel is subangular to rounded fine to coarse flint. (HEAD DEPOSITS)
			2.40	4.47		Pale yellow SAND. Sand is fine to medium. (HEAD DEPOSITS)
3.40	B					
			3.50	3.37		End of pit at 3.50 m

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **TP129** Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516271.24 - 104725.78 Level: 11.13	Date 29/05/2014
Location: West Sussex		Dimensions (m): 2.00 × 0.60, Depth 3.00	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
						Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
			0.40	10.73		
0.60	ES					Light brown slightly gravelly slightly clayey slightly sandy SILT. Sand is fine to medium. Gravel is angular to subrounded fine to medium (HEAD DEPOSITS)
1.50	B					
			2.20	8.93		Soft light brown gravelly CLAY. Gravel is angular to subrounded, medium to coarse flint. (HEAD DEPOSITS)
2.80	B					
			3.00	8.13		End of pit at 3.00 m

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **TP130** Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 104739.61 - 516369.08 Level: 7.60	Date 23/05/2014
Location: West Sussex		Dimensions (m): 2.00 × 0.60, Depth 3.00	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
			0.30	7.30		Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
			1.00	6.60		Light brown slightly clayey gravelly SILT. Gravel of angular to subrounded fine to coarse flint. (HEAD DEPOSITS)
			2.40	5.20		Light brown clayey GRAVEL. Gravel is angular to rounded, fine to coarse flint. (HEAD DEPOSITS)
			3.00	4.60		Pale yellow SAND. Sand is fine to medium. (HEAD DEPOSITS) End of pit at 3.00 m

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **TP133**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516208.92 - 104721.05 Level: 6.98	Date 29/05/2014
Location: West Sussex		Dimensions (m): 2.00 × 0.60, Depth 3.00	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
						Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
			0.30	6.68		
0.50	ES					Light brown slightly clayey gravelly SILT. Gravel of angular to subrounded fine to coarse flint. (HEAD DEPOSITS)
			1.40	5.58		
1.50	B					Light brown slightly sandy GRAVEL. Sand is medium to coarse. Gravel is angular to subrounded fine to coarse flint. (HEAD DEPOSITS)
			2.20	4.78		
2.60	B					Structureless CHALK composed of uncompacted slightly sandy gravelly CLAY. Gravel is weak, low density and white. Occasional medium to coarse flint. (grade DM) (TARRANT CHALK MEMBER).
			3.00	3.98		End of pit at 3.00 m

1 2 3 4

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **TP134** Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516429.07 - 104777.61 Level: 13.09	Date 22/05/2014
Location: West Sussex		Dimensions (m): 2.50 × 0.60, Depth 3.00	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
0.30	ES		0.40	12.68		Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
1.00	B		1.40	11.68		Light brown slightly gravelly silty CLAY. Gravel is angular to subrounded, fine to coarse flint. (HEAD DEPOSITS)
2.20	B					Light brown clayey GRAVEL. Gravel is angular to rounded, fine to coarse flint. (HEAD DEPOSITS)
3.00	B		3.00	10.09		End of pit at 3.00 m

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **TP135** Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516519.06 - 104769.61 Level: 8.96	Date 23/05/2014
Location: West Sussex		Dimensions (m): Depth 3.70; 2.80 × 0.60	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
0.20	ES					Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
			0.30	8.66		Light brown slightly clayey gravelly SILT. Gravel of angular to subrounded fine to coarse flint. (HEAD DEPOSITS.)
0.90	B		0.90	8.06		Light brown clayey GRAVEL. Gravel is angular to rounded, fine to coarse flint. (HEAD DEPOSITS)
2.10	B					
			3.00	5.96		Pale brown cream slightly clayey sandy GRAVEL. Sand is medium, Gravel is angular to subrounded, fine to medium flint. (HEAD DEPOSITS)
			3.10	5.86		Pale yellow SAND. Sand is fine to medium. (HEAD DEPOSITS)
3.40	B					
			3.70	5.26		End of pit at 3.70 m

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **TP136** Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516626.05 - 104765.61 Level: 7.47	Date 23/05/2014
Location: West Sussex		Dimensions (m): Depth 3.00 — 3.00 × 0.60	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
			0.40	7.07		Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
0.70	ES					Light brown clayey gravelly SILT. Gravel of angular to subrounded fine to coarse flint. (HEAD DEPOSITS)
1.00	B					
1.90	B					
			2.40	5.07		Pale yellow SAND. Sand is fine to medium. (HEAD DEPOSITS)
			3.00	4.47		End of pit at 3.00 m

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **TP137**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516451.07 - 104726.62 Level: 7.79	Date 22/05/2014
Location: West Sussex		Dimensions (m): 1.90 × 0.60 Depth 3.50	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
0.20	ES					Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
			0.40	7.39		Light brown clayey gravelly SILT. Gravel of angular to subrounded fine to coarse flint. (HEAD DEPOSITS)
0.70	B		0.70	7.09		Light brown clayey GRAVEL. Gravel is angular to rounded, fine to cobble flint. (HEAD DEPOSITS)
2.00	B		2.20	5.59		Pale yellow SAND. Sand is fine to medium. (HEAD DEPOSITS)
3.50	B		3.50	4.29		End of pit at 3.50 m

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **TP139**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516395.08 - 104670.62 Level: 12.32	Date 22/05/2014
Location: West Sussex		Dimensions (m): 2.50 × 0.60, Depth 3.50	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
0.20	ES		0.30	12.02		Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
1.00	B	HVP=36 HVP=38	1.10	11.22		Light brown clayey gravelly SILT. Gravel of angular to subrounded fine to coarse flint. (HEAD DEPOSITS)
1.90	B		1.80	10.52		Light brown clayey GRAVEL. Gravel is angular to rounded, fine to coarse flint. (HEAD DEPOSITS)
3.30	B		3.50	8.82		Yellowish brown slightly sandy clayey GRAVEL. Sand is fine to medium, gravel is angular to subangular medium to coarse, rare cobble flint. (HEAD DEPOSITS) End of pit at 3.50 m

1 2 3 4

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **TP141** Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516574.47 - 104570.71 Level: 4.95	Date 23/05/2014
Location: West Sussex		Dimensions (m): 2.00 × 0.60, Depth 3.50	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
						Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
			0.30	4.65		
0.50	ES					Light brown slightly gravelly clayey SILT. Gravel of angular to rounded fine flint and chalks. (HEAD DEPOSITS)
1.10	B					
			1.80	3.15		Medium light brown slightly gravelly slightly sandy CLAY. Sand is fine. Gravel is fine to coarse rounded flint and chalk. (HEAD DEPOSITS)
		HVP=62 HVP=50 HVP=58	2.10	2.85		
2.00	B	HVP=60				Structureless CHALK composed of uncompacted slightly gravelley sandy SILT. Gravel is weak, low density and white. Occasional medium to coarse flint. (grade DM) (TARRANT CHALK MEMBER).
			3.10	1.85		White structureless slightly gravelly silty CLAY. Gravel is medium to cobble angular to rounded flint. DM CHALK (TARRANT CHALK MEMBER)
3.30	B					
			3.50	1.45		End of pit at 3.50 m

1 2 3 4

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **TP142**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516431.07 - 104612.63 Level: 6.83	Date 22/05/2014
Location: West Sussex		Dimensions (m): 1.90 × 0.60, Depth 3.10	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
						Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
			0.40	6.43		
0.50	ES					Light brown slightly clayey gravelly SILT. Gravel of angular to subrounded fine to coarse flint. (HEAD DEPOSITS)
0.90	B					
			1.70	5.13		
		HVP=39 HVP=38 HVP=42				Low strength brown gravelly CLAY. Gravel is angular to subangular fine to coarse flint with occasional subrounded to rounded fine to medium chalk. (HEAD DEPOSITS)
1.80	B					
			2.70	4.13		
						Pale yellowish brown slightly clayey slightly sandy GRAVEL. Sand is fine to medium. Gravel is angular to subangular medium to coarse flint with occasional subangular to rounded fine to medium chalk. (HEAD DEPOSITS)
3.00	B					
			3.10	3.73		End of pit at 3.10 m

1 2 3 4

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **TP144**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516372.08 - 104558.64 Level: 12.76	Date 22/05/2014
Location: West Sussex		Dimensions (m): 2.50 × 0.60, Depth 3.00	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
						Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
			0.30	12.46		Light brown slightly clayey SILT. (HEAD DEPOSITS)
0.70	ES					
1.00	B		1.00	11.76		Brown clayey GRAVEL. Gravel is angular to subangular medium to coarse flint. (HEAD DEPOSITS)
			1.70	11.06		Pale yellow brown slightly sandy clayey GRAVEL. Sand is fine to coarse. Gravel is angular to rounded fine to coarse flint and rare chalk. (HEAD DEPOSITS)
2.00	B					
3.00	B		3.00	9.76		End of pit at 3.00 m

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **TP146**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516697.04 - 104672.62 Level: 7.15	Date 23/05/2014
Location: West Sussex		Dimensions (m): 3.00 x 0.60 Depth 3.10	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
						Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
			0.30	6.85		Light brown slightly clayey slightly gravelly SILT. Gravel of subangular to subrounded fine to medium flint. (HEAD DEPOSITS)
0.70	ES					
1.00	B					
1.80	B	HVP=60 HVP=50 HVP=60 HVP=50				
			2.20	4.95		Light brown clayey GRAVEL. Gravel is angular to rounded, fine to coarse flint. (HEAD DEPOSITS)
			2.50	4.65		Pale yellow slightly mottled brown sandy clayey SILT. Sand is fine to medium. (HEAD DEPOSITS)
3.00	B					
			3.10	4.05		End of pit at 3.10 m

1 2 3 4

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **SA1**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516487.38 - 105511.95 Level: 21.69	Date 27/05/2014
Location: West Sussex	Dimensions (m): Depth 2.00	2.00 × 0.60	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
			0.02	21.67		Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. Rootlets present. (MADE GROUND) (MADE GROUND) Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND)
			0.40	21.29		Light brown slightly clayey gravelly SILT. Gravel of angular to subrounded fine to coarse flint. (HEAD DEPOSITS)
			1.10	20.59		Yellow slightly gravelly SAND. Sand is coarse. Gravel of angular fine to cobble flint. (HEAD DEPOSITS)
			2.00	19.69		End of pit at 2.00 m

1 2 3 4

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **SA2**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516573.20 - 105451.24 Level: 18.85	Date 27/05/2014
Location: West Sussex		Dimensions (m): 1.90 × 0.60, Depth 2.00	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
			0.20	18.65		Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
			0.90	17.95		Light brown slightly clayey gravelly SILT. Gravel of angular to subrounded fine to coarse flint.(HEAD DEPOSITS)
			2.00	16.85		Yellow gravelly SAND. Sand is coarse. Gravel is fine to cobble subangular to rounded flint. (HEAD DEPOSITS) End of pit at 2.00 m

1 2 3 4

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **SA3**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516469.57 - 105347.69 Level: 16.68	Date 27/05/2014
Location: West Sussex	Dimensions (m): Depth 2.00	1.80 × 0.60	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
			0.30	16.38		Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
			1.20	15.48		Light brown slightly clayey gravelly SILT. Gravel of angular to subrounded fine to coarse flint. (HEAD DEPOSITS)
			2.00	14.68		Yellow slightly gravelly SAND. Sand is coarse. Gravel is, angular to rounded fine to cobble size flint (HEAD DEPOSITS).
						End of pit at 2.00 m

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **SA4**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516404.09 - 104811.39 Level: 10.35	Date 28/05/2014
Location: West Sussex		Dimensions (m): Depth 2.00 (2.00 × 0.60)	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
						Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
			0.40	9.95		Light brown slightly clayey gravelly SILT. Gravel of angular to subrounded fine to coarse flint. (HEAD DEPOSITS)
			1.10	9.25		Light brown clayey GRAVEL. Gravel is angular to rounded, fine to coarse flint. (HEAD DEPOSITS)
			2.00	8.35		End of pit at 2.00 m

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **SA5**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516337.76 - 104573.53 Level: 4.80	Date 28/05/2014
Location: West Sussex		Dimensions (m): 2.00 × 0.60 Depth 2.00	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
			0.30	4.50		Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
			0.90	3.90		Light brown slightly clayey gravelly SILT. Gravel of angular to subrounded fine to coarse flint. (HEAD DEPOSITS)
			2.00	2.80		Soft brown gravelly sandy CLAY. Gravel is angular to subrounded, fine to coarse flint. Sand is medium to coarse (HEAD DEPOSITS).
						End of pit at 2.00 m

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **SA6**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516422.74 - 104516.26 Level: 5.05	Date 28/05/2014
Location: West Sussex		Dimensions (m): 1.90 × 0.60, Depth 2.00	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
			0.20	4.85		Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
			1.20	3.85		Light brown slightly clayey gravelly SILT. Gravel of angular to subrounded fine to coarse flint. (HEAD DEPOSITS)
			2.00	3.05		Light brown clayey GRAVEL. Gravel is angular to rounded, fine to coarse flint. (HEAD DEPOSITS) End of pit at 2.00 m

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Trial Pit Log

Trialpit No **SA7**

Sheet 1 of 1

Project Name: Sompting	Project No. 20612	Co-ords: 516535.98 - 104474.30 Level: 5.20	Date 28/05/2014
Location: West Sussex		Dimensions (m): 2.20 × 0.60, Depth 2.00	Scale 1:20
Client: Persimmon Homes South Coast			Logged PSS

Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
Depth	Type	Results				
			0.30	4.90		Brown slightly gravelly SILT. Gravel of subangular to subrounded, fine to medium flint. (MADE GROUND) (MADE GROUND)
			0.80	4.40		Light brown slightly clayey gravelly SILT. Gravel of angular to subrounded fine to coarse flint. (HEAD DEPOSITS)
			2.00	3.20		Light brown clayey GRAVEL. Gravel is angular to rounded, fine to coarse flint. (HEAD DEPOSITS) End of pit at 2.00 m

1 2 3 4

Remarks: Site cleared with Cable Avoidance Tool and Excavated with a JCB 3CX. No groundwater encountered.

Stability: Stable

Borehole Log

Borehole No. **CP101** Sheet 1 of 2

Project Name: Sompting	Project No. 20612	Co-ords: 516692.37 - 105342.94	Hole Type CP
Location: West Sussex		Level: 14.68	Scale 1:50
Client: Persimmon Homes South Coast		Dates: 21/05/2014 - 21/05/2014	Logged By PD

Back fill / Well	Water Strikes	Samples and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.02	14.66		Soft brown slightly gravelly silty CLAY. Gravel of angular fine to coarse flint. (MADE GROUND)
		0.50	D					Soft brown gravelly CLAY. Gravel of angular fine to coarse flints. (HEAD DEPOSITS)
		1.00	D		0.90	13.78		Stiff brown gravelly CLAY. Gravel of angular fine to coarse flints. (HEAD DEPOSITS)
		1.20	S	N=18 (3,4/5,4,4,5)	1.20			
		1.70	D		1.50	13.18		Stiff yellow white slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is angular to subangular fine to coarse chalk and flints. (HEAD DEPOSITS)
		2.20	S	N=29 (4,6/8,7,6,8)	2.20			
		2.70	D					
		3.20	S	N=50 (25 for 125mm/50 for 275mm) Casing=3.00m	3.20			
		3.70	D					
		4.20	S	N=22 (1,4/5,6,5,6) Casing=3.00m	4.20			
		4.70	D					
		5.20	S	N=20 (3,4/4,3,4,9) Casing=3.00m	5.20			
		6.00	D					
		6.50	S	N=23 (3,3/3,6,8,6) Casing=3.00m	6.50			
		7.50	D					
		8.00	U	Ublow=100	7.80	6.88		Brown fine to medium SAND. (HEAD DEPOSITS)
		8.50	D					
		9.00	D		9.00	5.68		Recovered as structureless CHALK composed of slightly sandy slightly gravelly clay. Gravel weak white and subangular to subrounded. (TARRANT CHALK MEMBER)
	▼	9.50	S	N=14 (1,2/2,3,4,5) Casing=9.00m	9.50			

Continued on next sheet

Remarks

Hand Inspection pit dug to 1.20 mbgl before comencement of drilling. Groundwater strike at 10.00 mbgl. No chiselling.

Borehole Log

Borehole No. **CP101** Sheet 2 of 2

Project Name: Sompting	Project No. 20612	Co-ords: 516692.37 - 105342.94	Hole Type CP
Location: West Sussex		Level: 14.68	Scale 1:50
Client: Persimmon Homes South Coast		Dates: 21/05/2014 - 21/05/2014	Logged By PD

Back fill / Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.50	D					
		11.00	S	N=85 (10,14/85 for 260mm) Casing=10.50m Water=10.00m	11.00			
		12.00	D					
		12.50	D		12.50			
		12.50	S	N=100 (9,11/100 for 275mm) Casing=11.50m Water=10.00m				
					13.00	1.68		End of borehole at 13.00 m

Remarks
Hand Inspection pit dug to 1.20 mbgl before comencement of drilling. Groundwater strike at 10.00 mbgl. No chiselling.

Borehole Log

Borehole No. **CP102** Sheet 1 of 2

Project Name: Sompting	Project No. 20612	Co-ords: 516549.98 - 105454.27	Hole Type CP
Location: West Sussex		Level: 18.81	Scale 1:50
Client: Persimmon Homes South Coast		Dates: 20/05/2014 - 20/05/2014	Logged By PD

Back fill / Well	Water Strikes	Samples and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.15	18.66		Stiff brown slightly gravelly silty CLAY. Gravel of angular fine to coarse flint. (MADE GROUND)
		0.50	D					
					0.70	18.11		Stiff brown gravelly CLAY. Gravel of angular fine to coarse flints. (HEAD DEPOSITS)
		1.00	D					Stiff yellow white slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is angular to subangular fine to coarse chalk and flints. (HEAD DEPOSITS)
		1.20	S	N=17 (4,3/4,5,4,4)	1.20			
		1.70	D					
		2.20	S	N=30 (10,14/7,8,7,8)	2.20			
		2.70	D					
		3.20	S	N=14 (7,8/4,3,3,4) Casing=3.00m	3.20			
		3.70	D					
		4.20	S	N=14 (2,3/3,4,3,4) Casing=3.00m	4.20			
		4.70	D					
		5.20	S	N=18 (4,7/8,4,3,3) Casing=3.00m	5.20			
		6.00	D					
		6.50	S	N=15 (2,2/2,2,3,8) Casing=3.00m	6.50			
		7.50	D					
		8.00	S	N=27 (2,4/3,5,8,11) Casing=3.00m	8.00			
					8.30	10.51		Recovered as structureless CHALK composed of slightly sandy slightly gravelly clay. Gravel weak white and subangular to subrounded. (TARRANT CHALK MEMBER)
		9.00	D					
		9.50	S	N=20 (2,3/3,4,5,8) Casing=3.00m	9.50			

Continued on next sheet

Remarks

Hand Inspection pit dug to 1.20 mbgl before comencement of drilling. Damp at 10.00 mbgl. Groundwater strike at 15.50 mbgl. No Chiselling.

Borehole Log

Borehole No. **CP102** Sheet 2 of 2

Project Name: Sompting	Project No. 20612	Co-ords: 516549.98 - 105454.27	Hole Type CP
Location: West Sussex		Level: 18.81	Scale 1:50
Client: Persimmon Homes South Coast		Dates: 20/05/2014 - 20/05/2014	Logged By PD

Back fill / Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.50	D					
		11.00	S	N=24 (2,4/4,5,7,8) Casing=3.00m Water=11.00m	11.00			
		12.00	D					
		12.50	S	N=31 (4,5/4,7,8,12) Casing=3.00m Water=11.00m	12.50			
	▼	13.50	D					
		14.00	S	N=41 (3,6/10,12,9,10) Casing=3.00m Water=13.50m	14.00			
					14.30	4.51		Recovered as structureless CHALK composed of slightly sandy slightly gravelly clay. Gravel weak white and subangular to subrounded. (TARRANT CHALK MEMBER)
		15.00	D					
		15.20	S	50 (8,13/50 for 145mm) Casing=3.00m Water=13.50m	15.20	3.61		End of borehole at 15.20 m
					15.20			

Remarks

Hand Inspection pit dug to 1.20 mbgl before comencement of drilling. Damp at 10.00 mbgl. Groundwater strike at 15.50 mbgl. No Chiselling.

Borehole Log

Borehole No. **CP103** Sheet 1 of 2

Project Name: Sompting	Project No. 20612	Co-ords: 516403.71 - 104971.32	Hole Type CP
Location: West Sussex		Level: 9.18	Scale 1:50
Client: Persimmon Homes South Coast		Dates: 22/05/2014 - 22/05/2014	Logged By PD

Back fill / Well	Water Strikes	Samples and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.02	9.16		Firm brown slightly gravelly CLAY. Gravel is angular to subangular fine to coarse flint. (MADE GROUND)
		0.50	D					
					0.70	8.48		Stiff brown gravelly CLAY. Gravel of angular fine to coarse flints. (HEAD DEPOSITS)
		1.00	D					Stiff yellow white slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is angular to subangular fine to coarse chalk and flints. (HEAD DEPOSITS)
		1.20	S	N=16 (2,3/4,3,4,5)	1.20			
		1.70	D					
					2.00	7.18		Medium dense brown fine to medium SAND. (HEAD DEPOSITS)
		2.20	S	N=19 (2,2/4,4,5,6)	2.20	6.98		Recovered as structureless CHALK composed of slightly sandy slightly gravelly clay. Gravel weak white and subangular to subrounded. (TARRANT CHALK MEMBER)
					2.20			
		2.70	D					
		3.20	S	N=13 (1,2/2,3,3,5) Casing=3.00m	3.20			
		3.70	D					
		4.20	S	N=19 (1,1/2,4,5,8) Casing=3.00m Water=3.70m	4.20			
		4.70	D					
		5.20	S	N=16 (1,2/2,3,5,6) Casing=4.50m Water=3.70m	5.20			
		6.00	D					
		6.50	S	N=27 (2,3/6,5,6,10) Casing=6.00m Water=3.70m	6.50			
	▼				6.70	2.48		Recovered as structureless CHALK composed of slightly sandy slightly gravelly clay. Gravel weak white and subangular to subrounded. (TARRANT CHALK MEMBER)
	▽	7.50	D		7.50	1.68		Recovered as structureless CHALK composed of slightly sandy slightly gravelly clay. Gravel weak white and subangular to subrounded. (TARRANT CHALK MEMBER)
		8.00	S	N=8 (1,2/2,2,2,2) Casing=7.50m Water=7.00m	8.00			
		9.00	D					
		9.50	S	N=23 (2,4/5,4,6,8) Casing=9.00m Water=7.00m	9.50			

Continued on next sheet

Remarks

Hand Inspection pit dug to 1.20 mbgl before comencement of drilling. Groundwater strike at 7.50 mbgl rising to 7.00 mbgl. No Chiselling.

Borehole Log

Borehole No. **CP103** Sheet 2 of 2

Project Name: Sompting	Project No. 20612	Co-ords: 516403.71 - 104971.32	Hole Type CP
Location: West Sussex		Level: 9.18	Scale 1:50
Client: Persimmon Homes South Coast		Dates: 22/05/2014 - 22/05/2014	Logged By PD

Back fill / Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.50	D					
		11.00	S	N=18 (8,6/5,3,4,6) Casing=10.50m Water=7.00m	11.00			
		12.00	D					
		12.50	S	N=41 (3,8/41 for 275mm) Casing=12.00m Water=7.00m	12.50			
		13.50	D					
		14.00	S	N=50 (5,10/9,14,17,10) Casing=13.50m Water=7.00m	14.00			
		15.00	S	N=50 (25 for 125mm/50 for 260mm) Casing=13.50m Water=7.00m	15.00 15.00	-5.82		End of borehole at 15.00 m

Remarks

Hand Inspection pit dug to 1.20 mbgl before comencement of drilling. Groundwater strike at 7.50 mbgl rising to 7.00 mbgl. No Chiselling.

Borehole Log

Borehole No. **CP104** Sheet 1 of 2

Project Name: Sompting	Project No. 20612	Co-ords: 516388.92 - 104695.39	Hole Type CP
Location: West Sussex		Level: 7.56	Scale 1:50
Client: Persimmon Homes South Coast		Dates: 23/05/2014 - 23/05/2014	Logged By PD

Back fill / Well	Water Strikes	Samples and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.50	D		0.50	7.06		Stiff brown slightly gravelly silty CLAY. Gravel of angular fine to coarse flint. (MADE GROUND)
		1.00	D					Stiff brown gravelly CLAY. Gravel of angular to subangular fine to coarse flints. (HEAD DEPOSITS)
		1.20	S	N=18 (7,6/5,4,4,5)	1.20			
		1.70	D					
					2.00	5.56		
		2.20	S	N=20 (2,3/4,5,5,6)	2.20			Medium dense brown slightly gravelly SAND. Sand is fine to medium. Gravel is angular to subangular fine to coarse flints. (HEAD DEPOSITS)
		2.70	D					
		3.20	S	N=16 (1,2/2,3,6,5) Water=3.00m	3.20			
		3.70	D					
					4.00	3.56		
		4.20	S	N=11 (1,1/2,2,3,4) Water=3.00m	4.20			Recovered as structureless CHALK composed of slightly sandy slightly gravelly clay. Gravel weak white and subangular to subrounded. (TARRANT CHALK MEMBER)
		4.70	D					
		5.20	S	N=18 (1,2/3,4,5,6) Water=4.50m	5.20			
	▼	6.00	D					
	▽	6.50	S	N=8 (1,0/2,1,2,3) Casing=6.00m Water=6.00m	6.50	1.06		Recovered as structureless CHALK composed of slightly sandy slightly gravelly clay. Gravel weak white and subangular to subrounded. (TARRANT CHALK MEMBER)
					6.50			
		7.50	D		7.50	0.06		Recovered as structureless CHALK composed of gravelly CLAY. Gtavel is weak white subangular to subrounded coarse flint. (TARRANT CHALK MEMBER)
		8.00	S	N=22 (1,2/6,6,7,3) Casing=6.00m Water=7.50m	8.00			
		9.00	D					
		9.50	S	N=5 (4,3/1,0,1,3) Casing=6.50m Water=9.00m	9.50			
								Continued on next sheet

Remarks

Hand Inspection pit dug to 1.20 mbgl before comencement of drilling. Groundwater strike at 6.50 mbgl rising to 6.00 mbgl. No Chiselling.

Borehole Log

Borehole No. **CP104** Sheet 2 of 2

Project Name: Sompting	Project No. 20612	Co-ords: 516388.92 - 104695.39	Hole Type CP
Location: West Sussex		Level: 7.56	Scale 1:50
Client: Persimmon Homes South Coast		Dates: 23/05/2014 - 23/05/2014	Logged By PD

Back fill / Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.50	D					
		11.00	S	N=5 (1,2/1,1,1,2) Casing=6.50m Water=10.50m	11.00			
		12.00	D					
		12.50	S	N=22 (3,4/6,5,5,6) Casing=7.00m Water=12.00m	12.50			
		13.50	D					
		14.00	S	N=28 (4,6/7,6,7,8) Casing=6.00m Water=13.50m	14.00			
		15.50	S	N=38 (6,5/6,8,10,14) Casing=6.00m Water=15.00m	15.50			
		17.00	S	N=45 (5,6/9,10,11,15) Casing=6.00m Water=15.00m	17.00			
		18.00	S	N=50 (8,10/50 for 275mm) Casing=6.00m Water=15.00m	18.00			
					18.50	-10.94		End of borehole at 18.50 m

Remarks

Hand Inspection pit dug to 1.20 mbgl before comencement of drilling. Groundwater strike at 6.50 mbgl rising to 6.00 mbgl. No Chiselling.

Borehole Log

Borehole No. **CP105** Sheet 1 of 2

Project Name: Sompting	Project No. 20612	Co-ords: 516543.86 - 104531.07	Hole Type CP
Location: West Sussex		Level: 7.65	Scale 1:50
Client: Persimmon Homes South Coast		Dates: 27/05/2014 - 27/05/2014	Logged By PD

Back fill / Well	Water Strikes	Samples and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		0.50	D		0.70	6.95		Stiff brown slightly gravelly silty CLAY. Gravel of angular fine to coarse flint. (MADE GROUND)
		1.00	D					Stiff brown gravelly CLAY. Gravel is subangular to subrounded fine to coarse flint. (HEAD DEPOSITS)
		1.20	S	N=21 (6,5/6,4,4,7)	1.20			
					1.30	6.35		Brown slightly gravelly clayey SAND. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse chalk and flint. (HEAC DEPOSITS)
		1.70	D					
		2.20	S	N=15 (1,2/3,4,4,4)	2.20			
		2.70	D					
		3.20	S	N=13 (7,8/3,3,4,3) Casing=3.00m	3.20			
		3.70	D		3.70	3.95		Brown slightly gravelly SAND. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse chalk and flint. (HEAC DEPOSITS)
					4.00	3.65		Brown slightly gravelly SAND. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse chalk and flint. (HEAC DEPOSITS)
		4.20	S	N=12 (1,2/2,3,3,4) Casing=3.00m	4.20			
		4.70	D					
		5.20	S	N=18 (1,0/2,4,6,6) Casing=4.50m Water=5.20m	5.20			
	▼	6.00	D		6.00	1.65		Recovered as structurless CHALK composed of slightly gravelly CLAY. Gravel is weak white subangular to subrounded fine to medium chalk. (TARRANT CHALK MEMBER)
	▽	6.50	S	N=7 (1,0/1,2,2,2) Casing=6.00m Water=6.00m	6.50	1.15		
					6.50			Recovered as structureless CHALK composed of gravelly CLAY. White gravel of weak subangular to subrounded chalk with occasional flints. (TARRANT CHALK MEMBER)
		7.50	D					
		8.00	S	N=8 (1,1/1,2,2,3) Casing=7.50m Water=6.00m	8.00			
		9.00	D					
		9.50	S	N=7 (1,0/2,2,1,2) Casing=9.00m Water=6.00m	9.50			

Continued on next sheet

Remarks

Hand Inspection pit dug to 1.20 mbgl before comencement of drilling. Groundwater strike at 6.50 mbgl rising to 6.00 mbgl. No Chiselling.

Borehole Log

Borehole No. **CP105** Sheet 2 of 2

Project Name: Sompting	Project No. 20612	Co-ords: 516543.86 - 104531.07	Hole Type CP
Location: West Sussex		Level: 7.65	Scale 1:50
Client: Persimmon Homes South Coast		Dates: 27/05/2014 - 27/05/2014	Logged By PD

Back fill / Well	Water Strikes	Samples and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
		10.50	D					
		11.00	S	N=12 (1,1/2,3,3,4) Casing=10.50m Water=6.00m	11.00			
		12.00	D					
		12.50	S	N=17 (1,2/3,3,5,6) Casing=12.00m Water=6.50m	12.50			
		13.50	D					
		14.00	S	N=20 (2,4/5,4,5,6) Casing=13.50m Water=6.50m	14.00			
		15.50	S	N=33 (3,6/6,8,9,10) Casing=15.00m Water=6.50m	15.50			
		17.00	S	N=34 (6,5/6,8,8,12) Casing=16.50m Water=6.50m	17.00			
		18.50	S	N=38 (5,7/8,8,9,13) Casing=16.50m Water=6.50m	18.50			
		19.50	S	N=46 (4,8/9,10,12,15) Casing=16.50m Water=6.50m	19.50 19.50	-11.85		End of borehole at 19.50 m

11 12 13 14 15 16 17 18 19 20

Remarks

Hand Inspection pit dug to 1.20 mbgl before comencement of drilling. Groundwater strike at 6.50 mbgl rising to 6.00 mbgl. No Chiselling.

Borehole Log

Borehole No. **CP106**

Sheet 1 of 2

Project Name: Sompting	Project No. 20612	Co-ords: 516722.41 - 104682.33	Hole Type CP
Location: West Sussex		Level: 7.72	Scale 1:50
Client: Persimmon Homes South Coast		Dates: 28/05/2014 - 28/05/2014	Logged By PD

Back fill / Well	Water Strikes	Samples and In Situ Testing: Depth (m)	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
					0.30	7.42		Stiff brown gravelly CLAY. Gravel is subangular to subrounded fine to coarse flint. (MADE GROUND)
		0.50	D					Stiff brown gravelly CLAY. Gravel is subangular to subrounded fine to coarse flint and chalk. (HEAD DEPOSITS)
		1.00	D					
		1.20	S	N=14 (2,3/3,3,3,5)	1.10 1.20	6.62		Stiff brown gravelly CLAY. Gravel is subangular to subrounded fine to coarse chalk. (HEAD DEPOSITS)
		1.70	D					
		2.00	U	Ublow=55				
		2.50	D		2.30	5.42		Soft to firm slightly gravelly CLAY. Gravel is subangular to subrounded fine to coarse chalk and flints. (HEAD DEPOSITS)
		3.00	S	N=10 (2,3/1,2,3,4) Casing=3.00m	3.00			
		3.50	D					
		4.00	S	N=19 (2,4/4,4,5,6) Casing=3.00m	4.00			
		4.50	D					
		5.00	S	N=7 (1,0/2,2,1,2) Casing=4.50m	4.90 5.00	2.82		Recover ad structureless CHALK composed of slightly gravelly CLAY. Gravel is weak white subangular to subrounded fine to coarse chalk. (TARRANT CHALK MEMBER)
					5.50	2.22		Recovered as structureless CHALK composed of slightly sandy slightly gravelly clay. Gravel weak white and subangular to subrounded. (TARRANT CHALK MEMBER)
		6.00	D					
	▼	6.50	U	Ublow=25				
		7.00	D					
		7.50	D					
		8.00	S	N=4 (1,0/1,1,1,1) Casing=7.50m Water=6.00m	8.00			
		9.00	D					
		9.50	S	N=6 (1,0/1,2,1,2) Casing=9.00m Water=7.50m	9.50			

Continued on next sheet

Remarks

Hand Inspection pit dug to 1.20 mbgl before comencement of drilling. Groundwater strike at 7.00 mbgl rising to 6.50 mbgl. No Chiselling.

Borehole Log

Borehole No. **CP106** Sheet 2 of 2

Project Name: Sompting	Project No. 20612	Co-ords: 516722.41 - 104682.33	Hole Type CP
Location: West Sussex		Level: 7.72	Scale 1:50
Client: Persimmon Homes South Coast		Dates: 28/05/2014 - 28/05/2014	Logged By PD

Back fill / Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		10.50	D					
		11.00	S	N=6 (1,1/1,1,1,3) Casing=10.50m Water=7.00m	11.00			
		12.00	D					
		12.50	S	N=11 (3,2/1,2,3,5) Casing=12.00m Water=7.00m	12.50			
		13.50	D					
		14.00	S	N=21 (4,5/5,5,5,6) Casing=13.50m Water=7.50m	14.00			
		15.50	S	N=29 (4,6/6,6,8,9) Casing=15.00m Water=7.50m	15.50			
		17.00	S	N=40 (5,6/10,10,10,10) Casing=16.50m Water=7.50m	17.00			
		18.50	S	N=36 (4,6/7,8,10,11) Casing=16.50m Water=7.50m	18.50			
		19.50	S	N=39 (3,7/8,9,10,12) Casing=16.50m Water=7.50m	19.50 19.50	-11.78		End of borehole at 19.50 m

Remarks

Hand Inspection pit dug to 1.20 mbgl before comencement of drilling. Groundwater strike at 7.00 mbgl rising to 6.50 mbgl. No Chiselling.

APPENDIX V

CHEMICAL TESTING RESULTS

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

Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Tel : 01376 560120
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Report Number: 377186-1

Date of Report: 20-Feb-2014

Customer: Resource Environmental Consultants Ltd
Environment House
Segensworth Business Centre
Segensworth Road (West)
Fareham
PO15 5RQ

Customer Contact: Dr Adrian King

Customer Job Reference: 20612
Customer Site Reference: Sompting, West Sussex
Date Job Received at SAL: 14-Feb-2014
Date Analysis Started: 14-Feb-2014
Date Analysis Completed: 20-Feb-2014

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

UKAS TESTING
1650

Report checked
and authorised by :
Miss Claire Brown
Customer Service Manager

Issued by :
Miss Claire Brown
Customer Service Manager

SAL Reference: 377186
Project Site: Sompting, West Sussex
Customer Reference: 20612

Soil Analysed as Soil
REC002 (SE)

				SAL Reference	**377186 001**	**377186 002**	**377186 003**	**377186 004**	**377186 005**
				Customer Sample Reference	**WS101 - ES1 @ 0.30m**	**WS103 - ES2 @ 0.80m**	**WS105 - ES1 @ 0.40m**	**WS107 - ES2 @ 0.70m**	**WS109 - ES1 @ 0.20m**
				Date Sampled	**12-FEB-2014**	**12-FEB-2014**	**11-FEB-2014**	**10-FEB-2014**	**10-FEB-2014**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Arsenic	T257	A40	2.0	mg/kg	**11**	**15**	**9.1**	**11**	**8.0**
Cadmium	T257	A40	0.1	mg/kg	**0.6**	**0.7**	**0.6**	**0.1**	**0.3**
Chromium	T257	A40	0.5	mg/kg	**19**	**28**	**19**	**24**	**16**
Copper	T257	A40	2	mg/kg	**18**	**20**	**23**	**16**	**13**
Lead	T257	A40	2	mg/kg	**48**	**16**	**28**	**13**	**25**
Mercury	T245	A40	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0
Nickel	T257	A40	0.5	mg/kg	**18**	**34**	**21**	**21**	**13**
Selenium	T257	A40	3	mg/kg	<3	<3	<3	<3	<3
Zinc	T257	A40	2	mg/kg	**59**	**65**	**68**	**46**	**43**
Asbestos ID	T27	A40			Asbestos not detected **-**	Asbestos not detected **-**	Asbestos not detected **-**	Asbestos not detected **-**	Asbestos not detected **-**
Chromium VI	T82	A40	1	mg/kg	<1	<1	<1	<1	<1
pH	T7	A40			**7.3**	**7.2**	**7.8**	**8.1**	**6.5**
SO4(Total)	T102	A40	0.01	%	**0.09**	**0.04**	**0.07**	**0.02**	**0.05**
(Water Soluble) SO4-- expressed as SO4	T242	A40	0.01	g/l	**0.02**	**0.01**	**0.01**	**0.01**	**0.01**
Cyanide(Total)	T4	AR	1	mg/kg	<1	<1	<1	<1	<1
Phenols(Mono)	T4	AR	0.5	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5

SAL Reference: 377186
Project Site: Sompting, West Sussex
Customer Reference: 20612

Soil Analysed as Soil
REC002 (SE)

				SAL Reference	**377186 006**	**377186 007**
				Customer Sample Reference	**WS111 - ES2 @ 0.50-0.70m**	**WS113 - ES1 @ 0.30m**
				Date Sampled	**10-FEB-2014**	**11-FEB-2014**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Arsenic	T257	A40	2.0	mg/kg	**12**	**11**
Cadmium	T257	A40	0.1	mg/kg	**0.1**	**0.8**
Chromium	T257	A40	0.5	mg/kg	**26**	**19**
Copper	T257	A40	2	mg/kg	**18**	**22**
Lead	T257	A40	2	mg/kg	**15**	**110**
Mercury	T245	A40	1.0	mg/kg	<1.0	<1.0
Nickel	T257	A40	0.5	mg/kg	**23**	**12**
Selenium	T257	A40	3	mg/kg	<3	<3
Zinc	T257	A40	2	mg/kg	**52**	**240**
Asbestos ID	T27	A40			Asbestos not detected **-**	Asbestos not detected **-**
Chromium VI	T82	A40	1	mg/kg	<1	<1
pH	T7	A40			**7.1**	**9.0**
SO4(Total)	T102	A40	0.01	%	**0.04**	**0.23**
(Water Soluble) SO4-- expressed as SO4	T242	A40	0.01	g/l	**0.01**	**0.17**
Cyanide(Total)	T4	AR	1	mg/kg	<1	<1
Phenols(Mono)	T4	AR	0.5	mg/kg	<0.5	<0.5

SAL Reference: 377186
Project Site: Sompting, West Sussex
Customer Reference: 20612

Soil Analysed as Soil
pH, Sulphate

SAL Reference					**377186 008**	**377186 009**	**377186 010**	**377186 011**	**377186 012**	**377186 013**
Customer Sample Reference					**WS102 - D1 @ 1.80m**	**WS104 - D3 @ 2.80m**	**WS106 - D3 @ 3.20m**	**WS108 - D3 @ 2.70m**	**WS110 - D5 @ 4.70m**	**WS112 - D1 @ 1.30m**
Date Sampled					**12-FEB-2014**	**12-FEB-2014**	**11-FEB-2014**	**10-FEB-2014**	**10-FEB-2014**	**10-FEB-2014**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**						
(Water Soluble) SO4-- expressed as SO4	T242	A40	0.01	g/l	**0.01**	<0.01	**0.01**	**0.01**	<0.01	**0.01**
pH	T7	A40			**7.1**	**8.2**	**8.9**	**9.0**	**9.0**	**8.1**

SAL Reference: 377186
Project Site: Sompting, West Sussex
Customer Reference: 20612

Soil Analysed as Soil
Sulphur

SAL Reference					**377186 002**	**377186 004**	**377186 006**
Customer Sample Reference					**WS103 - ES2 @ 0.80m**	**WS107 - ES2 @ 0.70m**	**WS111 - ES2 @ 0.50-0.70m**
Date Sampled					**12-FEB-2014**	**10-FEB-2014**	**10-FEB-2014**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Sulphur (total)	T6	A40	0.01	%	**0.01**	**0.01**	**0.01**

SAL Reference: 377186
Project Site: Sompting, West Sussex
Customer Reference: 20612

Soil Analysed as Soil
Total and Speciated USEPA16 PAH (SE)

SAL Reference					**377186 001**	**377186 002**	**377186 003**	**377186 004**	**377186 005**
Customer Sample Reference					**WS101 - ES1 @ 0.30m**	**WS103 - ES2 @ 0.80m**	**WS105 - ES1 @ 0.40m**	**WS107 - ES2 @ 0.70m**	**WS109 - ES1 @ 0.20m**
Date Sampled					**12-FEB-2014**	**12-FEB-2014**	**11-FEB-2014**	**10-FEB-2014**	**10-FEB-2014**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
Naphthalene	T16	AR	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	T16	AR	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	T16	AR	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Fluorene	T16	AR	0.1	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Phenanthrene	T16	AR	0.1	mg/kg	**0.8**	<0.1	**0.2**	<0.1	<0.1
Anthracene	T16	AR	0.1	mg/kg	**0.2**	<0.1	<0.1	<0.1	<0.1
Fluoranthene	T16	AR	0.1	mg/kg	**2.3**	<0.1	**0.8**	<0.1	<0.1
Pyrene	T16	AR	0.1	mg/kg	**2.1**	<0.1	**0.8**	<0.1	<0.1
Benzo(a)Anthracene	T16	AR	0.1	mg/kg	**1.0**	<0.1	**0.4**	<0.1	<0.1
Chrysene	T16	AR	0.1	mg/kg	**1.4**	<0.1	**0.6**	<0.1	<0.1
Benzo(b/k)Fluoranthene	T16	AR	0.1	mg/kg	**1.6**	<0.1	**0.6**	<0.1	<0.1
Benzo(a)Pyrene	T16	AR	0.1	mg/kg	**0.9**	<0.1	**0.3**	<0.1	<0.1
Indeno(123-cd)Pyrene	T16	AR	0.1	mg/kg	**0.6**	<0.1	**0.2**	<0.1	<0.1
Dibenzo(ah)Anthracene	T16	AR	0.1	mg/kg	**0.3**	<0.1	**0.1**	<0.1	<0.1
Benzo(ghi)Perylene	T16	AR	0.1	mg/kg	**0.6**	<0.1	**0.2**	<0.1	<0.1
PAH(total)	T16	AR	0.1	mg/kg	**12**	<0.1	**4.2**	<0.1	<0.1

SAL Reference: 377186
Project Site: Sompting, West Sussex
Customer Reference: 20612

Soil Analysed as Soil
Total and Speciated USEPA16 PAH (SE)

				SAL Reference	**377186 006**	**377186 007**
				Customer Sample Reference	**WS111 - ES2 @ 0.50-0.70m**	**WS113 - ES1 @ 0.30m**
				Date Sampled	**10-FEB-2014**	**11-FEB-2014**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Naphthalene	T16	AR	0.1	mg/kg	<0.1	**0.2**
Acenaphthylene	T16	AR	0.1	mg/kg	<0.1	**0.5**
Acenaphthene	T16	AR	0.1	mg/kg	<0.1	**0.3**
Fluorene	T16	AR	0.1	mg/kg	<0.1	**0.2**
Phenanthrene	T16	AR	0.1	mg/kg	<0.1	**4.0**
Anthracene	T16	AR	0.1	mg/kg	<0.1	**1.6**
Fluoranthene	T16	AR	0.1	mg/kg	<0.1	**14**
Pyrene	T16	AR	0.1	mg/kg	<0.1	**17**
Benzo(a)Anthracene	T16	AR	0.1	mg/kg	<0.1	**10**
Chrysene	T16	AR	0.1	mg/kg	<0.1	**15**
Benzo(b/k)Fluoranthene	T16	AR	0.1	mg/kg	<0.1	**29**
Benzo(a)Pyrene	T16	AR	0.1	mg/kg	<0.1	**17**
Indeno(123-cd)Pyrene	T16	AR	0.1	mg/kg	<0.1	**13**
Dibenzo(ah)Anthracene	T16	AR	0.1	mg/kg	<0.1	**5.4**
Benzo(ghi)Perylene	T16	AR	0.1	mg/kg	<0.1	**13**
PAH(total)	T16	AR	0.1	mg/kg	<0.1	**140**

SAL Reference: 377186
Project Site: Sompting, West Sussex
Customer Reference: 20612

Soil Analysed as Soil
Phenoxy Acetic acid herbicides

				SAL Reference	**377186 005**	**377186 006**
				Customer Sample Reference	**WS109 - ES1 @ 0.20m**	**WS111 - ES2 @ 0.50 -0.70m**
				Date Sampled	**10-FEB-2014**	**10-FEB-2014**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**		
Phenoxy Acetic acid herbicide: 2,4,5-T	T16	AR	0.01	mg/kg	<0.01	<0.01
Phenoxy Acetic acid herbicide: 2,4-D	T16	AR	0.01	mg/kg	**0.01**	<0.01
Dichlorprop	T16	AR	0.01	mg/kg	<0.01	<0.01
Fenoprop	T16	AR	0.01	mg/kg	<0.01	<0.01
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.01	mg/kg	<0.01	<0.01
Mecoprop	T16	AR	0.01	mg/kg	<0.01	<0.01

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Project Site: Sompting, West Sussex
Customer Reference: 20612

Soil Analysed as Soil
Suite C

				SAL Reference	**377186 002**	**377186 003**	**377186 007**
				Customer Sample Reference	**WS103 - ES2 @ 0.80m**	**WS105 - ES1 @ 0.40m**	**WS113 - ES1 @ 0.30m**
				Date Sampled	**12-FEB-2014**	**11-FEB-2014**	**11-FEB-2014**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
TPH (C5-C6)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10
TPH (C6-C8)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10
TPH (C8-C10)	T54	AR	0.10	mg/kg	<0.10	<0.10	<0.10
TPH (C10-C12)	T219	AR	2	mg/kg	<2	<2	<2
TPH (C12-C16)	T219	AR	2	mg/kg	<2	<2	<2
TPH (C16-C21)	T219	AR	2	mg/kg	<2	<2	**190**
TPH (C21-C35)	T219	AR	2	mg/kg	<2	<2	**470**

SAL Reference: 377186
Project Site: Sompting, West Sussex
Customer Reference: 20612

Soil Analysed as Solid
MRPS by GC (small)

	SAL Reference	**377186 014**	**377186 015**
	Customer Sample Reference	**WS109 - ES1 @ 0.20m**	**WS111 - ES2 @ 0.50-0.70m**
	Date Sampled	**10-FEB-2014**	**10-FEB-2014**

Determinand	Method	Test Sample	LOD	Units		
1,2,3,6-Tetrahydrophthalimide expressed as Captan	T210	AR	0.01	mg/kg	<0.01	<0.01
2,4,6-Trichlorophenol	T210	AR	0.01	mg/kg	<0.01	<0.01
2-Phenylphenol	T210	AR	0.01	mg/kg	<0.01	<0.01
4,4-Dichlorobenzophenone	T210	AR	0.01	mg/kg	<0.01	<0.01
Acetochlor	T210	AR	0.01	mg/kg	<0.01	<0.01
Aclonifen	T210	AR	0.01	mg/kg	<0.01	<0.01
Acrinathrin	T210	AR	0.01	mg/kg	<0.01	<0.01
Alachlor	T210	AR	0.01	mg/kg	<0.01	<0.01
Aldrin	T210	AR	0.01	mg/kg	<0.01	<0.01
Ametryn	T210	AR	0.01	mg/kg	<0.01	<0.01
Atraton	T210	AR	0.01	mg/kg	<0.01	<0.01
Atrazine	T210	AR	0.01	mg/kg	<0.01	<0.01
Atrazine desethyl	T210	AR	0.01	mg/kg	<0.01	<0.01
Azaconazole	T210	AR	0.01	mg/kg	<0.01	<0.01
Azoxystrobin	T210	AR	0.01	mg/kg	<0.01	<0.01
Benalaxyl	T210	AR	0.01	mg/kg	<0.01	<0.01
Bifenox	T210	AR	0.01	mg/kg	<0.01	<0.01
Bifenthrin	T210	AR	0.01	mg/kg	<0.01	<0.01
Binapacryl	T210	AR	0.01	mg/kg	<0.01	<0.01
Biphenyl	T210	AR	0.01	mg/kg	<0.01	<0.01
Bitertanol	T210	AR	0.01	mg/kg	<0.01	<0.01
Boscalid	T210	AR	0.01	mg/kg	**0.01**	<0.01
Bromacil	T210	AR	0.01	mg/kg	<0.01	<0.01
Bromophos	T210	AR	0.01	mg/kg	<0.01	<0.01
Bromophos-Ethyl	T210	AR	0.01	mg/kg	<0.01	<0.01
Bromopropylate	T210	AR	0.01	mg/kg	<0.01	<0.01
Bromuconazole	T210	AR	0.01	mg/kg	<0.01	<0.01
Bupirimate	T210	AR	0.01	mg/kg	<0.01	<0.01
Buprofezine	T210	AR	0.01	mg/kg	<0.01	<0.01
Butachlor	T210	AR	0.01	mg/kg	<0.01	<0.01
Cadusafos	T210	AR	0.01	mg/kg	<0.01	<0.01
Captafol	T210	AR	0.02	mg/kg	<0.02	<0.02
Carbaryl	T210	AR	0.01	mg/kg	<0.01	<0.01
Carbofuran	T210	AR	0.01	mg/kg	<0.01	<0.01
Carbophenothion	T210	AR	0.01	mg/kg	<0.01	<0.01
Carboxine	T210	AR	0.01	mg/kg	<0.01	<0.01
Carfentrazone Ethyl	T210	AR	0.01	mg/kg	<0.01	<0.01
Chlorbenzilate	T210	AR	0.01	mg/kg	<0.01	<0.01
Chlordane (oxy)	T210	AR	0.01	mg/kg	<0.01	<0.01
Chlordane	T210	AR	0.01	mg/kg	<0.01	<0.01
Chlordimeform	T210	AR	0.01	mg/kg	(138) <0.01	(138) <0.01
Chlorethoxyfos	T210	AR	0.01	mg/kg	<0.01	<0.01
Chlorfenapyr	T210	AR	0.01	mg/kg	<0.01	<0.01
Chlorfenson	T210	AR	0.01	mg/kg	<0.01	<0.01
Chlorfenvinfos	T210	AR	0.01	mg/kg	<0.01	<0.01
Chlorfenvinphos	T210	AR	0.01	mg/kg	<0.01	<0.01
Chlormephos	T210	AR	0.01	mg/kg	<0.01	<0.01
Chloropropylate	T210	AR	0.01	mg/kg	<0.01	<0.01
Chlorothalonil	T210	AR	0.01	mg/kg	<0.01	<0.01
Chlorpropham	T210	AR	0.01	mg/kg	<0.01	<0.01
Chlorpyrifos	T210	AR	0.01	mg/kg	<0.01	<0.01
Chlorpyrifos methyl	T210	AR	0.01	mg/kg	<0.01	<0.01
Chlorthal Dimethyl	T210	AR	0.01	mg/kg	<0.01	<0.01
Chlorthion	T210	AR	0.01	mg/kg	<0.01	<0.01
Chlorthiophos	T210	AR	0.01	mg/kg	<0.01	<0.01
Chlozolinate	T210	AR	0.01	mg/kg	<0.01	<0.01
Clodinafop propargy	T210	AR	0.01	mg/kg	<0.01	<0.01
Clomazone	T210	AR	0.01	mg/kg	<0.01	<0.01
Cloquintocet mexyl	T210	AR	0.01	mg/kg	<0.01	<0.01

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Customer Reference: 20612

Soil Analysed as Solid
MRPS by GC (small)

	SAL Reference	**377186 014**	**377186 015**
	Customer Sample Reference	**WS109 - ES1 @ 0.20m**	**WS111 - ES2 @ 0.50-0.70m**
	Date Sampled	**10-FEB-2014**	**10-FEB-2014**

Determinand	Method	Test Sample	LOD	Units		
Coumaphos	T210	AR	0.01	mg/kg	<0.01	<0.01
Cyflufenamid	T210	AR	0.01	mg/kg	<0.01	<0.01
Cyfluthrin	T210	AR	0.01	mg/kg	<0.01	<0.01
Cypermethrin	T210	AR	0.01	mg/kg	<0.01	<0.01
Cyproconazole	T210	AR	0.01	mg/kg	<0.01	<0.01
Cyprodinil	T210	AR	0.01	mg/kg	<0.01	<0.01
DDT (sum of pp'DDT, op'DDT, pp'TDE, p'TDE and pp'DDE)	T210	AR	0.01	mg/kg	<0.01	<0.01
Deltamethrin	T210	AR	0.01	mg/kg	<0.01	<0.01
Desmetryn	T210	AR	0.01	mg/kg	<0.01	<0.01
Diafenthiuron	T210	AR	0.01	mg/kg	(138) <0.01	(138) <0.01
Dialifos	T210	AR	0.01	mg/kg	<0.01	<0.01
Diazinon	T210	AR	0.01	mg/kg	<0.01	<0.01
Dichlorvos	T210	AR	0.01	mg/kg	<0.01	<0.01
Diclobutrazol	T210	AR	0.01	mg/kg	<0.01	<0.01
Dicloran	T210	AR	0.01	mg/kg	<0.01	<0.01
Dicofol	T210	AR	0.01	mg/kg	(138) <0.01	(138) <0.01
Dieldrin	T210	AR	0.01	mg/kg	<0.01	<0.01
Difenoconazole	T210	AR	0.01	mg/kg	<0.01	<0.01
Diflufenican	T210	AR	0.01	mg/kg	<0.01	<0.01
Dimethenamid	T210	AR	0.01	mg/kg	<0.01	<0.01
Dimethomorph	T210	AR	0.01	mg/kg	<0.01	<0.01
Dimoxystrobin	T210	AR	0.01	mg/kg	<0.01	<0.01
Diphenamid	T210	AR	0.01	mg/kg	<0.01	<0.01
Diphenylamine	T210	AR	0.01	mg/kg	<0.01	<0.01
Disulfoton	T210	AR	0.01	mg/kg	<0.01	<0.01
Ditalimfos	T210	AR	0.01	mg/kg	<0.01	<0.01
Edifenphos	T210	AR	0.01	mg/kg	<0.01	<0.01
Endosulphan (sum of alpha, beta and sulphate)	T210	AR	0.01	mg/kg	<0.01	<0.01
Endosulphan alpha	T210	AR	0.01	mg/kg	<0.01	<0.01
Endosulphan beta	T210	AR	0.01	mg/kg	<0.01	<0.01
Endosulphan sulphate	T210	AR	0.01	mg/kg	<0.01	<0.01
Endrin	T210	AR	0.01	mg/kg	<0.01	<0.01
Epn	T210	AR	0.01	mg/kg	<0.01	<0.01
Epoxiconazole	T210	AR	0.01	mg/kg	<0.01	<0.01
EPTC	T210	AR	0.01	mg/kg	<0.01	<0.01
Etaconazole	T210	AR	0.01	mg/kg	<0.01	<0.01
Ethion	T210	AR	0.01	mg/kg	<0.01	<0.01
Ethofumesate	T210	AR	0.01	mg/kg	<0.01	<0.01
Ethoprophos	T210	AR	0.01	mg/kg	<0.01	<0.01
Ethoxyquin	T210	AR	0.01	mg/kg	<0.01	<0.01
Etofenprox	T210	AR	0.01	mg/kg	<0.01	<0.01
Etoxazole	T210	AR	0.01	mg/kg	<0.01	<0.01
Etridiazole	T210	AR	0.01	mg/kg	<0.01	<0.01
Etrimfos	T210	AR	0.01	mg/kg	<0.01	<0.01
Famoxadone	T210	AR	0.01	mg/kg	<0.01	<0.01
Famphur	T210	AR	0.01	mg/kg	(138) <0.01	(138) <0.01
Fenamidone	T210	AR	0.01	mg/kg	<0.01	<0.01
Fenamiphos	T210	AR	0.01	mg/kg	<0.01	<0.01
Fenarimol	T210	AR	0.01	mg/kg	<0.01	<0.01
Fenbuconazole	T210	AR	0.01	mg/kg	<0.01	<0.01
Fenchlorphos	T210	AR	0.01	mg/kg	<0.01	<0.01
Fenitrothion	T210	AR	0.01	mg/kg	<0.01	<0.01
Fenpiclonil	T210	AR	0.01	mg/kg	<0.01	<0.01
Fenpropathrin	T210	AR	0.01	mg/kg	<0.01	<0.01
Fenson	T210	AR	0.01	mg/kg	<0.01	<0.01
Fensulfothion	T210	AR	0.01	mg/kg	<0.01	<0.01
Fenthion	T210	AR	0.01	mg/kg	<0.01	<0.01
Fenvalerate	T210	AR	0.01	mg/kg	<0.01	<0.01
Fipronil	T210	AR	0.01	mg/kg	<0.01	<0.01

SAL Reference: 377186
Project Site: Sompting, West Sussex
Customer Reference: 20612

Soil Analysed as Solid
MRPS by GC (small)

					SAL Reference	377186 014	377186 015
					Customer Sample Reference	WS109 - ES1 @ 0.20m	WS111 - ES2 @ 0.50-0.70m
					Date Sampled	10-FEB-2014	10-FEB-2014
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Flamprop isopropyl	T210	AR	0.01	mg/kg		<0.01	<0.01
Fluazifop-P-Butyl	T210	AR	0.01	mg/kg		<0.01	<0.01
Flucythrinate	T210	AR	0.01	mg/kg		<0.01	<0.01
Fludioxonil	T210	AR	0.01	mg/kg		<0.01	<0.01
Flufenacet	T210	AR	0.01	mg/kg		<0.01	<0.01
Flumetralin	T210	AR	0.01	mg/kg		<0.01	<0.01
Flumioxazin	T210	AR	0.01	mg/kg		<0.01	<0.01
Fluorochloridone	T210	AR	0.01	mg/kg		<0.01	<0.01
Fluquinconazole	T210	AR	0.01	mg/kg		<0.01	<0.01
Fluroxypyr-1-methylheptyl ester	T210	AR	0.01	mg/kg		<0.01	<0.01
Flurtamone	T210	AR	0.01	mg/kg		<0.01	<0.01
Flusilazole	T210	AR	0.01	mg/kg		<0.01	<0.01
Flutolanil	T210	AR	0.01	mg/kg		<0.01	<0.01
Fluvalinate	T210	AR	0.01	mg/kg		<0.01	<0.01
Fonophos	T210	AR	0.01	mg/kg		<0.01	<0.01
Formothion	T210	AR	0.01	mg/kg		<0.01	<0.01
Furalaxyl	T210	AR	0.01	mg/kg		<0.01	<0.01
Furathiocarb	T210	AR	0.01	mg/kg		<0.01	<0.01
Furmecyclox	T210	AR	0.01	mg/kg		<0.01	<0.01
Haloxyfop etotyl	T210	AR	0.01	mg/kg		<0.01	<0.01
Haloxyfop Methyl	T210	AR	0.01	mg/kg		<0.01	<0.01
Heptachlor	T210	AR	0.01	mg/kg		<0.01	<0.01
Heptachlor epoxide	T210	AR	0.01	mg/kg		<0.01	<0.01
Heptachlor exo Epoxide	T210	AR	0.01	mg/kg		<0.01	<0.01
Heptenophos	T210	AR	0.01	mg/kg		<0.01	<0.01
Hexachlorobenzene	T210	AR	0.01	mg/kg		<0.01	<0.01
Hexachlorocyclohexane	T210	AR	0.01	mg/kg		<0.01	<0.01
Hexaconazole	T210	AR	0.01	mg/kg		<0.01	<0.01
Hexazinone	T210	AR	0.01	mg/kg		<0.01	<0.01
Iodofenphos	T210	AR	0.01	mg/kg		<0.01	<0.01
Iprodione	T210	AR	0.01	mg/kg		<0.01	<0.01
Isazofos	T210	AR	0.01	mg/kg		<0.01	<0.01
Isocarbophos	T210	AR	0.01	mg/kg		<0.01	<0.01
Isofenphos	T210	AR	0.01	mg/kg		<0.01	<0.01
Isofenphos Methyl	T210	AR	0.01	mg/kg		<0.01	<0.01
Isomethiozin	T210	AR	0.01	mg/kg		<0.01	<0.01
Kresoxim Methyl	T210	AR	0.01	mg/kg		<0.01	<0.01
Lambda Cyhalothrin	T210	AR	0.01	mg/kg		<0.01	<0.01
Lenacil	T210	AR	0.01	mg/kg		<0.01	<0.01
Lindane	T210	AR	0.01	mg/kg		<0.01	<0.01
Malathion	T210	AR	0.01	mg/kg		(138) <0.01	(138) <0.01
Mecarbam	T210	AR	0.01	mg/kg		<0.01	<0.01
Mefenoxam	T210	AR	0.01	mg/kg		<0.01	<0.01
Mepanipyrim	T210	AR	0.01	mg/kg		<0.01	<0.01
Mephosfolan	T210	AR	0.01	mg/kg		<0.01	<0.01
Mepronil	T210	AR	0.01	mg/kg		<0.01	<0.01
Metalaxyl	T210	AR	0.01	mg/kg		<0.01	<0.01
Metazachlor	T210	AR	0.01	mg/kg		<0.01	<0.01
Methacrifos	T210	AR	0.01	mg/kg		<0.01	<0.01
Methidathion	T210	AR	0.01	mg/kg		<0.01	<0.01
Methoxychlor	T210	AR	0.01	mg/kg		<0.01	<0.01
Methyl Paraoxon	T210	AR	0.01	mg/kg		<0.01	<0.01
Metolachlor	T210	AR	0.01	mg/kg		<0.01	<0.01
Metolcarb	T210	AR	0.01	mg/kg		(138) <0.01	(138) <0.01
Metrafenone	T210	AR	0.01	mg/kg		<0.01	<0.01
Metribuzin	T210	AR	0.01	mg/kg		<0.01	<0.01
Mevinphos	T210	AR	0.01	mg/kg		<0.01	<0.01
Mirex	T210	AR	0.01	mg/kg		<0.01	<0.01
Molinate	T210	AR	0.01	mg/kg		<0.01	<0.01

SAL Reference: 377186
Project Site: Sompting, West Sussex
Customer Reference: 20612

Soil Analysed as Solid
MRPS by GC (small)

					SAL Reference	377186 014	377186 015
					Customer Sample Reference	WS109 - ES1 @ 0.20m	WS111 - ES2 @ 0.50-0.70m
					Date Sampled	10-FEB-2014	10-FEB-2014
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Myclobutanil	T210	AR	0.01	mg/kg		<0.01	<0.01
Napropamide	T210	AR	0.01	mg/kg		<0.01	<0.01
Nitrofen	T210	AR	0.01	mg/kg		<0.01	<0.01
Nitrothal isopropyl	T210	AR	0.01	mg/kg		<0.01	<0.01
Nuarimol	T210	AR	0.01	mg/kg		<0.01	<0.01
Octylisothiazolon	T210	AR	0.01	mg/kg		<0.01	<0.01
Ofurace	T210	AR	0.01	mg/kg		<0.01	<0.01
Oxadiazon	T210	AR	0.01	mg/kg		<0.01	<0.01
Oxadixyl	T210	AR	0.01	mg/kg		<0.01	<0.01
Oxyfluorfen	T210	AR	0.01	mg/kg		<0.01	<0.01
Paclobutrazol	T210	AR	0.01	mg/kg		<0.01	<0.01
Paraoxon	T210	AR	0.01	mg/kg		(138) <0.01	(138) <0.01
Parathion	T210	AR	0.01	mg/kg		<0.01	<0.01
Parathion methyl	T210	AR	0.01	mg/kg		<0.01	<0.01
Penconazole	T210	AR	0.01	mg/kg		<0.01	<0.01
Pendimethalin	T210	AR	0.01	mg/kg		<0.01	<0.01
Pentachloroaniline	T210	AR	0.01	mg/kg		<0.01	<0.01
Pentanochlor	T210	AR	0.01	mg/kg		(138) <0.01	(138) <0.01
Permethrin	T210	AR	0.01	mg/kg		<0.01	<0.01
Pethoxamid	T210	AR	0.01	mg/kg		<0.01	<0.01
Phenthoate	T210	AR	0.01	mg/kg		<0.01	<0.01
Phorate	T210	AR	0.01	mg/kg		<0.01	<0.01
Phosalone	T210	AR	0.01	mg/kg		<0.01	<0.01
Phosphamidon	T210	AR	0.01	mg/kg		<0.01	<0.01
Picoxystrobin	T210	AR	0.01	mg/kg		<0.01	<0.01
Piperonyl Butoxide	T210	AR	0.01	mg/kg		<0.01	<0.01
Pirimicarb	T210	AR	0.01	mg/kg		<0.01	<0.01
Pirimiphos Ethyl	T210	AR	0.01	mg/kg		<0.01	<0.01
Pirimiphos methyl	T210	AR	0.01	mg/kg		<0.01	<0.01
Pretilachlor	T210	AR	0.01	mg/kg		<0.01	<0.01
Procymidone	T210	AR	0.01	mg/kg		<0.01	<0.01
Profenofos	T210	AR	0.01	mg/kg		<0.01	<0.01
Prometon	T210	AR	0.01	mg/kg		<0.01	<0.01
Prometryn	T210	AR	0.01	mg/kg		<0.01	<0.01
Propachlor	T210	AR	0.01	mg/kg		<0.01	<0.01
Propanil	T210	AR	0.01	mg/kg		<0.01	<0.01
Propaphos	T210	AR	0.01	mg/kg		<0.01	<0.01
Propazine	T210	AR	0.01	mg/kg		<0.01	<0.01
Propetamphos	T210	AR	0.01	mg/kg		(138) <0.01	(138) <0.01
Propham	T210	AR	0.01	mg/kg		<0.01	<0.01
Propiconazole	T210	AR	0.01	mg/kg		<0.01	<0.01
Propyzamide	T210	AR	0.01	mg/kg		<0.01	<0.01
Prosulfocarb	T210	AR	0.01	mg/kg		<0.01	<0.01
Prothiofos	T210	AR	0.01	mg/kg		<0.01	<0.01
Pyraclostrobin	T210	AR	0.01	mg/kg		<0.01	<0.01
Pyraflufen ethyl	T210	AR	0.01	mg/kg		<0.01	<0.01
Pyrazophos	T210	AR	0.01	mg/kg		<0.01	<0.01
Pyridaben	T210	AR	0.01	mg/kg		<0.01	<0.01
Pyridaphenthion	T210	AR	0.01	mg/kg		<0.01	<0.01
Pyrimethanil	T210	AR	0.01	mg/kg		<0.01	<0.01
Pyrimidifen	T210	AR	0.01	mg/kg		<0.01	<0.01
Pyriproxyfen	T210	AR	0.01	mg/kg		<0.01	<0.01
Quinalphos	T210	AR	0.01	mg/kg		<0.01	<0.01
Quinoxyfen	T210	AR	0.01	mg/kg		<0.01	<0.01
Quintozene	T210	AR	0.01	mg/kg		<0.01	<0.01
Quizalofop-ethyl	T210	AR	0.01	mg/kg		<0.01	<0.01
Secbumeton	T210	AR	0.01	mg/kg		<0.01	<0.01
Silafluofen	T210	AR	0.01	mg/kg		<0.01	<0.01
Simazine	T210	AR	0.01	mg/kg		<0.01	<0.01

SAL Reference: 377186
Project Site: Sompting, West Sussex
Customer Reference: 20612

Soil Analysed as Solid
MRPS by GC (small)

SAL Reference	**377186 014**	**377186 015**
Customer Sample Reference	**WS109 - ES1 @ 0.20m**	**WS111 - ES2 @ 0.50-0.70m**
Date Sampled	**10-FEB-2014**	**10-FEB-2014**

Determinand	Method	Test Sample	LOD	Units		
Sulfallate	T210	AR	0.01	mg/kg	<0.01	<0.01
Sulprofos	T210	AR	0.01	mg/kg	<0.01	<0.01
Tebuconazole	T210	AR	0.01	mg/kg	<0.01	<0.01
Tebufenpyrad	T210	AR	0.01	mg/kg	<0.01	<0.01
Tecnazene	T210	AR	0.01	mg/kg	<0.01	<0.01
Tefluthrin	T210	AR	0.01	mg/kg	<0.01	<0.01
Terbacil	T210	AR	0.01	mg/kg	<0.01	<0.01
Terbufos	T210	AR	0.01	mg/kg	<0.01	<0.01
Terbumeton	T210	AR	0.01	mg/kg	<0.01	<0.01
Terbuthylazine	T210	AR	0.01	mg/kg	<0.01	<0.01
Terbutryn	T210	AR	0.01	mg/kg	<0.01	<0.01
Tetrachlorvinphos	T210	AR	0.01	mg/kg	(138) <0.01	(138) <0.01
Tetraconazole	T210	AR	0.01	mg/kg	<0.01	<0.01
Tetradifon	T210	AR	0.01	mg/kg	<0.01	<0.01
sulfotep	T210	AR	0.01	mg/kg	<0.01	<0.01
Tetramethrin	T210	AR	0.01	mg/kg	<0.01	<0.01
Tetrasul	T210	AR	0.01	mg/kg	<0.01	<0.01
Thiamethoxam	T210	AR	0.01	mg/kg	<0.01	<0.01
Tolclofos methyl	T210	AR	0.01	mg/kg	<0.01	<0.01
Triadimefon	T210	AR	0.01	mg/kg	<0.01	<0.01
Sum of Triadimefon and Triadimenol	T210	AR	0.01	mg/kg	<0.01	<0.01
Triadimenol	T210	AR	0.01	mg/kg	<0.01	<0.01
Triallate	T210	AR	0.01	mg/kg	<0.01	<0.01
Triazamate	T210	AR	0.01	mg/kg	<0.01	<0.01
Triazophos	T210	AR	0.01	mg/kg	<0.01	<0.01
Trietazine	T210	AR	0.01	mg/kg	<0.01	<0.01
Trifloxystrobin	T210	AR	0.01	mg/kg	<0.01	<0.01
Triflumizole	T210	AR	0.01	mg/kg	<0.01	<0.01
Trifluralin	T210	AR	0.01	mg/kg	<0.01	<0.01
Vinclozolin	T210	AR	0.01	mg/kg	<0.01	<0.01
Vinclozolin metabolite 3,5-Dichloroaniline	T210	AR	0.01	mg/kg	<0.01	<0.01

SAL Reference: 377186
Project Site: Sompting, West Sussex
Customer Reference: 20612

Soil Analysed as Solid
MRPS by LC (small)

SAL Reference	**377186 014**	**377186 015**
Customer Sample Reference	**WS109 - ES1 @ 0.20m**	**WS111 - ES2 @ 0.50-0.70m**
Date Sampled	**10-FEB-2014**	**10-FEB-2014**

Determinand	Method	Test Sample	LOD	Units		
2-(1-Naphthyl)acetamide	T310	AR	0.01	mg/kg	<0.01	<0.01
3-hydroxycarbofuran	T310	AR	0.01	mg/kg	<0.01	<0.01
6-Benzyladenine	T310	AR	0.01	mg/kg	<0.01	<0.01
Acephate	T310	AR	0.01	mg/kg	<0.01	<0.01
Acetamiprid	T310	AR	0.01	mg/kg	<0.01	<0.01
Acibenzolar-S-methyl	T310	AR	0.01	mg/kg	<0.01	<0.01
Aldicarb	T310	AR	0.01	mg/kg	<0.01	<0.01
Aldicarb sulphone	T310	AR	0.01	mg/kg	<0.01	<0.01
Aldicarb sulphoxide	T310	AR	0.01	mg/kg	<0.01	<0.01
Aminocarb	T310	AR	0.01	mg/kg	<0.01	<0.01
Azinphos ethyl	T310	AR	0.01	mg/kg	<0.01	<0.01
Azinphos methyl	T310	AR	0.01	mg/kg	<0.01	<0.01
Bendiocarb	T310	AR	0.01	mg/kg	<0.01	<0.01
Benfuracarb	T310	AR	0.01	mg/kg	(138) <0.01	(138) <0.01
Butralin	T310	AR	0.01	mg/kg	<0.01	<0.01
Carbendazim	T310	AR	0.01	mg/kg	<0.01	<0.01
Carbetamide	T310	AR	0.01	mg/kg	<0.01	<0.01
Carbosulfan	T310	AR	0.01	mg/kg	<0.01	<0.01
Carpropamid	T310	AR	0.01	mg/kg	<0.01	<0.01
Chinomethionat	T310	AR	0.01	mg/kg	<0.01	<0.01
Chlorbromuron	T310	AR	0.01	mg/kg	<0.01	<0.01
Chlorfluazuron	T310	AR	0.01	mg/kg	<0.01	<0.01
Chloridazon	T310	AR	0.01	mg/kg	<0.01	<0.01
Chlorotoluron	T310	AR	0.01	mg/kg	<0.01	<0.01
Clofentezine	T310	AR	0.01	mg/kg	(138) <0.01	(138) <0.01
Clothianidin	T310	AR	0.01	mg/kg	<0.01	<0.01
Cyanazine	T310	AR	0.01	mg/kg	<0.01	<0.01
Cyazofamid	T310	AR	0.01	mg/kg	<0.01	<0.01
Cycluron	T310	AR	0.01	mg/kg	<0.01	<0.01
Cymoxanil	T310	AR	0.01	mg/kg	<0.01	<0.01
Cythioate	T310	AR	0.01	mg/kg	<0.01	<0.01
Demeton	T310	AR	0.01	mg/kg	<0.01	<0.01
Demeton-s-methyl	T310	AR	0.01	mg/kg	(138) <0.01	(138) <0.01
Demeton-s-methyl sulphone	T310	AR	0.01	mg/kg	<0.01	<0.01
Dichlofluanid	T310	AR	0.01	mg/kg	<0.01	<0.01
Dicrotophos	T310	AR	0.01	mg/kg	<0.01	<0.01
Diethofencarb	T310	AR	0.01	mg/kg	<0.01	<0.01
Diflubenzuron	T310	AR	0.01	mg/kg	<0.01	<0.01
Dimefuron	T310	AR	0.01	mg/kg	<0.01	<0.01
Dimethoate	T310	AR	0.01	mg/kg	<0.01	<0.01
Dimethoate (Sum of Omethoate and Dimethoate expressed as Dimethoate)	T310	AR	0.01	mg/kg	<0.01	<0.01
Diniconazole	T310	AR	0.01	mg/kg	<0.01	<0.01
Dioxacarb	T310	AR	0.01	mg/kg	<0.01	<0.01
Disulfoton sulfoxide	T310	AR	0.01	mg/kg	<0.01	<0.01
Disulfoton sulphone	T310	AR	0.01	mg/kg	<0.01	<0.01
Diuron	T310	AR	0.01	mg/kg	<0.01	<0.01
DMSA	T310	AR	0.01	mg/kg	<0.01	<0.01
DMST	T310	AR	0.01	mg/kg	<0.01	<0.01
Dodemorph	T310	AR	0.01	mg/kg	<0.01	<0.01
Dodine	T310	AR	0.01	mg/kg	<0.01	<0.01
Emamectin	T310	AR	0.01	mg/kg	<0.01	<0.01
Ethidimuron	T310	AR	0.01	mg/kg	<0.01	<0.01
Ethiofencarb	T310	AR	0.01	mg/kg	<0.01	<0.01
Ethiofencarb sulfone	T310	AR	0.01	mg/kg	(138) <0.01	(138) <0.01
Ethiofencarb sulfoxide	T310	AR	0.01	mg/kg	<0.01	<0.01
Ethiprole	T310	AR	0.01	mg/kg	<0.01	<0.01
Ethirimol	T310	AR	0.01	mg/kg	<0.01	<0.01
Fenamiphos sulfone	T310	AR	0.01	mg/kg	<0.01	<0.01

SAL Reference: 377186
Project Site: Sompting, West Sussex
Customer Reference: 20612

Soil Analysed as Solid
MRPS by LC (small)

SAL Reference	**377186 014**	**377186 015**
Customer Sample Reference	**WS109 - ES1 @ 0.20m**	**WS111 - ES2 @ 0.50-0.70m**
Date Sampled	**10-FEB-2014**	**10-FEB-2014**

Determinand	Method	Test Sample	LOD	Units		
Fenamiphos sulfoxide	T310	AR	0.01	mg/kg	<0.01	<0.01
Fenazaquin	T310	AR	0.01	mg/kg	<0.01	<0.01
Fenchlorphos oxon	T310	AR	0.01	mg/kg	<0.01	<0.01
Fenhexamid	T310	AR	0.01	mg/kg	<0.01	<0.01
Fenoxycarb	T310	AR	0.01	mg/kg	<0.01	<0.01
Fenpropidin	T310	AR	0.01	mg/kg	<0.01	<0.01
Fenpropimorph	T310	AR	0.01	mg/kg	<0.01	<0.01
Fenpyroximate	T310	AR	0.01	mg/kg	<0.01	<0.01
Fenthion Sulphone	T310	AR	0.01	mg/kg	<0.01	<0.01
Fenthion Sulphoxide	T310	AR	0.01	mg/kg	<0.01	<0.01
Fenuron	T310	AR	0.01	mg/kg	<0.01	<0.01
Flonicamid	T310	AR	0.01	mg/kg	<0.01	<0.01
Fluazinam	T310	AR	0.01	mg/kg	<0.01	<0.01
Flufenoxuron	T310	AR	0.01	mg/kg	<0.01	<0.01
Fluometuron	T310	AR	0.01	mg/kg	<0.01	<0.01
Fluopicolide	T310	AR	0.01	mg/kg	<0.01	<0.01
Fluorochloridone	T310	AR	0.01	mg/kg	<0.01	<0.01
Fluoxastrobin	T310	AR	0.01	mg/kg	<0.01	<0.01
Flutriafol	T310	AR	0.01	mg/kg	<0.01	<0.01
Fuberidazole	T310	AR	0.01	mg/kg	<0.01	<0.01
Furathiocarb	T310	AR	0.01	mg/kg	<0.01	<0.01
Hexaflumuron	T310	AR	0.01	mg/kg	<0.01	<0.01
Hexythiazox	T310	AR	0.01	mg/kg	<0.01	<0.01
Imazalil	T310	AR	0.01	mg/kg	<0.01	<0.01
Imibenconazole	T310	AR	0.01	mg/kg	(138) <0.01	(138) <0.01
Imidacloprid	T310	AR	0.01	mg/kg	<0.01	<0.01
Indoxacarb	T310	AR	0.01	mg/kg	<0.01	<0.01
Iprovalicarb	T310	AR	0.01	mg/kg	<0.01	<0.01
Isoprocarb	T310	AR	0.01	mg/kg	<0.01	<0.01
Isoproturon	T310	AR	0.01	mg/kg	<0.01	<0.01
Isoxaben	T310	AR	0.01	mg/kg	<0.01	<0.01
Karbutylate	T310	AR	0.01	mg/kg	<0.01	<0.01
Linuron	T310	AR	0.01	mg/kg	<0.01	<0.01
Lufenuron	T310	AR	0.01	mg/kg	<0.01	<0.01
Malaoxon	T310	AR	0.01	mg/kg	<0.01	<0.01
Mandipropamid	T310	AR	0.01	mg/kg	<0.01	<0.01
Mefenacet	T310	AR	0.01	mg/kg	<0.01	<0.01
Metamitron	T310	AR	0.01	mg/kg	<0.01	<0.01
Metconazole	T310	AR	0.01	mg/kg	<0.01	<0.01
Methabenzthiazuron	T310	AR	0.01	mg/kg	<0.01	<0.01
Methamidophos	T310	AR	0.01	mg/kg	<0.01	<0.01
Methiocarb	T310	AR	0.01	mg/kg	<0.01	<0.01
Methiocarb sulfone	T310	AR	0.01	mg/kg	<0.01	<0.01
Methiocarb Sulfoxide	T310	AR	0.01	mg/kg	<0.01	<0.01
Methomyl	T310	AR	0.01	mg/kg	<0.01	<0.01
Methoxyfenozide	T310	AR	0.01	mg/kg	<0.01	<0.01
Metobromuron	T310	AR	0.01	mg/kg	<0.01	<0.01
Metoxuron	T310	AR	0.01	mg/kg	<0.01	<0.01
Monocrotophos	T310	AR	0.01	mg/kg	<0.01	<0.01
Monolinuron	T310	AR	0.01	mg/kg	<0.01	<0.01
Monuron	T310	AR	0.01	mg/kg	<0.01	<0.01
Neburon	T310	AR	0.01	mg/kg	<0.01	<0.01
Nitenpyram	T310	AR	0.01	mg/kg	<0.01	<0.01
Novaluron	T310	AR	0.01	mg/kg	<0.01	<0.01
Omethoate	T310	AR	0.01	mg/kg	<0.01	<0.01
Oxadiargyl	T310	AR	0.01	mg/kg	<0.01	<0.01
Oxamyl	T310	AR	0.01	mg/kg	<0.01	<0.01
Oxycarboxin	T310	AR	0.01	mg/kg	<0.01	<0.01

SAL Reference: 377186
Project Site: Sompting, West Sussex
Customer Reference: 20612

Soil Analysed as Solid
MRPS by LC (small)

					SAL Reference	377186 014	377186 015
					Customer Sample Reference	WS109 - ES1 @ 0.20m	WS111 - ES2 @ 0.50-0.70m
					Date Sampled	10-FEB-2014	10-FEB-2014
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Oxydemeton-Methyl	T310	AR	0.01	mg/kg		<0.01	<0.01
Pencycuron	T310	AR	0.01	mg/kg		<0.01	<0.01
Phorate sulfone	T310	AR	0.01	mg/kg		<0.01	<0.01
Phorate sulfoxide	T310	AR	0.01	mg/kg		<0.01	<0.01
Phosmet	T310	AR	0.01	mg/kg		<0.01	<0.01
Phosphamidon	T310	AR	0.01	mg/kg		<0.01	<0.01
Phoxim	T310	AR	0.01	mg/kg		<0.01	<0.01
Prochloraz	T310	AR	0.01	mg/kg		<0.01	<0.01
Promecarb	T310	AR	0.01	mg/kg		<0.01	<0.01
Propamocarb	T310	AR	0.01	mg/kg		<0.01	<0.01
Propaquizafop	T310	AR	0.01	mg/kg		<0.01	<0.01
Propargite	T310	AR	0.01	mg/kg		<0.01	<0.01
Propoxur	T310	AR	0.01	mg/kg		<0.01	<0.01
Pymetrozine	T310	AR	0.01	mg/kg		<0.01	<0.01
Pyrifenox	T310	AR	0.01	mg/kg		<0.01	<0.01
Resmethrin	T310	AR	0.01	mg/kg		(138) <0.01	(138) <0.01
Rotenone	T310	AR	0.01	mg/kg		<0.01	<0.01
Spinosad	T310	AR	0.01	mg/kg		(138) <0.01	(138) <0.01
Spirodiclofen	T310	AR	0.01	mg/kg		<0.01	<0.01
Spiromesifen	T310	AR	0.01	mg/kg		<0.01	<0.01
Spiroxamine	T310	AR	0.01	mg/kg		<0.01	<0.01
Tebufenozide	T310	AR	0.01	mg/kg		<0.01	<0.01
Teflubenzuron	T310	AR	0.01	mg/kg		<0.01	<0.01
Temephos	T310	AR	0.01	mg/kg		<0.01	<0.01
Terbufos sulfone	T310	AR	0.01	mg/kg		<0.01	<0.01
Terbufos sulfoxide	T310	AR	0.01	mg/kg		<0.01	<0.01
Thiabendazole	T310	AR	0.01	mg/kg		<0.01	<0.01
Thiacloprid	T310	AR	0.01	mg/kg		<0.01	<0.01
Thiazafluron	T310	AR	0.01	mg/kg		<0.01	<0.01
Thiodicarb	T310	AR	0.01	mg/kg		<0.01	<0.01
Thiofanox	T310	AR	0.01	mg/kg		<0.01	<0.01
Thiophanate Methyl	T310	AR	0.01	mg/kg		(138) <0.01	(138) <0.01
Tolylfluanid	T310	AR	0.01	mg/kg		<0.01	<0.01
Trichlorfon	T310	AR	0.01	mg/kg		<0.01	<0.01
Tridemorph	T310	AR	0.01	mg/kg		<0.01	<0.01
Trifloxysulfuron	T310	AR	0.01	mg/kg		<0.01	<0.01
Triflumuron	T310	AR	0.01	mg/kg		<0.01	<0.01
Triflusulfuron-methyl	T310	AR	0.01	mg/kg		<0.01	<0.01
Triticonazole	T310	AR	0.01	mg/kg		<0.01	<0.01
Vamidothion	T310	AR	0.01	mg/kg		<0.01	<0.01
Vernolate	T310	AR	0.01	mg/kg		<0.01	<0.01
Zoxamide	T310	AR	0.01	mg/kg		<0.01	<0.01

Index to symbols used in 377186-1

Value	Description
AR	As Received
A40	Assisted dried < 40C
138	Data reported is semi quantitative as recovery is outside the 60 to 140% range
W	Analysis was performed at another SAL laboratory
S	Analysis was subcontracted
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Where an asbestos result of none detected is reported, this is obtained from analysis of a representative sub sample.

Method Index

Value	Description
T4	Colorimetry
T6	ICP/OES
T27	PLM
T245	ICP/OES(Aqua Regia Extraction)
T242	2:1 Extraction/ICP/OES (TRL 447 T1)
T102	ICP/OES (HCl extract)
T82	ICP/OES (Sim)
T7	Probe
T210	GC/MS (DRS)
T310	LC/MS/MS
T16	GC/MS
T257	ICP/OES (SIM) (Aqua Regia Extraction)
T54	GC/MS (Headspace)
T219	GC/FID (SE)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
1,2,3,6-Tetrahydrophthalimide expressed as Captan	T210	AR	0.01	mg/kg	WN	014-015
2,4,6-Trichlorophenol	T210	AR	0.01	mg/kg	WN	014-015
2-Phenylphenol	T210	AR	0.01	mg/kg	WN	014-015
4,4-Dichlorobenzophenone	T210	AR	0.01	mg/kg	WN	014-015
Acetochlor	T210	AR	0.01	mg/kg	WN	014-015
Aclonifen	T210	AR	0.01	mg/kg	WN	014-015
Acrinathrin	T210	AR	0.01	mg/kg	WN	014-015
Alachlor	T210	AR	0.01	mg/kg	WN	014-015
Aldrin	T210	AR	0.01	mg/kg	WN	014-015
Ametryn	T210	AR	0.01	mg/kg	WN	014-015
Atraton	T210	AR	0.01	mg/kg	WN	014-015
Atrazine	T210	AR	0.01	mg/kg	WN	014-015
Atrazine desethyl	T210	AR	0.01	mg/kg	WN	014-015
Azaconazole	T210	AR	0.01	mg/kg	WN	014-015
Azoxystrobin	T210	AR	0.01	mg/kg	WN	014-015
Benalaxyl	T210	AR	0.01	mg/kg	WN	014-015
Bifenox	T210	AR	0.01	mg/kg	WN	014-015
Bifenthrin	T210	AR	0.01	mg/kg	WN	014-015
Binapacryl	T210	AR	0.01	mg/kg	WN	014-015
Biphenyl	T210	AR	0.01	mg/kg	WN	014-015
Bitertanol	T210	AR	0.01	mg/kg	WN	014-015
Boscalid	T210	AR	0.01	mg/kg	WN	014-015
Bromacil	T210	AR	0.01	mg/kg	WN	014-015
Bromophos	T210	AR	0.01	mg/kg	WN	014-015
Bromophos-Ethyl	T210	AR	0.01	mg/kg	WN	014-015
Bromopropylate	T210	AR	0.01	mg/kg	WN	014-015
Bromuconazole	T210	AR	0.01	mg/kg	WN	014-015
Bupirimate	T210	AR	0.01	mg/kg	WN	014-015
Buprofezine	T210	AR	0.01	mg/kg	WN	014-015
Butachlor	T210	AR	0.01	mg/kg	WN	014-015
Cadusafos	T210	AR	0.01	mg/kg	WN	014-015
Captafol	T210	AR	0.02	mg/kg	WN	014-015
Carbaryl	T210	AR	0.01	mg/kg	WN	014-015
Carbofuran	T210	AR	0.01	mg/kg	WN	014-015
Carbophenothion	T210	AR	0.01	mg/kg	WN	014-015
Carboxine	T210	AR	0.01	mg/kg	WN	014-015
Carfentrazone Ethyl	T210	AR	0.01	mg/kg	WN	014-015
Chlorbenzilate	T210	AR	0.01	mg/kg	WN	014-015
Chlordane (oxy)	T210	AR	0.01	mg/kg	WN	014-015
Chlordane	T210	AR	0.01	mg/kg	WN	014-015
Chlordimeform	T210	AR	0.01	mg/kg	WN	014-015
Chlorethoxyfos	T210	AR	0.01	mg/kg	WN	014-015
Chlorfenapyr	T210	AR	0.01	mg/kg	WN	014-015

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Chlorfenson	T210	AR	0.01	mg/kg	WN	014-015
Chlorfenvinfos	T210	AR	0.01	mg/kg	WN	014-015
Chlorfenvinphos	T210	AR	0.01	mg/kg	WN	014-015
Chlormephos	T210	AR	0.01	mg/kg	WN	014-015
Chloropropylate	T210	AR	0.01	mg/kg	WN	014-015
Chlorothalonil	T210	AR	0.01	mg/kg	WN	014-015
Chlorpropham	T210	AR	0.01	mg/kg	WN	014-015
Chlorpyrifos	T210	AR	0.01	mg/kg	WN	014-015
Chlorpyrifos methyl	T210	AR	0.01	mg/kg	WN	014-015
Chlorthal Dimethyl	T210	AR	0.01	mg/kg	WN	014-015
Chlorthion	T210	AR	0.01	mg/kg	WN	014-015
Chlorthiophos	T210	AR	0.01	mg/kg	WN	014-015
Chlozolinate	T210	AR	0.01	mg/kg	WN	014-015
Clodinafop propargy	T210	AR	0.01	mg/kg	WN	014-015
Clomazone	T210	AR	0.01	mg/kg	WN	014-015
Cloquintocet mexyl	T210	AR	0.01	mg/kg	WN	014-015
Coumaphos	T210	AR	0.01	mg/kg	WN	014-015
Cyflufenamid	T210	AR	0.01	mg/kg	WN	014-015
Cyfluthrin	T210	AR	0.01	mg/kg	WN	014-015
Cypermethrin	T210	AR	0.01	mg/kg	WN	014-015
Cyproconazole	T210	AR	0.01	mg/kg	WN	014-015
Cyprodinil	T210	AR	0.01	mg/kg	WN	014-015
DDT (sum of pp'DDT, op'DDT, pp'TDE, p'TDE and pp'DDE)	T210	AR	0.01	mg/kg	WN	014-015
Deltamethrin	T210	AR	0.01	mg/kg	WN	014-015
Desmetryn	T210	AR	0.01	mg/kg	WN	014-015
Diafenthiuron	T210	AR	0.01	mg/kg	WN	014-015
Dialifos	T210	AR	0.01	mg/kg	WN	014-015
Diazinon	T210	AR	0.01	mg/kg	WN	014-015
Dichlorvos	T210	AR	0.01	mg/kg	WN	014-015
Diclobutrazol	T210	AR	0.01	mg/kg	WN	014-015
Dicloran	T210	AR	0.01	mg/kg	WN	014-015
Dicofol	T210	AR	0.01	mg/kg	WN	014-015
Dieldrin	T210	AR	0.01	mg/kg	WN	014-015
Difenoconazole	T210	AR	0.01	mg/kg	WN	014-015
Diflufenican	T210	AR	0.01	mg/kg	WN	014-015
Dimethenamid	T210	AR	0.01	mg/kg	WN	014-015
Dimethomorph	T210	AR	0.01	mg/kg	WN	014-015
Dimoxystrobin	T210	AR	0.01	mg/kg	WN	014-015
Diphenamid	T210	AR	0.01	mg/kg	WN	014-015
Diphenylamine	T210	AR	0.01	mg/kg	WN	014-015
Disulfoton	T210	AR	0.01	mg/kg	WN	014-015
Ditalimfos	T210	AR	0.01	mg/kg	WN	014-015
Edifenphos	T210	AR	0.01	mg/kg	WN	014-015
Endosulphan (sum of alpha, beta and sulphate)	T210	AR	0.01	mg/kg	WN	014-015
Endosulphan alpha	T210	AR	0.01	mg/kg	WN	014-015
Endosulphan beta	T210	AR	0.01	mg/kg	WN	014-015
Endosulphan sulphate	T210	AR	0.01	mg/kg	WN	014-015
Endrin	T210	AR	0.01	mg/kg	WN	014-015
Epn	T210	AR	0.01	mg/kg	WN	014-015
Epoxiconazole	T210	AR	0.01	mg/kg	WN	014-015
EPTC	T210	AR	0.01	mg/kg	WN	014-015
Etaconazole	T210	AR	0.01	mg/kg	WN	014-015
Ethion	T210	AR	0.01	mg/kg	WN	014-015
Ethofumesate	T210	AR	0.01	mg/kg	WN	014-015
Ethoprophos	T210	AR	0.01	mg/kg	WN	014-015
Ethoxyquin	T210	AR	0.01	mg/kg	WN	014-015
Etofenprox	T210	AR	0.01	mg/kg	WN	014-015
Etoxazole	T210	AR	0.01	mg/kg	WN	014-015
Etridiazole	T210	AR	0.01	mg/kg	WN	014-015
Etrimfos	T210	AR	0.01	mg/kg	WN	014-015
Famoxadone	T210	AR	0.01	mg/kg	WN	014-015
Famphur	T210	AR	0.01	mg/kg	WN	014-015
Fenamidone	T210	AR	0.01	mg/kg	WN	014-015
Fenamiphos	T210	AR	0.01	mg/kg	WN	014-015
Fenarimol	T210	AR	0.01	mg/kg	WN	014-015
Fenbuconazole	T210	AR	0.01	mg/kg	WN	014-015
Fenchlorphos	T210	AR	0.01	mg/kg	WN	014-015
Fenitrothion	T210	AR	0.01	mg/kg	WN	014-015
Fenpiclonil	T210	AR	0.01	mg/kg	WN	014-015
Fenpropathrin	T210	AR	0.01	mg/kg	WN	014-015

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Fenson	T210	AR	0.01	mg/kg	WN	014-015
Fensulfothion	T210	AR	0.01	mg/kg	WN	014-015
Fenthion	T210	AR	0.01	mg/kg	WN	014-015
Fenvalerate	T210	AR	0.01	mg/kg	WN	014-015
Fipronil	T210	AR	0.01	mg/kg	WN	014-015
Flamprop isopropyl	T210	AR	0.01	mg/kg	WN	014-015
Fluazifop-P-Butyl	T210	AR	0.01	mg/kg	WN	014-015
Flucythrinate	T210	AR	0.01	mg/kg	WN	014-015
Fludioxonil	T210	AR	0.01	mg/kg	WN	014-015
Flufenacet	T210	AR	0.01	mg/kg	WN	014-015
Flumetralin	T210	AR	0.01	mg/kg	WN	014-015
Flumioxazin	T210	AR	0.01	mg/kg	WN	014-015
Fluorochloridone	T210	AR	0.01	mg/kg	WN	014-015
Fluquinconazole	T210	AR	0.01	mg/kg	WN	014-015
Fluroxypyr-1-methylheptyl ester	T210	AR	0.01	mg/kg	WN	014-015
Flurtamone	T210	AR	0.01	mg/kg	WN	014-015
Flusilazole	T210	AR	0.01	mg/kg	WN	014-015
Flutolanil	T210	AR	0.01	mg/kg	WN	014-015
Fluvalinate	T210	AR	0.01	mg/kg	WN	014-015
Fonophos	T210	AR	0.01	mg/kg	WN	014-015
Formothion	T210	AR	0.01	mg/kg	WN	014-015
Furalaxyl	T210	AR	0.01	mg/kg	WN	014-015
Furathiocarb	T210	AR	0.01	mg/kg	WN	014-015
Furmecyclox	T210	AR	0.01	mg/kg	WN	014-015
Haloxyfop etotyl	T210	AR	0.01	mg/kg	WN	014-015
Haloxyfop Methyl	T210	AR	0.01	mg/kg	WN	014-015
Heptachlor	T210	AR	0.01	mg/kg	WN	014-015
Heptachlor epoxide	T210	AR	0.01	mg/kg	WN	014-015
Heptachlor exo Epoxide	T210	AR	0.01	mg/kg	WN	014-015
Heptenophos	T210	AR	0.01	mg/kg	WN	014-015
Hexachlorobenzene	T210	AR	0.01	mg/kg	WN	014-015
Hexachlorocyclohexane	T210	AR	0.01	mg/kg	WN	014-015
Hexaconazole	T210	AR	0.01	mg/kg	WN	014-015
Hexazinone	T210	AR	0.01	mg/kg	WN	014-015
Iodofenphos	T210	AR	0.01	mg/kg	WN	014-015
Iprodione	T210	AR	0.01	mg/kg	WN	014-015
Isazofos	T210	AR	0.01	mg/kg	WN	014-015
Isocarbophos	T210	AR	0.01	mg/kg	WN	014-015
Isofenphos	T210	AR	0.01	mg/kg	WN	014-015
Isofenphos Methyl	T210	AR	0.01	mg/kg	WN	014-015
Isomethiozin	T210	AR	0.01	mg/kg	WN	014-015
Kresoxim Methyl	T210	AR	0.01	mg/kg	WN	014-015
Lambda Cyhalothrin	T210	AR	0.01	mg/kg	WN	014-015
Lenacil	T210	AR	0.01	mg/kg	WN	014-015
Lindane	T210	AR	0.01	mg/kg	WN	014-015
Malathion	T210	AR	0.01	mg/kg	WN	014-015
Mecarbam	T210	AR	0.01	mg/kg	WN	014-015
Mefenoxam	T210	AR	0.01	mg/kg	WN	014-015
Mepanipyrim	T210	AR	0.01	mg/kg	WN	014-015
Mephosfolan	T210	AR	0.01	mg/kg	WN	014-015
Mepronil	T210	AR	0.01	mg/kg	WN	014-015
Metalaxyl	T210	AR	0.01	mg/kg	WN	014-015
Metazachlor	T210	AR	0.01	mg/kg	WN	014-015
Methacrifos	T210	AR	0.01	mg/kg	WN	014-015
Methidathion	T210	AR	0.01	mg/kg	WN	014-015
Methoxychlor	T210	AR	0.01	mg/kg	WN	014-015
Methyl Paraoxon	T210	AR	0.01	mg/kg	WN	014-015
Metolachlor	T210	AR	0.01	mg/kg	WN	014-015
Metolcarb	T210	AR	0.01	mg/kg	WN	014-015
Metrafenone	T210	AR	0.01	mg/kg	WN	014-015
Metribuzin	T210	AR	0.01	mg/kg	WN	014-015
Mevinphos	T210	AR	0.01	mg/kg	WN	014-015
Mirex	T210	AR	0.01	mg/kg	WN	014-015
Molinate	T210	AR	0.01	mg/kg	WN	014-015
Myclobutanil	T210	AR	0.01	mg/kg	WN	014-015
Napropamide	T210	AR	0.01	mg/kg	WN	014-015
Nitrofen	T210	AR	0.01	mg/kg	WN	014-015
Nitrothal isopropyl	T210	AR	0.01	mg/kg	WN	014-015
Nuarimol	T210	AR	0.01	mg/kg	WN	014-015
Octylisothiazolon	T210	AR	0.01	mg/kg	WN	014-015

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Ofurace	T210	AR	0.01	mg/kg	WN	014-015
Oxadiazon	T210	AR	0.01	mg/kg	WN	014-015
Oxadixyl	T210	AR	0.01	mg/kg	WN	014-015
Oxyfluorfen	T210	AR	0.01	mg/kg	WN	014-015
Paclobutrazol	T210	AR	0.01	mg/kg	WN	014-015
Paraoxon	T210	AR	0.01	mg/kg	WN	014-015
Parathion	T210	AR	0.01	mg/kg	WN	014-015
Parathion methyl	T210	AR	0.01	mg/kg	WN	014-015
Penconazole	T210	AR	0.01	mg/kg	WN	014-015
Pendimethalin	T210	AR	0.01	mg/kg	WN	014-015
Pentachloroaniline	T210	AR	0.01	mg/kg	WN	014-015
Pentanochlor	T210	AR	0.01	mg/kg	WN	014-015
Permethrin	T210	AR	0.01	mg/kg	WN	014-015
Pethoxamid	T210	AR	0.01	mg/kg	WN	014-015
Phenthoate	T210	AR	0.01	mg/kg	WN	014-015
Phorate	T210	AR	0.01	mg/kg	WN	014-015
Phosalone	T210	AR	0.01	mg/kg	WN	014-015
Phosphamidon	T210	AR	0.01	mg/kg	WN	014-015
Picoxystrobin	T210	AR	0.01	mg/kg	WN	014-015
Piperonyl Butoxide	T210	AR	0.01	mg/kg	WN	014-015
Pirimicarb	T210	AR	0.01	mg/kg	WN	014-015
Pirimiphos Ethyl	T210	AR	0.01	mg/kg	WN	014-015
Pirimiphos methyl	T210	AR	0.01	mg/kg	WN	014-015
Pretilachlor	T210	AR	0.01	mg/kg	WN	014-015
Procymidone	T210	AR	0.01	mg/kg	WN	014-015
Profenofos	T210	AR	0.01	mg/kg	WN	014-015
Prometon	T210	AR	0.01	mg/kg	WN	014-015
Prometryn	T210	AR	0.01	mg/kg	WN	014-015
Propachlor	T210	AR	0.01	mg/kg	WN	014-015
Propanil	T210	AR	0.01	mg/kg	WN	014-015
Propaphos	T210	AR	0.01	mg/kg	WN	014-015
Propazine	T210	AR	0.01	mg/kg	WN	014-015
Propetamphos	T210	AR	0.01	mg/kg	WN	014-015
Propham	T210	AR	0.01	mg/kg	WN	014-015
Propiconazole	T210	AR	0.01	mg/kg	WN	014-015
Propyzamide	T210	AR	0.01	mg/kg	WN	014-015
Prosulfocarb	T210	AR	0.01	mg/kg	WN	014-015
Prothiofos	T210	AR	0.01	mg/kg	WN	014-015
Pyraclostrobin	T210	AR	0.01	mg/kg	WN	014-015
Pyraflufen ethyl	T210	AR	0.01	mg/kg	WN	014-015
Pyrazophos	T210	AR	0.01	mg/kg	WN	014-015
Pyridaben	T210	AR	0.01	mg/kg	WN	014-015
Pyridaphenthion	T210	AR	0.01	mg/kg	WN	014-015
Pyrimethanil	T210	AR	0.01	mg/kg	WN	014-015
Pyrimidifen	T210	AR	0.01	mg/kg	WN	014-015
Pyriproxyfen	T210	AR	0.01	mg/kg	WN	014-015
Quinalphos	T210	AR	0.01	mg/kg	WN	014-015
Quinoxyfen	T210	AR	0.01	mg/kg	WN	014-015
Quintozene	T210	AR	0.01	mg/kg	WN	014-015
Quizalofop-ethyl	T210	AR	0.01	mg/kg	WN	014-015
Secbumeton	T210	AR	0.01	mg/kg	WN	014-015
Silafluofen	T210	AR	0.01	mg/kg	WN	014-015
Simazine	T210	AR	0.01	mg/kg	WN	014-015
Sulfallate	T210	AR	0.01	mg/kg	WN	014-015
Sulprofos	T210	AR	0.01	mg/kg	WN	014-015
Tebuconazole	T210	AR	0.01	mg/kg	WN	014-015
Tebufenpyrad	T210	AR	0.01	mg/kg	WN	014-015
Tecnazene	T210	AR	0.01	mg/kg	WN	014-015
Tefluthrin	T210	AR	0.01	mg/kg	WN	014-015
Terbacil	T210	AR	0.01	mg/kg	WN	014-015
Terbufos	T210	AR	0.01	mg/kg	WN	014-015
Terbumeton	T210	AR	0.01	mg/kg	WN	014-015
Terbuthylazine	T210	AR	0.01	mg/kg	WN	014-015
Terbutryn	T210	AR	0.01	mg/kg	WN	014-015
Tetrachlorvinphos	T210	AR	0.01	mg/kg	WN	014-015
Tetraconazole	T210	AR	0.01	mg/kg	WN	014-015
Tetradifon	T210	AR	0.01	mg/kg	WN	014-015
sulfotep	T210	AR	0.01	mg/kg	WN	014-015
Tetramethrin	T210	AR	0.01	mg/kg	WN	014-015
Tetrasul	T210	AR	0.01	mg/kg	WN	014-015

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Thiamethoxam	T210	AR	0.01	mg/kg	WN	014-015
Tolclofos methyl	T210	AR	0.01	mg/kg	WN	014-015
Triadimefon	T210	AR	0.01	mg/kg	WN	014-015
Sum of Triadimefon and Triadimenol	T210	AR	0.01	mg/kg	WN	014-015
Triadimenol	T210	AR	0.01	mg/kg	WN	014-015
Triallate	T210	AR	0.01	mg/kg	WN	014-015
Triazamate	T210	AR	0.01	mg/kg	WN	014-015
Triazophos	T210	AR	0.01	mg/kg	WN	014-015
Trietazine	T210	AR	0.01	mg/kg	WN	014-015
Trifloxystrobin	T210	AR	0.01	mg/kg	WN	014-015
Triflumizole	T210	AR	0.01	mg/kg	WN	014-015
Trifluralin	T210	AR	0.01	mg/kg	WN	014-015
Vinclozolin	T210	AR	0.01	mg/kg	WN	014-015
Vinclozolin metabolite 3,5-Dichloroaniline	T210	AR	0.01	mg/kg	WN	014-015
2-(1-Naphthyl)acetamide	T310	AR	0.01	mg/kg	WN	014-015
3-hydroxycarbofuran	T310	AR	0.01	mg/kg	WN	014-015
6-Benzyladenine	T310	AR	0.01	mg/kg	WN	014-015
Acephate	T310	AR	0.01	mg/kg	WN	014-015
Acetamiprid	T310	AR	0.01	mg/kg	WN	014-015
Acibenzolar-S-methyl	T310	AR	0.01	mg/kg	WN	014-015
Aldicarb	T310	AR	0.01	mg/kg	WN	014-015
Aldicarb sulphone	T310	AR	0.01	mg/kg	WN	014-015
Aldicarb sulphoxide	T310	AR	0.01	mg/kg	WN	014-015
Aminocarb	T310	AR	0.01	mg/kg	WN	014-015
Azinphos ethyl	T310	AR	0.01	mg/kg	WN	014-015
Azinphos methyl	T310	AR	0.01	mg/kg	WN	014-015
Bendiocarb	T310	AR	0.01	mg/kg	WN	014-015
Benfuracarb	T310	AR	0.01	mg/kg	WN	014-015
Butralin	T310	AR	0.01	mg/kg	WN	014-015
Carbendazim	T310	AR	0.01	mg/kg	WN	014-015
Carbetamide	T310	AR	0.01	mg/kg	WN	014-015
Carbosulfan	T310	AR	0.01	mg/kg	WN	014-015
Carpropamid	T310	AR	0.01	mg/kg	WN	014-015
Chinomethionat	T310	AR	0.01	mg/kg	WN	014-015
Chlorbromuron	T310	AR	0.01	mg/kg	WN	014-015
Chlorfluazuron	T310	AR	0.01	mg/kg	WN	014-015
Chloridazon	T310	AR	0.01	mg/kg	WN	014-015
Chlorotoluron	T310	AR	0.01	mg/kg	WN	014-015
Clofentezine	T310	AR	0.01	mg/kg	WN	014-015
Clothianidin	T310	AR	0.01	mg/kg	WN	014-015
Cyanazine	T310	AR	0.01	mg/kg	WN	014-015
Cyazofamid	T310	AR	0.01	mg/kg	WN	014-015
Cycluron	T310	AR	0.01	mg/kg	WN	014-015
Cymoxanil	T310	AR	0.01	mg/kg	WN	014-015
Cythioate	T310	AR	0.01	mg/kg	WN	014-015
Demeton	T310	AR	0.01	mg/kg	WN	014-015
Demeton-s-methyl	T310	AR	0.01	mg/kg	WN	014-015
Demeton-s-methyl sulphone	T310	AR	0.01	mg/kg	WN	014-015
Dichlofluanid	T310	AR	0.01	mg/kg	WN	014-015
Dicrotophos	T310	AR	0.01	mg/kg	WN	014-015
Diethofencarb	T310	AR	0.01	mg/kg	WN	014-015
Diflubenzuron	T310	AR	0.01	mg/kg	WN	014-015
Dimefuron	T310	AR	0.01	mg/kg	WN	014-015
Dimethoate	T310	AR	0.01	mg/kg	WN	014-015
Dimethoate (Sum of Omethoate and Dimethoate expressed as Dimethoate)	T310	AR	0.01	mg/kg	WN	014-015
Diniconazole	T310	AR	0.01	mg/kg	WN	014-015
Dioxacarb	T310	AR	0.01	mg/kg	WN	014-015
Disulfoton sulfoxide	T310	AR	0.01	mg/kg	WN	014-015
Disulfoton sulphone	T310	AR	0.01	mg/kg	WN	014-015
Diuron	T310	AR	0.01	mg/kg	WN	014-015
DMSA	T310	AR	0.01	mg/kg	WN	014-015
DMST	T310	AR	0.01	mg/kg	WN	014-015
Dodemorph	T310	AR	0.01	mg/kg	WN	014-015
Dodine	T310	AR	0.01	mg/kg	WN	014-015
Emamectin	T310	AR	0.01	mg/kg	WN	014-015
Ethidimuron	T310	AR	0.01	mg/kg	WN	014-015
Ethiofencarb	T310	AR	0.01	mg/kg	WN	014-015
Ethiofencarb sulfone	T310	AR	0.01	mg/kg	WN	014-015
Ethiofencarb sulfoxide	T310	AR	0.01	mg/kg	WN	014-015
Ethiprole	T310	AR	0.01	mg/kg	WN	014-015

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Ethirimol	T310	AR	0.01	mg/kg	WN	014-015
Fenamiphos sulfone	T310	AR	0.01	mg/kg	WN	014-015
Fenamiphos sulfoxide	T310	AR	0.01	mg/kg	WN	014-015
Fenazaquin	T310	AR	0.01	mg/kg	WN	014-015
Fenchlorphos oxon	T310	AR	0.01	mg/kg	WN	014-015
Fenhexamid	T310	AR	0.01	mg/kg	WN	014-015
Fenoxycarb	T310	AR	0.01	mg/kg	WN	014-015
Fenpropidin	T310	AR	0.01	mg/kg	WN	014-015
Fenpropimorph	T310	AR	0.01	mg/kg	WN	014-015
Fenpyroximate	T310	AR	0.01	mg/kg	WN	014-015
Fenthion Sulphone	T310	AR	0.01	mg/kg	WN	014-015
Fenthion Sulphoxide	T310	AR	0.01	mg/kg	WN	014-015
Fenuron	T310	AR	0.01	mg/kg	WN	014-015
Flonicamid	T310	AR	0.01	mg/kg	WN	014-015
Fluazinam	T310	AR	0.01	mg/kg	WN	014-015
Flufenoxuron	T310	AR	0.01	mg/kg	WN	014-015
Fluometuron	T310	AR	0.01	mg/kg	WN	014-015
Fluopicolide	T310	AR	0.01	mg/kg	WN	014-015
Fluorochloridone	T310	AR	0.01	mg/kg	WN	014-015
Fluoxastrobin	T310	AR	0.01	mg/kg	WN	014-015
Flutriafol	T310	AR	0.01	mg/kg	WN	014-015
Fuberidazole	T310	AR	0.01	mg/kg	WN	014-015
Furathiocarb	T310	AR	0.01	mg/kg	WN	014-015
Hexaflumuron	T310	AR	0.01	mg/kg	WN	014-015
Hexythiazox	T310	AR	0.01	mg/kg	WN	014-015
Imazalil	T310	AR	0.01	mg/kg	WN	014-015
Imibenconazole	T310	AR	0.01	mg/kg	WN	014-015
Imidacloprid	T310	AR	0.01	mg/kg	WN	014-015
Indoxacarb	T310	AR	0.01	mg/kg	WN	014-015
Iprovalicarb	T310	AR	0.01	mg/kg	WN	014-015
Isoprocarb	T310	AR	0.01	mg/kg	WN	014-015
Isoproturon	T310	AR	0.01	mg/kg	WN	014-015
Isoxaben	T310	AR	0.01	mg/kg	WN	014-015
Karbutylate	T310	AR	0.01	mg/kg	WN	014-015
Linuron	T310	AR	0.01	mg/kg	WN	014-015
Lufenuron	T310	AR	0.01	mg/kg	WN	014-015
Malaoxon	T310	AR	0.01	mg/kg	WN	014-015
Mandipropamid	T310	AR	0.01	mg/kg	WN	014-015
Mefenacet	T310	AR	0.01	mg/kg	WN	014-015
Metamitron	T310	AR	0.01	mg/kg	WN	014-015
Metconazole	T310	AR	0.01	mg/kg	WN	014-015
Methabenzthiazuron	T310	AR	0.01	mg/kg	WN	014-015
Methamidophos	T310	AR	0.01	mg/kg	WN	014-015
Methiocarb	T310	AR	0.01	mg/kg	WN	014-015
Methiocarb sulfone	T310	AR	0.01	mg/kg	WN	014-015
Methiocarb Sulfoxide	T310	AR	0.01	mg/kg	WN	014-015
Methomyl	T310	AR	0.01	mg/kg	WN	014-015
Methoxyfenozide	T310	AR	0.01	mg/kg	WN	014-015
Metobromuron	T310	AR	0.01	mg/kg	WN	014-015
Metoxuron	T310	AR	0.01	mg/kg	WN	014-015
Monocrotophos	T310	AR	0.01	mg/kg	WN	014-015
Monolinuron	T310	AR	0.01	mg/kg	WN	014-015
Monuron	T310	AR	0.01	mg/kg	WN	014-015
Neburon	T310	AR	0.01	mg/kg	WN	014-015
Nitenpyram	T310	AR	0.01	mg/kg	WN	014-015
Novaluron	T310	AR	0.01	mg/kg	WN	014-015
Omethoate	T310	AR	0.01	mg/kg	WN	014-015
Oxadiargyl	T310	AR	0.01	mg/kg	WN	014-015
Oxamyl	T310	AR	0.01	mg/kg	WN	014-015
Oxycarboxin	T310	AR	0.01	mg/kg	WN	014-015
Oxydemeton-Methyl	T310	AR	0.01	mg/kg	WN	014-015
Pencycuron	T310	AR	0.01	mg/kg	WN	014-015
Phorate sulfone	T310	AR	0.01	mg/kg	WN	014-015
Phorate sulfoxide	T310	AR	0.01	mg/kg	WN	014-015
Phosmet	T310	AR	0.01	mg/kg	WN	014-015
Phosphamidon	T310	AR	0.01	mg/kg	WN	014-015
Phoxim	T310	AR	0.01	mg/kg	WN	014-015
Prochloraz	T310	AR	0.01	mg/kg	WN	014-015
Promecarb	T310	AR	0.01	mg/kg	WN	014-015
Propamocarb	T310	AR	0.01	mg/kg	WN	014-015

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Propaquizafop	T310	AR	0.01	mg/kg	WN	014-015
Propargite	T310	AR	0.01	mg/kg	WN	014-015
Propoxur	T310	AR	0.01	mg/kg	WN	014-015
Pymetrozine	T310	AR	0.01	mg/kg	WN	014-015
Pyrifenox	T310	AR	0.01	mg/kg	WN	014-015
Resmethrin	T310	AR	0.01	mg/kg	WN	014-015
Rotenone	T310	AR	0.01	mg/kg	WN	014-015
Spinosad	T310	AR	0.01	mg/kg	WN	014-015
Spirodiclofen	T310	AR	0.01	mg/kg	WN	014-015
Spiromesifen	T310	AR	0.01	mg/kg	WN	014-015
Spiroxamine	T310	AR	0.01	mg/kg	WN	014-015
Tebufenozide	T310	AR	0.01	mg/kg	WN	014-015
Teflubenzuron	T310	AR	0.01	mg/kg	WN	014-015
Temephos	T310	AR	0.01	mg/kg	WN	014-015
Terbufos sulfone	T310	AR	0.01	mg/kg	WN	014-015
Terbufos sulfoxide	T310	AR	0.01	mg/kg	WN	014-015
Thiabendazole	T310	AR	0.01	mg/kg	WN	014-015
Thiacloprid	T310	AR	0.01	mg/kg	WN	014-015
Thiazafluron	T310	AR	0.01	mg/kg	WN	014-015
Thiodicarb	T310	AR	0.01	mg/kg	WN	014-015
Thiofanox	T310	AR	0.01	mg/kg	WN	014-015
Thiophanate Methyl	T310	AR	0.01	mg/kg	WN	014-015
Tolylfluanid	T310	AR	0.01	mg/kg	WN	014-015
Trichlorfon	T310	AR	0.01	mg/kg	WN	014-015
Tridemorph	T310	AR	0.01	mg/kg	WN	014-015
Trifloxysulfuron	T310	AR	0.01	mg/kg	WN	014-015
Triflumuron	T310	AR	0.01	mg/kg	WN	014-015
Triflusulfuron-methyl	T310	AR	0.01	mg/kg	WN	014-015
Triticonazole	T310	AR	0.01	mg/kg	WN	014-015
Vamidothion	T310	AR	0.01	mg/kg	WN	014-015
Vernolate	T310	AR	0.01	mg/kg	WN	014-015
Zoxamide	T310	AR	0.01	mg/kg	WN	014-015
Phenoxy Acetic acid herbicide: 2,4,5-T	T16	AR	0.01	mg/kg	WN	005-006
Phenoxy Acetic acid herbicide: 2,4-D	T16	AR	0.01	mg/kg	WN	005-006
Dichlorprop	T16	AR	0.01	mg/kg	WN	005-006
Fenoprop	T16	AR	0.01	mg/kg	WN	005-006
Phenoxy Acetic acid herbicide: MCPA	T16	AR	0.01	mg/kg	WN	005-006
Mecoprop	T16	AR	0.01	mg/kg	WN	005-006
Arsenic	T257	A40	2.0	mg/kg	U	001-007
Cadmium	T257	A40	0.1	mg/kg	U	001-007
Chromium	T257	A40	0.5	mg/kg	U	001-007
Copper	T257	A40	2	mg/kg	U	001-007
Lead	T257	A40	2	mg/kg	U	001-007
Mercury	T245	A40	1.0	mg/kg	U	001-007
Nickel	T257	A40	0.5	mg/kg	U	001-007
Selenium	T257	A40	3	mg/kg	U	001-007
Zinc	T257	A40	2	mg/kg	U	001-007
Asbestos ID	T27	A40			SU	001-007
Chromium VI	T82	A40	1	mg/kg	N	001-007
pH	T7	A40			U	001-013
SO4(Total)	T102	A40	0.01	%	U	001-007
(Water Soluble) SO4-- expressed as SO4	T242	A40	0.01	g/l	U	001-013
Cyanide(Total)	T4	AR	1	mg/kg	U	001-007
Phenols(Mono)	T4	AR	0.5	mg/kg	U	001-007
TPH (C5-C6)	T54	AR	0.10	mg/kg	N	002-003,007
TPH (C6-C8)	T54	AR	0.10	mg/kg	N	002-003,007
TPH (C8-C10)	T54	AR	0.10	mg/kg	N	002-003,007
TPH (C10-C12)	T219	AR	2	mg/kg	U	002-003,007
TPH (C12-C16)	T219	AR	2	mg/kg	U	002-003,007
TPH (C16-C21)	T219	AR	2	mg/kg	U	002-003,007
TPH (C21-C35)	T219	AR	2	mg/kg	U	002-003,007
Naphthalene	T16	AR	0.1	mg/kg	U	001-007
Acenaphthylene	T16	AR	0.1	mg/kg	U	001-007
Acenaphthene	T16	AR	0.1	mg/kg	U	001-007
Fluorene	T16	AR	0.1	mg/kg	U	001-007
Phenanthrene	T16	AR	0.1	mg/kg	U	001-007
Anthracene	T16	AR	0.1	mg/kg	U	001-007
Fluoranthene	T16	AR	0.1	mg/kg	N	001-007
Pyrene	T16	AR	0.1	mg/kg	N	001-007
Benzo(a)Anthracene	T16	AR	0.1	mg/kg	U	001-007

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Chrysene	T16	AR	0.1	mg/kg	U	001-007
Benzo(b/k)Fluoranthene	T16	AR	0.1	mg/kg	U	001-007
Benzo(a)Pyrene	T16	AR	0.1	mg/kg	U	001-007
Indeno(123-cd)Pyrene	T16	AR	0.1	mg/kg	U	001-007
Dibenzo(ah)Anthracene	T16	AR	0.1	mg/kg	U	001-007
Benzo(ghi)Perylene	T16	AR	0.1	mg/kg	U	001-007
PAH(total)	T16	AR	0.1	mg/kg	U	001-007
Sulphur (total)	T6	A40	0.01	%	U	002,004,006

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 380960-1

Date of Report: 19-Mar-2014

Customer: Resource Environmental Consultants Ltd
Environment House
Segensworth Business Centre
Segensworth Road (West)
Fareham
PO15 5RQ

Customer Contact: Dr Adrian King

Customer Job Reference: 20612
Customer Site Reference: Sompting, West Sussex
Date Job Received at SAL: 06-Mar-2014
Date Analysis Started: 06-Mar-2014
Date Analysis Completed: 19-Mar-2014

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

UKAS TESTING
1650

Report checked
and authorised by :
Sarah Watt-Roy
Project Manager

Issued by :
Sarah Watt-Roy
Project Manager

SAL Reference: 380960
Project Site: Sompting, West Sussex
Customer Reference: 20612

Water Analysed as Water
Miscellaneous

	SAL Reference	380960 001	380960 002	380960 003	380960 004
	Customer Sample Reference	WS102	WS106	WS109	WS113
	Date Sampled	05-MAR-2014	05-MAR-2014	05-MAR-2014	05-MAR-2014
Determinand	**Method** / **Test Sample** / **LOD** / **Units**				
As (Dissolved)	T281 / F / 0.2 / µg/l	**0.8**	**0.4**	**0.4**	**1.9**
B (Dissolved)	T281 / F / 50 / µg/l	**71**	**53**	**51**	**120**
Cd (Dissolved)	T281 / F / 0.02 / µg/l	**0.03**	**0.03**	**0.03**	**0.09**
Cr (Dissolved)	T281 / F / 1 / µg/l	<1	<1	<1	**1**
Cu (Dissolved)	T281 / F / 0.5 / µg/l	**1.0**	**1.6**	**1.1**	**3.6**
Pb (Dissolved)	T281 / F / 0.3 / µg/l	<0.3	<0.3	<0.3	**0.6**
Hg (Dissolved)	T281 / F / 0.05 / µg/l	<0.05	<0.05	<0.05	<0.05
Ni (Dissolved)	T281 / F / 1 / µg/l	**10**	**4**	**8**	**11**
Se (Dissolved)	T281 / F / 0.5 / µg/l	**0.9**	**1.4**	**1.4**	**3.2**
Zn (Dissolved)	T281 / F / 2 / µg/l	**6**	**5**	**6**	**8**

SAL Reference: 380960
Project Site: Sompting, West Sussex
Customer Reference: 20612

Water Analysed as Water
REC TPH (CWG)

	SAL Reference	380960 004
	Customer Sample Reference	WS113
	Date Sampled	05-MAR-2014
Determinand	**Method** / **Test Sample** / **LOD** / **Units**	
Benzene	T54 / AR / 1 / µg/l	(13) <1
EthylBenzene	T54 / AR / 1 / µg/l	<1
M/P Xylene	T54 / AR / 1 / µg/l	**2**
O Xylene	T54 / AR / 1 / µg/l	**1**
Toluene	T54 / AR / 1 / µg/l	<1
Methyl tert-Butyl Ether	T54 / AR / 1 / µg/l	<1
TPH (C5-C6 aliphatic)	T215 / AR / 10 / µg/l	<10
TPH (C6-C7 aromatic)	T215 / AR / 10 / µg/l	<10
TPH (C6-C8 aliphatic)	T215 / AR / 10 / µg/l	<10
TPH (C7-C8 aromatic)	T215 / AR / 10 / µg/l	<10
TPH (C8-C10 aliphatic)	T215 / AR / 10 / µg/l	<10
TPH (C8-C10 aromatic)	T215 / AR / 10 / µg/l	<10
TPH DW(C10-C12 aliphatic)	T81 / AR / 0.01 / mg/l	<0.01
TPH DW(C10-C12 aromatic)	T81 / AR / 0.01 / mg/l	<0.01
TPH DW(C12-C16 aliphatic)	T81 / AR / 0.01 / mg/l	<0.01
TPH DW(C12-C16 aromatic)	T81 / AR / 0.01 / mg/l	<0.01
TPH DW(C16-C21 aliphatic)	T81 / AR / 0.01 / mg/l	<0.01
TPH DW(C16-C21 aromatic)	T81 / AR / 0.01 / mg/l	<0.01
TPH DW(C21-C35 aliphatic)	T81 / AR / 0.01 / mg/l	<0.01
TPH DW(C21-C35 aromatic)	T81 / AR / 0.01 / mg/l	<0.01

SAL Reference: 380960
Project Site: Sompting, West Sussex
Customer Reference: 20612

Water Analysed as Water
Total and Speciated USEPA16 PAH (SE)

				SAL Reference	**380960 001**	**380960 002**	**380960 004**
				Customer Sample Reference	**WS102**	**WS106**	**WS113**
				Date Sampled	**05-MAR-2014**	**05-MAR-2014**	**05-MAR-2014**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**			
Naphthalene	T149	AR	0.01	µg/l	**0.12**	**0.13**	**0.13**
Acenaphthylene	T149	AR	0.01	µg/l	<0.01	<0.01	<0.01
Acenaphthene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.12**
Fluorene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.06**
Phenanthrene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.19**
Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.05**
Fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.24**
Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.25**
Benzo(a)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.08**
Chrysene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.13**
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.07**
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.09**
Benzo(a)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.07**
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.06**
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.03**
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	<0.01	<0.01	**0.07**
PAH(total)	T149	AR	0.01	µg/l	**0.12**	**0.12**	**2.7**

Index to symbols used in 380960-1

Value	Description
F	Filtered
AR	As Received
13	Results have been blank corrected.
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Method Index

Value	Description
T81	GC/FID (LV)
T54	GC/MS (Headspace)
T149	GC/MS (SIR)
T215	GC/MS (Headspace)(LV)
T281	ICP/MS (Filtered)

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
As (Dissolved)	T281	F	0.2	µg/l	U	001-004
B (Dissolved)	T281	F	50	µg/l	U	001-004
Cd (Dissolved)	T281	F	0.02	µg/l	U	001-004
Cr (Dissolved)	T281	F	1	µg/l	U	001-004
Cu (Dissolved)	T281	F	0.5	µg/l	U	001-004
Pb (Dissolved)	T281	F	0.3	µg/l	U	001-004
Hg (Dissolved)	T281	F	0.05	µg/l	U	001-004
Ni (Dissolved)	T281	F	1	µg/l	U	001-004
Se (Dissolved)	T281	F	0.5	µg/l	U	001-004
Zn (Dissolved)	T281	F	2	µg/l	U	001-004
Benzene	T54	AR	1	µg/l	U	004
EthylBenzene	T54	AR	1	µg/l	U	004
M/P Xylene	T54	AR	1	µg/l	U	004
O Xylene	T54	AR	1	µg/l	U	004
Toluene	T54	AR	1	µg/l	U	004
Methyl tert-Butyl Ether	T54	AR	1	µg/l	U	004
TPH (C5-C6 aliphatic)	T215	AR	10	µg/l	N	004

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
TPH (C6-C7 aromatic)	T215	AR	10	µg/l	N	004
TPH (C6-C8 aliphatic)	T215	AR	10	µg/l	N	004
TPH (C7-C8 aromatic)	T215	AR	10	µg/l	N	004
TPH (C8-C10 aliphatic)	T215	AR	10	µg/l	N	004
TPH (C8-C10 aromatic)	T215	AR	10	µg/l	N	004
TPH DW(C10-C12 aliphatic)	T81	AR	0.01	mg/l	N	004
TPH DW(C10-C12 aromatic)	T81	AR	0.01	mg/l	N	004
TPH DW(C12-C16 aliphatic)	T81	AR	0.01	mg/l	N	004
TPH DW(C12-C16 aromatic)	T81	AR	0.01	mg/l	N	004
TPH DW(C16-C21 aliphatic)	T81	AR	0.01	mg/l	N	004
TPH DW(C16-C21 aromatic)	T81	AR	0.01	mg/l	N	004
TPH DW(C21-C35 aliphatic)	T81	AR	0.01	mg/l	N	004
TPH DW(C21-C35 aromatic)	T81	AR	0.01	mg/l	N	004
Naphthalene	T149	AR	0.01	µg/l	U	001-002,004
Acenaphthylene	T149	AR	0.01	µg/l	U	001-002,004
Acenaphthene	T149	AR	0.01	µg/l	U	001-002,004
Fluorene	T149	AR	0.01	µg/l	U	001-002,004
Phenanthrene	T149	AR	0.01	µg/l	U	001-002,004
Anthracene	T149	AR	0.01	µg/l	U	001-002,004
Fluoranthene	T149	AR	0.01	µg/l	U	001-002,004
Pyrene	T149	AR	0.01	µg/l	U	001-002,004
Benzo(a)Anthracene	T149	AR	0.01	µg/l	U	001-002,004
Chrysene	T149	AR	0.01	µg/l	U	001-002,004
Benzo(b)fluoranthene	T149	AR	0.01	µg/l	N	001-002,004
Benzo(k)fluoranthene	T149	AR	0.01	µg/l	U	001-002,004
Benzo(a)Pyrene	T149	AR	0.01	µg/l	U	001-002,004
Indeno(123-cd)Pyrene	T149	AR	0.01	µg/l	U	001-002,004
Dibenzo(ah)Anthracene	T149	AR	0.01	µg/l	U	001-002,004
Benzo(ghi)Perylene	T149	AR	0.01	µg/l	U	001-002,004
PAH(total)	T149	AR	0.01	µg/l	N	001-002,004

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Scientific Analysis Laboratories Ltd

Certificate of Analysis

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Report Number: 399205-1

Date of Report: 11-Jun-2014

Customer: Resource Environmental Consultants Ltd
Environment House
Segensworth Business Centre
Segensworth Road (West)
Fareham
PO15 5RQ

Customer Contact: Dr Adrian King

Customer Job Reference: 20612
Customer Site Reference: Sompting
Date Job Received at SAL: 03-Jun-2014
Date Analysis Started: 03-Jun-2014
Date Analysis Completed: 11-Jun-2014

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

UKAS TESTING
1650

Report checked
and authorised by :
Sarah Watt-Roy
Project Manager

Issued by :
Sarah Watt-Roy
Project Manager



SAL Reference: 399205
Project Site: Sompting
Customer Reference: 20612

Soil Analysed as Soil
REC002 (SE)

					SAL Reference	**399205 001**	**399205 002**	**399205 003**	**399205 004**	**399205 005**	**399205 006**
					Customer Sample Reference	**BH102 D1 @ 0.50m**	**BH103 D2 @ 1.00m**	**TP133 ES1 @ 0.50m**	**TP123 ES1 @ 0.70m**	**TP134 ES1 @ 0.30m**	**TP141 ES1 @ 0.50m**
					Date Sampled	**20-MAY-2014**	**22-MAY-2014**	**Deviating**	**Deviating**	**Deviating**	**Deviating**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**							
Arsenic	T257	A40	2.0	mg/kg		**10**	**13**	**12**	**7.8**	**8.2**	**9.6**
Cadmium	T257	A40	0.1	mg/kg		**0.3**	**0.4**	<0.1	**0.5**	**0.3**	**0.4**
Chromium	T257	A40	0.5	mg/kg		**26**	**38**	**28**	**18**	**19**	**21**
Copper	T257	A40	2	mg/kg		**15**	**15**	**17**	**14**	**14**	**14**
Lead	T257	A40	2	mg/kg		**22**	**21**	**15**	**25**	**25**	**25**
Mercury	T245	A40	1.0	mg/kg		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Nickel	T257	A40	0.5	mg/kg		**21**	**22**	**22**	**13**	**13**	**15**
Selenium	T257	A40	3	mg/kg		<3	<3	<3	<3	<3	<3
Zinc	T257	A40	2	mg/kg		**54**	**56**	**50**	**52**	**49**	**52**
Asbestos ID	T27	A40				-	Asbestos not detected **-**	Asbestos not detected **-**	Asbestos not detected **-**	Asbestos not detected **-**	-
Total Organic Carbon	T21	A40	0.1	%		**0.7**	**0.5**	**0.4**	**1.5**	**1.0**	**1.7**
Chromium VI	T82	A40	1	mg/kg		<1	<1	<1	<1	<1	<1
pH	T7	A40				**6.7**	**6.8**	**7.0**	**6.5**	**6.0**	**7.2**
SO4(Total)	T102	A40	0.01	%		**0.04**	**0.03**	**0.02**	**0.05**	**0.04**	**0.06**
(Water Soluble) SO4-- expressed as SO4	T242	A40	0.01	g/l		**0.01**	**0.02**	**0.02**	**0.01**	**0.01**	**0.01**
Cyanide(Total)	T4	AR	1	mg/kg		<1	<1	<1	<1	<1	<1
Phenols(Mono)	T4	AR	0.5	mg/kg		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

SAL Reference: 399205
Project Site: Sompting
Customer Reference: 20612

Soil Analysed as Soil
Miscellaneous

					SAL Reference	**399205 007**	**399205 008**	**399205 009**	**399205 010**
					Customer Sample Reference	**BH101 @ 6.00m**	**BH104 @ 12.00m**	**BH105 @ 15.50m**	**BH106 @ 19.50m**
					Date Sampled	**21-MAY-2014**	**23-MAY-2014**	**27-MAY-2014**	**28-MAY-2014**
Determinand	**Method**	**Test Sample**	**LOD**	**Units**					
(Water Soluble) SO4-- expressed as SO4	T242	A40	0.01	g/l		**0.01**	**0.02**	**0.02**	**0.02**
pH	T7	A40				**8.6**	**8.8**	**8.9**	**8.9**

SAL Reference: 399205
Project Site: Sompting
Customer Reference: 20612

Soil Analysed as Soil

Total and Speciated USEPA16 PAH (SE)

					SAL Reference	399205 003	399205 005	399205 011
					Customer Sample Reference	TP133 ES1 @ 0.50m	TP134 ES1 @ 0.30m	TP119 ES1 @ 0.40m
					Date Sampled	Deviating	Deviating	Deviating
Determinand	**Method**	**Test Sample**	**LOD**	**Units**				
Naphthalene	T16	AR	0.1	mg/kg	<0.1	<0.1	<0.1
Acenaphthylene	T16	AR	0.1	mg/kg	<0.1	<0.1	<0.1
Acenaphthene	T16	AR	0.1	mg/kg	<0.1	<0.1	<0.1
Fluorene	T16	AR	0.1	mg/kg	<0.1	<0.1	<0.1
Phenanthrene	T16	AR	0.1	mg/kg	<0.1	<0.1	<0.1
Anthracene	T16	AR	0.1	mg/kg	<0.1	<0.1	<0.1
Fluoranthene	T16	AR	0.1	mg/kg	<0.1	<0.1	<0.1
Pyrene	T16	AR	0.1	mg/kg	<0.1	<0.1	<0.1
Benzo(a)Anthracene	T16	AR	0.1	mg/kg	<0.1	<0.1	<0.1
Chrysene	T16	AR	0.1	mg/kg	<0.1	<0.1	<0.1
Benzo(b/k)Fluoranthene	T16	AR	0.1	mg/kg	<0.1	**0.2**	<0.1
Benzo(a)Pyrene	T16	AR	0.1	mg/kg	<0.1	<0.1	<0.1
Indeno(123-cd)Pyrene	T16	AR	0.1	mg/kg	<0.1	<0.1	<0.1
Dibenzo(ah)Anthracene	T16	AR	0.1	mg/kg	<0.1	<0.1	<0.1
Benzo(ghi)Perylene	T16	AR	0.1	mg/kg	<0.1	<0.1	<0.1
PAH(total)	T16	AR	0.1	mg/kg	<0.1	**0.2**	<0.1

Index to symbols used in 399205-1

Value	Description
AR	As Received
A40	Assisted dried < 40C
W	Analysis was performed at another SAL laboratory
S	Analysis was subcontracted
U	Analysis is UKAS accredited
N	Analysis is not UKAS accredited

Notes

Where an asbestos result of none detected is reported, this is obtained from analysis of a representative sub sample.
003-006, 011- The date of sampling has not been provided and therefore the time from sampling to analysis is unknown. It Is possible therefore that the results provided may be compromised

Method Index

Value	Description
T21	OX/IR
T7	Probe
T257	ICP/OES (SIM) (Aqua Regia Extraction)
T4	Colorimetry
T245	ICP/OES(Aqua Regia Extraction)
T27	PLM
T82	ICP/OES (Sim)
T102	ICP/OES (HCl extract)
T242	2:1 Extraction/ICP/OES (TRL 447 T1)
T16	GC/MS

Accreditation Summary

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Arsenic	T257	A40	2.0	mg/kg	U	001-006
Cadmium	T257	A40	0.1	mg/kg	U	001-006
Chromium	T257	A40	0.5	mg/kg	U	001-006
Copper	T257	A40	2	mg/kg	U	001-006
Lead	T257	A40	2	mg/kg	U	001-006
Mercury	T245	A40	1.0	mg/kg	U	001-006

Determinand	Method	Test Sample	LOD	Units	Symbol	SAL References
Nickel	T257	A40	0.5	mg/kg	U	001-006
Selenium	T257	A40	3	mg/kg	U	001-006
Zinc	T257	A40	2	mg/kg	U	001-006
Asbestos ID	T27	A40			SU	002-005
Total Organic Carbon	T21	A40	0.1	%	WN	001-006
Chromium VI	T82	A40	1	mg/kg	N	001-006
pH	T7	A40			U	001-010
SO4(Total)	T102	A40	0.01	%	U	001-006
(Water Soluble) SO4-- expressed as SO4	T242	A40	0.01	g/l	U	001-010
Cyanide(Total)	T4	AR	1	mg/kg	U	001-006
Phenols(Mono)	T4	AR	0.5	mg/kg	U	001-006
Naphthalene	T16	AR	0.1	mg/kg	U	003,005,011
Acenaphthylene	T16	AR	0.1	mg/kg	U	003,005,011
Acenaphthene	T16	AR	0.1	mg/kg	U	003,005,011
Fluorene	T16	AR	0.1	mg/kg	U	003,005,011
Phenanthrene	T16	AR	0.1	mg/kg	U	003,005,011
Anthracene	T16	AR	0.1	mg/kg	U	003,005,011
Fluoranthene	T16	AR	0.1	mg/kg	N	003,005,011
Pyrene	T16	AR	0.1	mg/kg	N	003,005,011
Benzo(a)Anthracene	T16	AR	0.1	mg/kg	U	003,005,011
Chrysene	T16	AR	0.1	mg/kg	U	003,005,011
Benzo(b/k)Fluoranthene	T16	AR	0.1	mg/kg	U	003,005,011
Benzo(a)Pyrene	T16	AR	0.1	mg/kg	U	003,005,011
Indeno(123-cd)Pyrene	T16	AR	0.1	mg/kg	U	003,005,011
Dibenzo(ah)Anthracene	T16	AR	0.1	mg/kg	U	003,005,011
Benzo(ghi)Perylene	T16	AR	0.1	mg/kg	U	003,005,011
PAH(total)	T16	AR	0.1	mg/kg	U	003,005,011

APPENDIX VI

Geotechnical Testing Results

PSL
Professional Soils Laboratory

LABORATORY REPORT

UKAS TESTING
4043

Contract Number: PSL14/0756

Client's Reference: Report Date: 25 February 2014

Client Name: REC Fareham
Environment House
Segensworth Business Centre
Segensworth Road West
Fareham
PO15 5RQ

For the attention of: Will Spraggs

Contract Title: Sompting, West Sussex

Date Received: 14/2/2014
Date Commenced: 14/2/2014
Date Completed: 25/2/2014

Notes: Observations and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

R Gunson (Director)
A Watkins (Director)
M Beastall (Laboratory Manager)

[redacted]

D Lambe (Senior Technician)
S Royle (Senior Technician)

5 – 7 Hexthorpe Road, Hexthorpe,
Doncaster DN4 0AR
tel: +44 (0)844 815 6641
fax: +44 (0)844 815 6642
e-mail: rgunson@prosoils.co.uk
awatkins@prosoils.co.uk

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Depth m	Description of Sample
WS101	1	D	1.30	Light brown gravelly very sandy SILT.
WS102	2	D	2.70	Light brown sandy very silty GRAVEL.
WS103	3	D	3.40	Brown sandy very clayey GRAVEL.
WS104	5	D	4.60	Light brown slightly sandy CLAY.
WS106	1	D	1.00	Brown gravelly sandy CLAY.
WS107	2	D	0.70	Brown sandy CLAY.
WS108	3	D	3.80	Light brown very sandy very silty GRAVEL.
WS109	2	D	2.30	Brown gravelly sandy CLAY.
WS110	6	D	4.20	Light brown very gravelly very sandy SILT.
WS111	1	D	1.50	Brown sandy CLAY.

PSL
Professional Soils Laboratory

Compiled by	Date	Checked by	Date	Approved by	Date
[redacted]	25/02/14	[redacted]	25/02/14	[redacted]	25/02/14

SOMPTING, WEST SUSSEX.

Contract No: PSL14/0756

Client Ref:

SUMMARY OF SOIL CLASSIFICATION TESTS

(B.S. 1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Depth m	Moisture Content % Clause 3.2	Bulk Density Mg/m^3 Clause 7.2	Dry Density Mg/m^3 Clause 7.2	Particle Density Mg/m^3 Clause 8.2	Liquid Limit % Clause 4.3/4.4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	% Passing .425mm	Remarks
WS101	1	D	1.30	16					NP			
WS102	2	D	2.70	14					NP			
WS103	3	D	3.40	15				41	22	19	38	Intermediate plasticity CI.
WS104	5	D	4.60	24				64	27	37	100	High plasticity CH.
WS106	1	D	1.00	19				38	21	17	82	Intermediate plasticity CI.
WS107	2	D	0.70	21				38	20	18	96	Intermediate plasticity CI.
WS108	3	D	3.80	10					NP			
WS109	2	D	2.30	19				36	20	16	83	Intermediate plasticity CI.
WS110	6	D	4.20	6.1					NP			
WS111	1	D	1.50	21				37	21	16	97	Intermediate plasticity CI.

SYMBOLS : NP : Non Plastic *** : Liquid Limit and Plastic Limit Wet Sieved.**

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Professional Soils Laboratory

Compiled by	Date	Checked by	Date	Approved by	Date
[redacted]	25/02/14	[redacted]	25/02/14	[redacted]	25/02/14

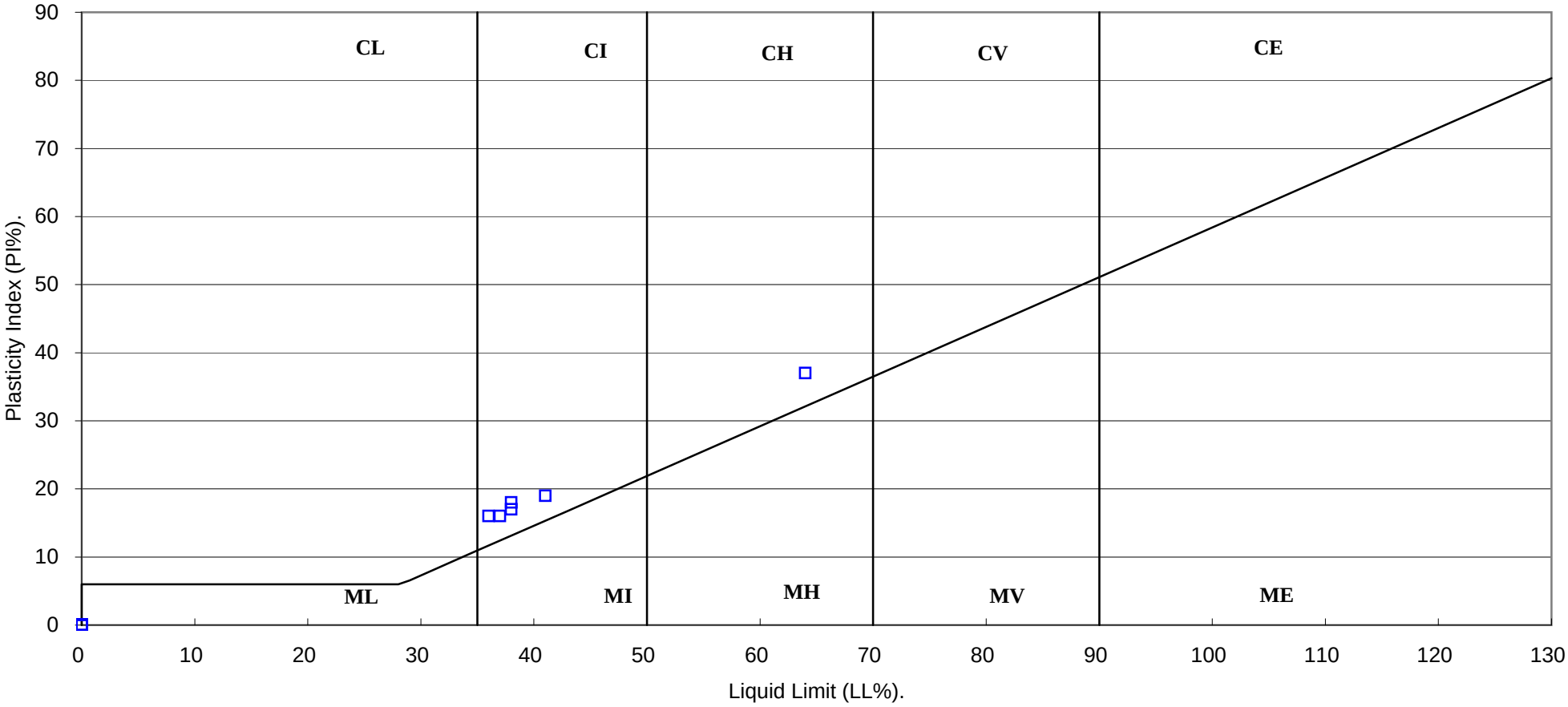
SOMPTING, WEST SUSSEX.

Contract No: **PSL14/0756**

Client Ref:

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.

(B.S.5930 : 1999)



PSL Professional Soils Laboratory	Compiled by	Date	Checked by	Date	Approved by	Date
	[redacted]	25/02/14	[redacted]	25/02/14	[redacted]	25/02/14
	SOMPTING, WEST SUSSEX.				Contract No:	PSL14/0756
					Client Ref:	

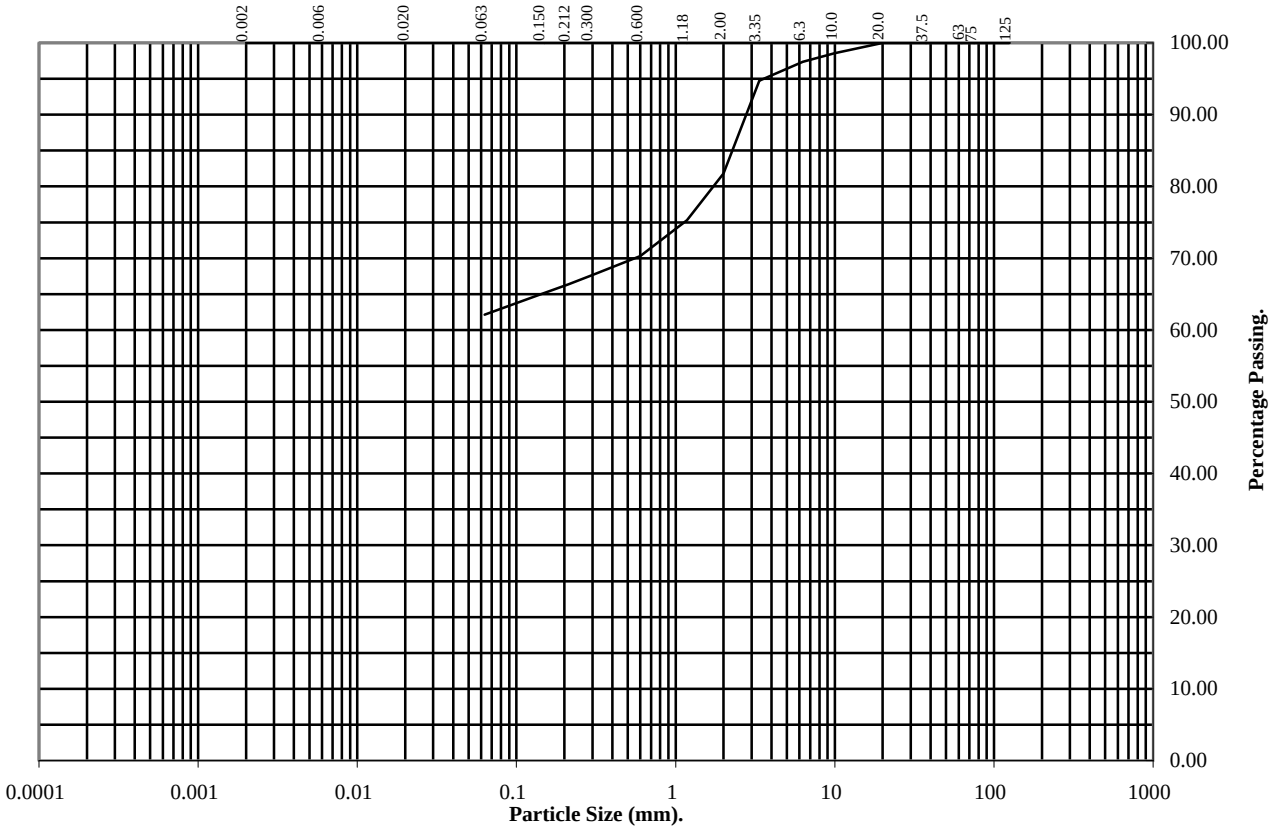
Particle Size Distribution Test

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **WS101** **Depth (m):** **1.30**

Sample Number: **1** **Sample Type:** **D**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	99
6.3	97
3.35	95
2	82
1.18	75
0.6	70
0.3	68
0.212	66
0.15	65
0.063	62

Soil Fraction	Total Percentage
Cobbles	0
Gravel	18
Sand	20
Silt / Clay	62

Remarks:

See summary of soils descriptions.

Checked By	Date	Approved By	Date
[redacted]	25/02/14	[redacted]	25/02/14

PSL Professional Soils Laboratory	**SOMPTING, WEST SUSSEX.**	**Contract No.: PSL14/0756**

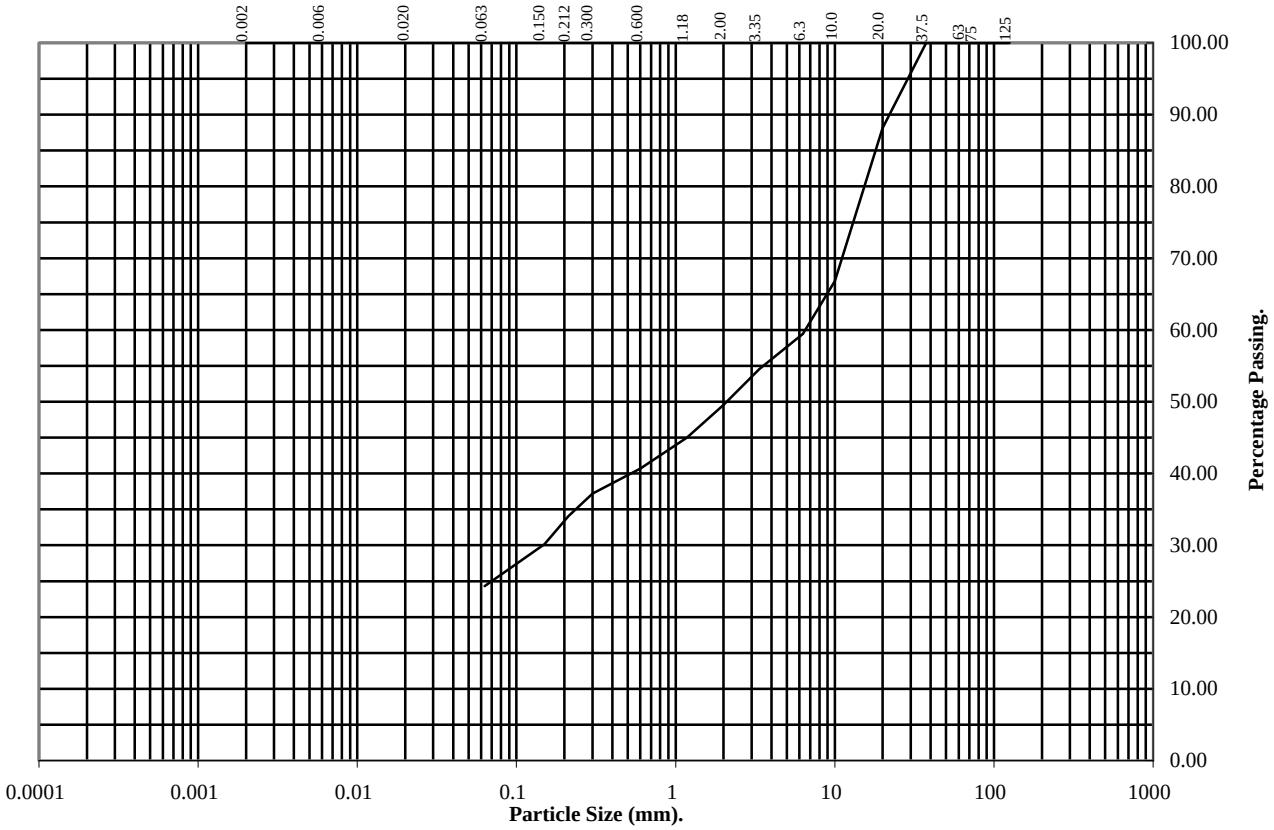
Particle Size Distribution Test

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **WS108** **Depth (m):** **3.80**

Sample Number: **3** **Sample Type:** **D**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	88
10	67
6.3	59
3.35	55
2	50
1.18	45
0.6	41
0.3	37
0.212	34
0.15	30
0.063	24

Soil Fraction	Total Percentage
Cobbles	0
Gravel	50
Sand	26
Silt / Clay	24

Remarks:

See summary of soils descriptions.

Checked By	Date	Approved By	Date
[redacted]	25/02/14	[redacted]	25/02/14

PSL Professional Soils Laboratory	**SOMPTING, WEST SUSSEX.**	**Contract No.: PSL14/0756**

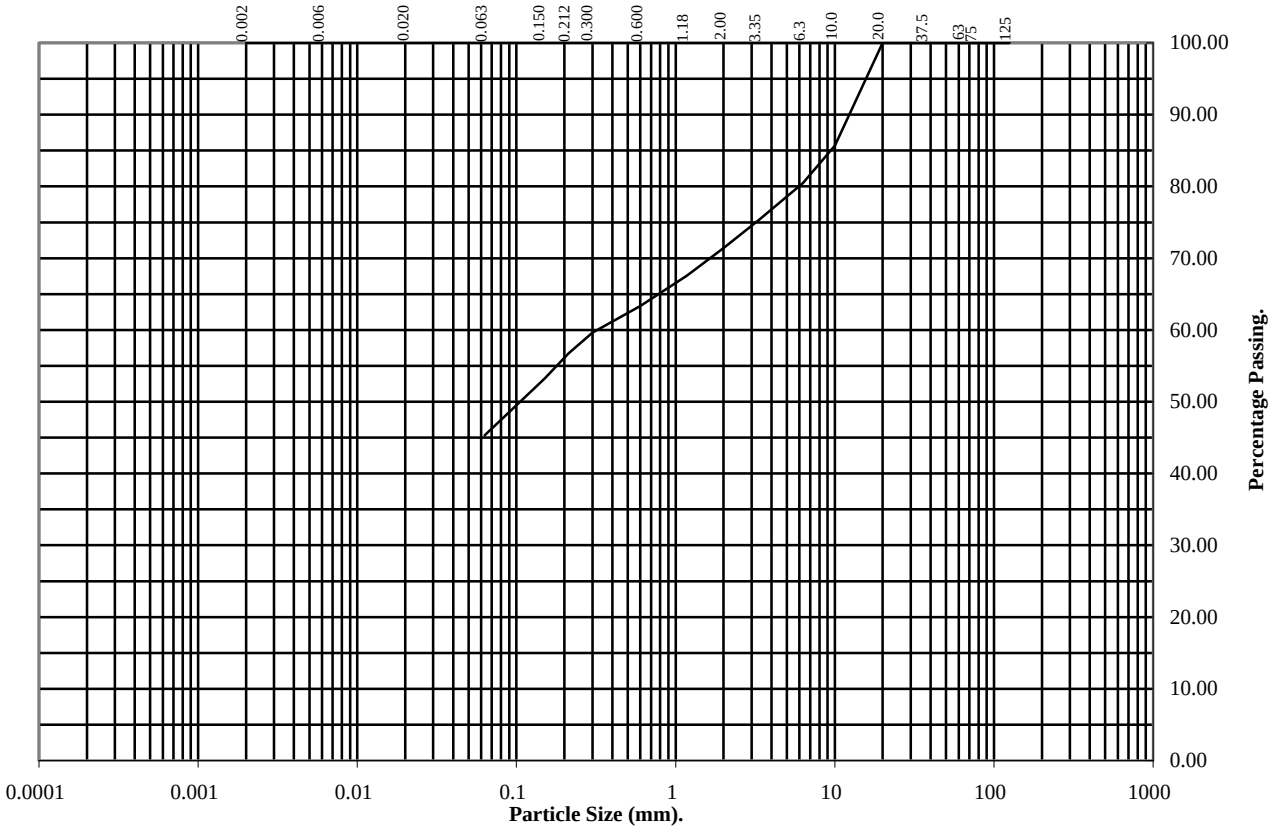
Particle Size Distribution Test

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **WS110** **Depth (m):** **4.20**

Sample Number: **6** **Sample Type:** **D**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	86
6.3	80
3.35	75
2	71
1.18	68
0.6	63
0.3	60
0.212	57
0.15	53
0.063	45

Soil Fraction	Total Percentage
Cobbles	0
Gravel	29
Sand	26
Silt / Clay	45

Remarks:

See summary of soils descriptions.

Checked By	Date	Approved By	Date
[redacted]	25/02/14	[redacted]	25/02/14

PSL Professional Soils Laboratory	**SOMPTING, WEST SUSSEX.**	**Contract No.: PSL14/0756**

PSL
Professional Soils Laboratory

LABORATORY REPORT

UKAS TESTING
4043

Contract Number: PSL14/2716

Client's Reference: Report Date: 26 June 2014

Client Name: REC Fareham
Environment House
Segensworth Business Centre
Segensworth Road West
Fareham
PO15 5RQ

For the attention of: Will Spraggs

Contract Title: Sompting, West Sussex

Date Received: 03/06/2014
Date Commenced: 03/06/2014
Date Completed: 26/06/2014

Notes: Observations and Interpretations are outside the UKAS Accreditation

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Checked and Approved Signatories:

R Gunson (Director)
A Watkins (Director)
M Beastall (Laboratory Manager)

[redacted]

D Lambe (Senior Technician)
S Royle (Senior Technician)

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tel: +44 (0)844 815 6641
fax: +44 (0)844 815 6642
e-mail: rgunson@prosoils.co.uk
awatkins@prosoils.co.uk

SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Depth m	Description of Sample
BH101	15	U	8.00	Very hard white CHALK.
BH103		D	1.70	Brown very gravelly very sandy silty CLAY.
BH105	12	D	6.00	Off White structureless CHALK.
BH106	5	U	2.00	Stiff brown very gravelly very sandy silty CLAY.
SA1	2	B	2.00	Brown gravelly very sandy silty CLAY.
TP135	2	B	2.10	Brown slightly sandy clayey silty GRAVEL.

PSL
Professional Soils Laboratory

Compiled by	Date	Checked by	Date	Approved by	Date
[redacted]	26/06/14	[redacted]	26/06/14	[redacted]	26/06/14

SOMPTING, WEST SUSSEX.

Contract No: PSL14/2716

Client Ref: 20612

SUMMARY OF SOIL CLASSIFICATION TESTS

(B.S. 1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Depth (m)	Moisture Content % Clause 3.2	Bulk Density Mg/m^3 Clause 7.2	Dry Density Mg/m^3 Clause 7.2	Particle Density Mg/m^3 Clause 8.	Liquid Limit % Clause 4.3/4.4	Plastic Limit % Clause 5.3	Plasticity Index % Clause 5.4	% Passing .425mm	Remarks
BH101	15	U	8.00	19					NP			
BH103		D	1.70	11				34	17	17	58	Low plasticity CL.
BH106	5	U	2.00	14				34	17	17	62	Low plasticity CL.

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Compiled by	Date	Checked by	Date	Approved by	Date
[redacted]	26/06/14	[redacted]	26/06/14	[redacted]	26/06/14

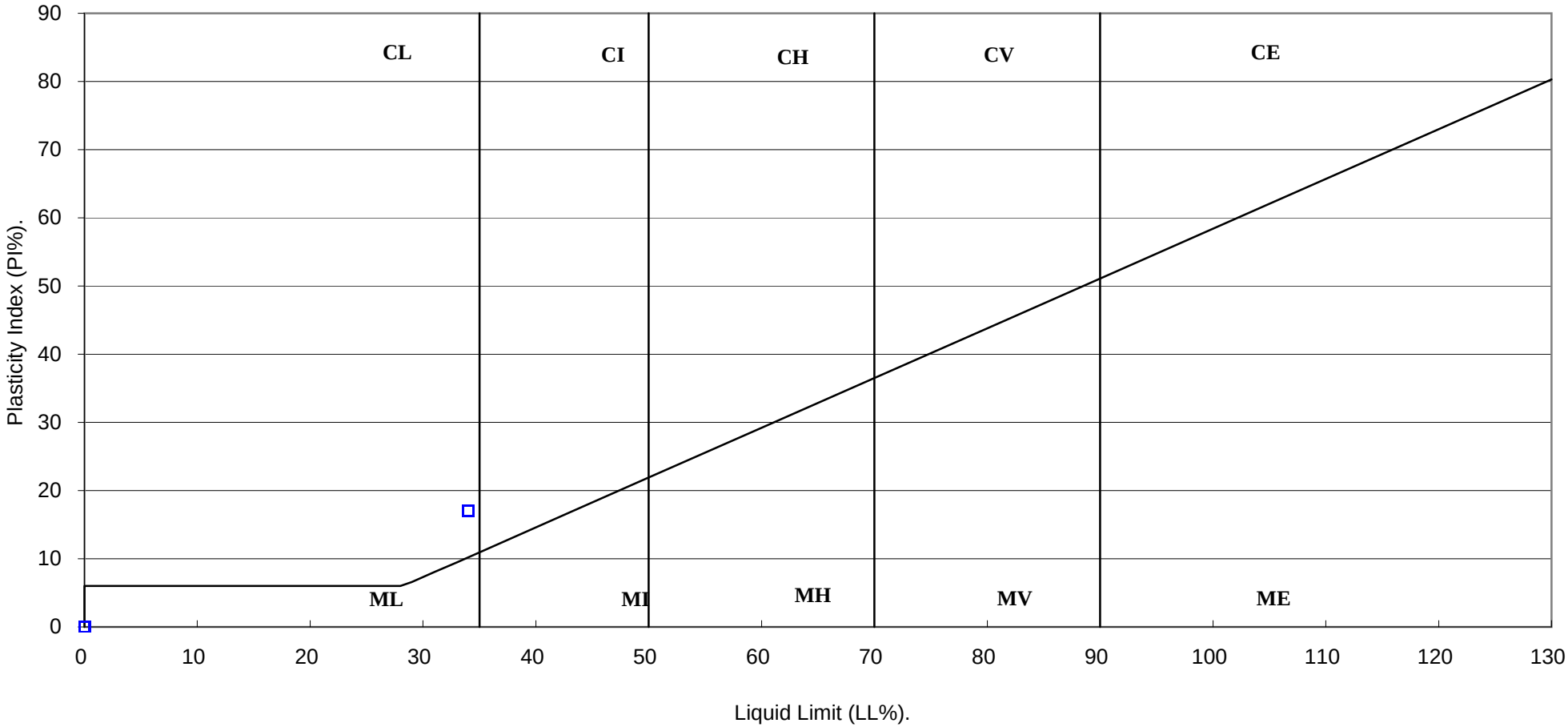
SOMPTING, WEST SUSSEX.

Contract No: PSL14/2716

Client Ref: 20612

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.

(B.S.5930 : 1999)



PSL Professional Soils Laboratory	Compiled by	Date	Checked by	Date	Approved by	Date
	[redacted]	26/06/14	[redacted]	26/06/14	[redacted]	26/06/14
	SOMPTING, WEST SUSSEX.				Contract No:	PSL14/2716
					Client Ref:	20612

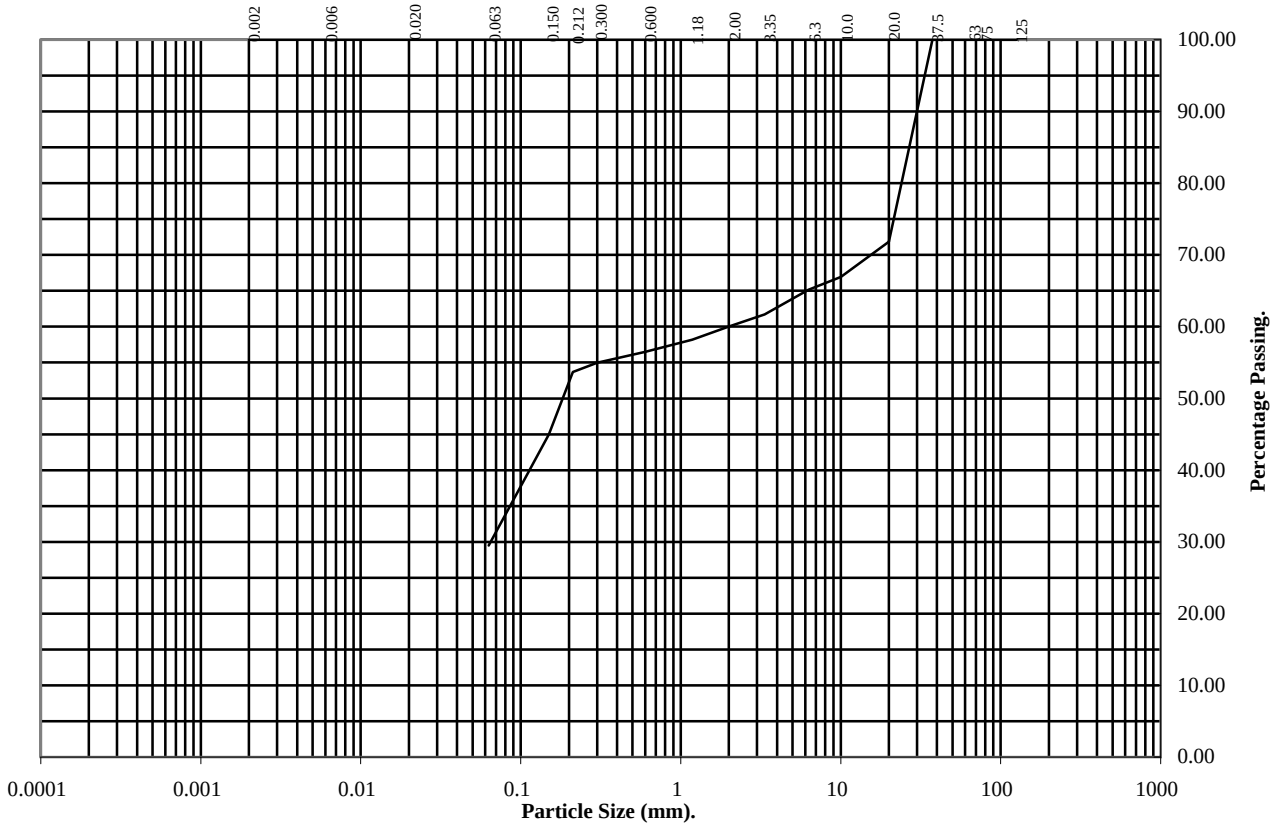
Particle Size Distribution Test

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **BH105** **Depth (m):** **6.00**

Sample Number: **12** **Sample Type:** **D**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	72
10	67
6.3	65
3.35	62
2	60
1.18	58
0.6	56
0.3	55
0.212	54
0.15	45
0.063	29

Soil Fraction	Total Percentage
Cobbles	0
Gravel	40
Sand	31
Silt / Clay	29

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
[redacted]	26/06/14	[redacted]	26/06/14

PSL Professional Soils Laboratory	**SOMPTING, WEST SUSSEX.**	**Contract No.: PSL14/2716**

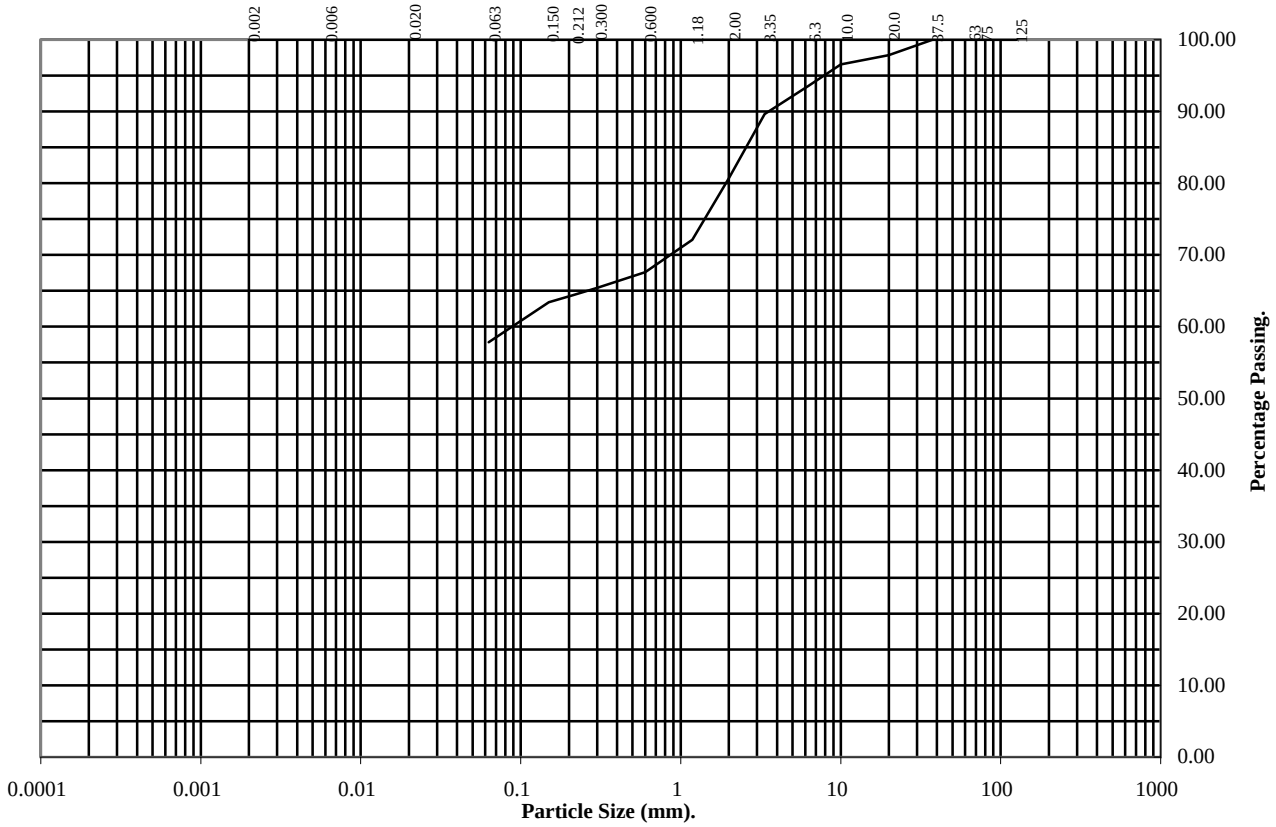
Particle Size Distribution Test

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **SA1** **Depth (m):** **2.00**

Sample Number: **2** **Sample Type:** **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	98
10	97
6.3	94
3.35	90
2	81
1.18	72
0.6	68
0.3	65
0.212	64
0.15	63
0.063	58

Soil Fraction	Total Percentage
Cobbles	0
Gravel	19
Sand	23
Silt / Clay	58

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
[redacted]	26/06/14	[redacted]	26/06/14

PSL Professional Soils Laboratory	**SOMPTING, WEST SUSSEX.**	**Contract No.: PSL14/2716**

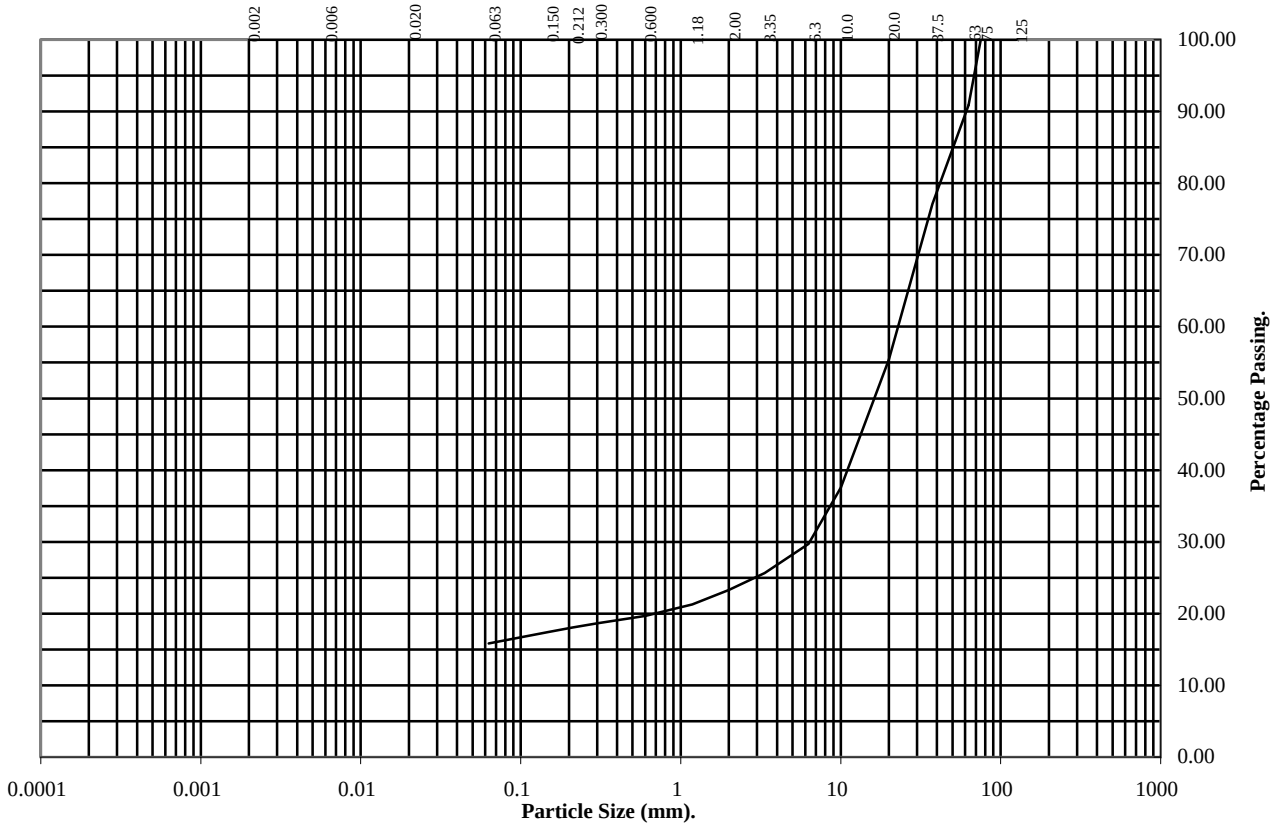
Particle Size Distribution Test

BS1377 : Part 2 : 1990

Wet Sieve, Clause 9.2

Hole Number: **TP135** **Depth (m):** **2.10**

Sample Number: **2** **Sample Type:** **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	91
37.5	77
20	55
10	38
6.3	30
3.35	26
2	23
1.18	21
0.6	20
0.3	19
0.212	18
0.15	17
0.063	16

Soil Fraction	Total Percentage
Cobbles	9
Gravel	68
Sand	7
Silt / Clay	16

Remarks:
See summary of soil descriptions.

Checked By	Date	Approved By	Date
[redacted]	26/06/14	[redacted]	26/06/14

PSL Professional Soils Laboratory	**SOMPTING, WEST SUSSEX.**	**Contract No.: PSL14/2716**

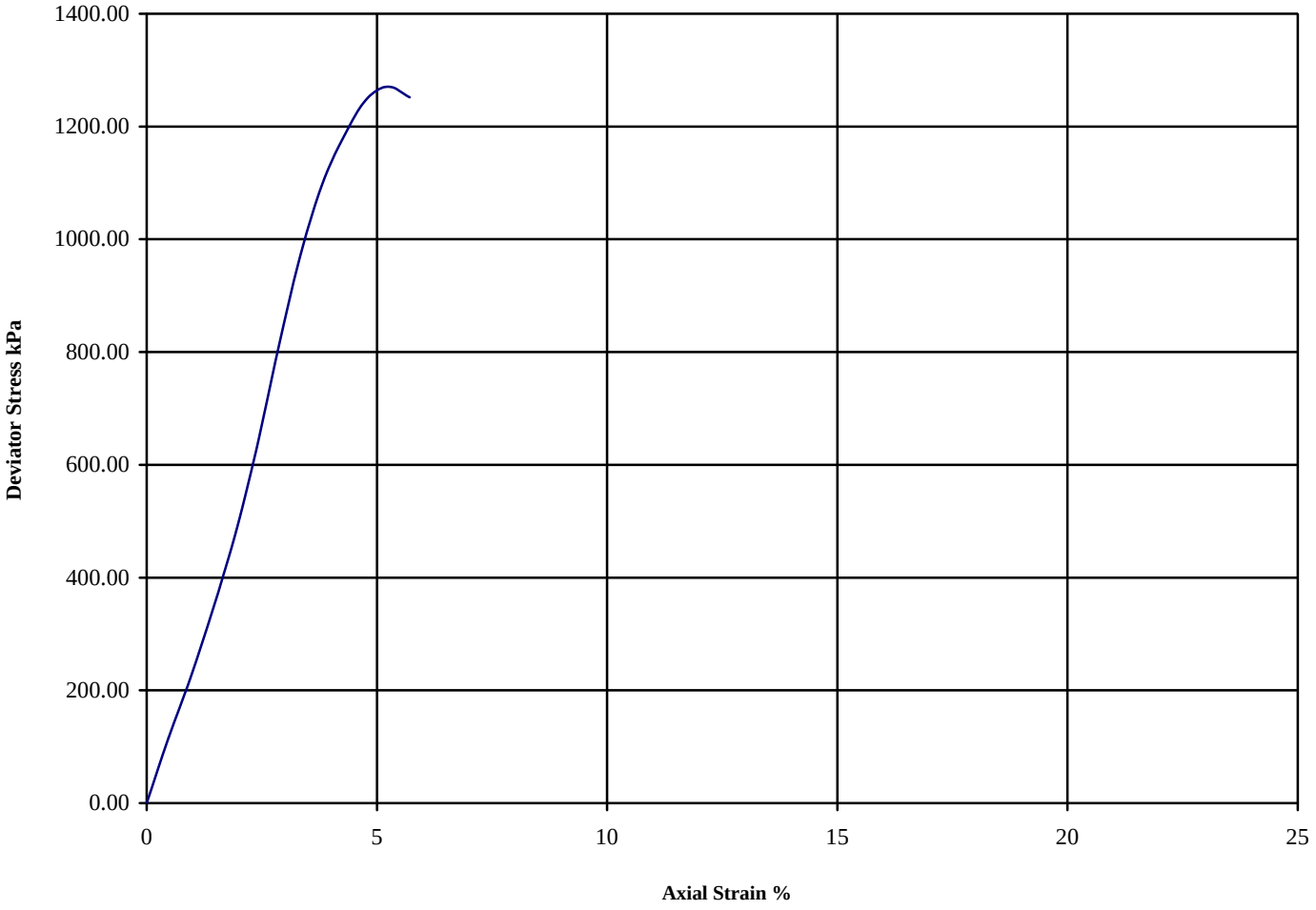
Undrained Shear Strength in Triaxial Compression

without measurement of Pore Pressure

B.S. 1377 : Part7 : Clause 8 : 1990

Hole Number: **BH101** **Depth (m):** **8.00**

Sample Number: **15** **Sample Type:** **U**



Diameter (mm):		102.0	Height (mm):		210.0	Test:	100 mm Single Stage. Undisturbed		
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Remarks
A	19	2.11	1.78	160	1271	635	5.2	Brittle	Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thickness, Correction applied 0.36 kPa See summary of soil descriptions.

Checked	Date	Approved	Date
[redacted]	26/06/14	[redacted]	26/06/14

PSL
Professional Soils Laboratory

SOMPTING, WEST SUSSEX.

Contract No: PSL14/2716

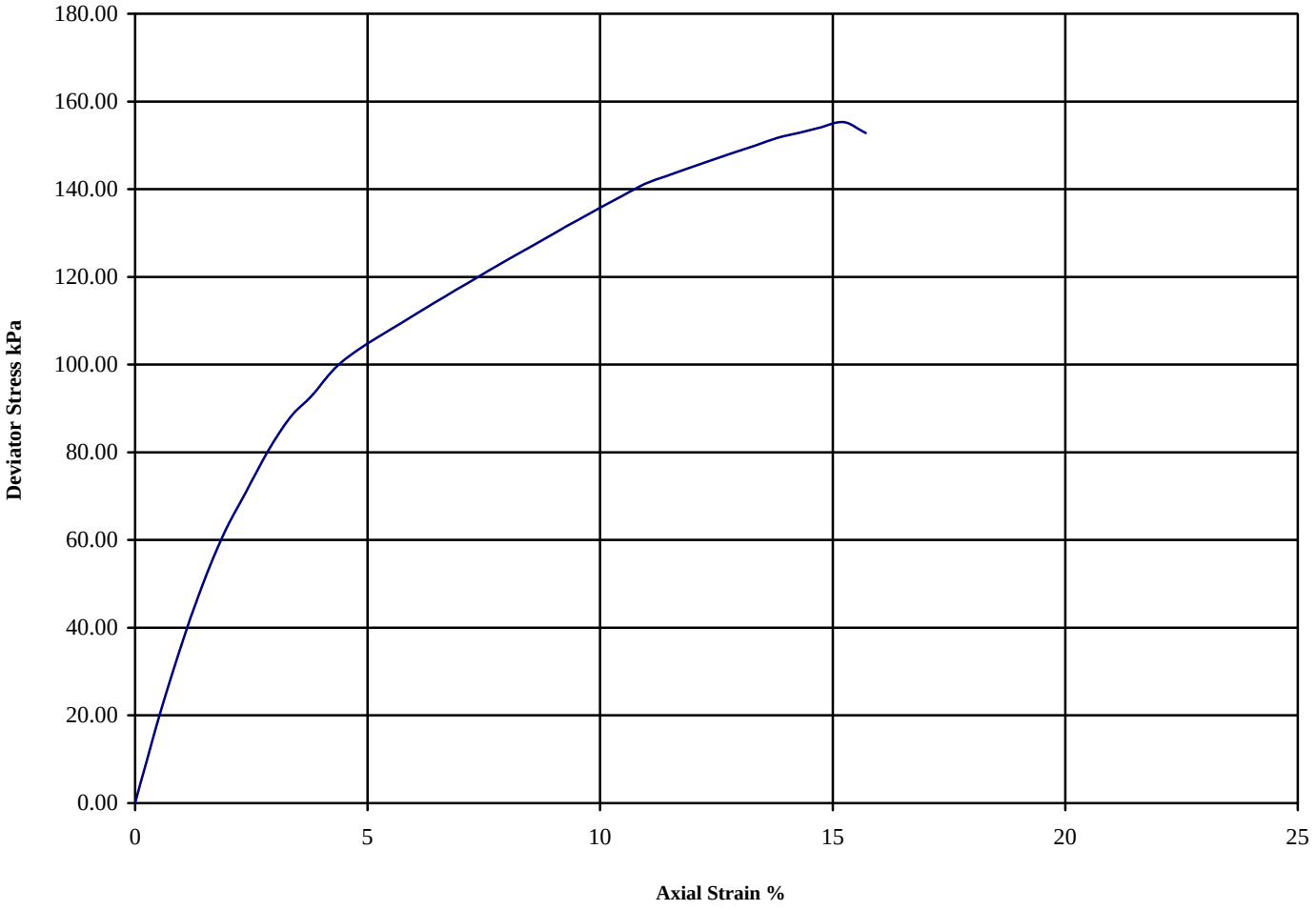
Undrained Shear Strength in Triaxial Compression

without measurement of Pore Pressure

B.S. 1377 : Part7 : Clause 8 : 1990

Hole Number: BH106 **Depth (m):** 2.00

Sample Number: 5 **Sample Type:** U



Diameter (mm):		102.0	Height (mm):		210.0	Test:	100 mm Single Stage. Undisturbed		
Specimen	Moisture Content (%)	Bulk Density (Mg/m3)	Dry Density (Mg/m3)	Cell Pressure (kPa) θ_3	Corr. Max. Deviator Stress (kPa) $(\theta_1-\theta_3)_f$	Shear Strength Cu (kPa) $^1/_2(\theta_1-\theta_3)_f$	Failure Strain (%)	Mode of Failure	Remarks
A	14	1.99	1.76	40	155	78	15.2	Brittle	Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thickness, Correction applied 0.34 kPa See summary of soil descriptions.

Checked	Date	Approved	Date
[redacted]	6/06/14	[redacted]	26/06/14

PSL Professional Soils Laboratory

SOMPTING, WEST SUSSEX.

Contract No: PSL14/2716

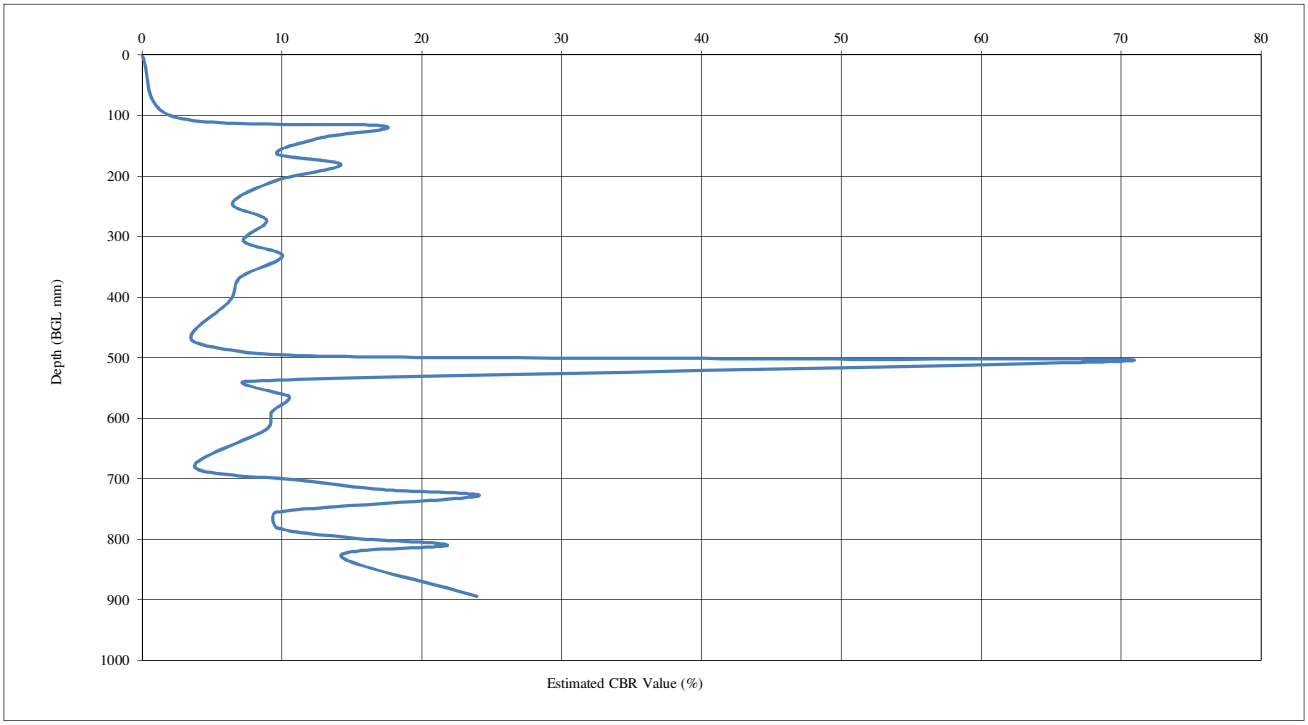
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	12/02/2014
Site Ref	20612	**Test Location:**	CBR101
Test No.:	1	**Easting:**	516471.0814
Initial Depth (mm BGL):	103	**Northing:**	105407
Final Depth (mm BGL):	894		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	11	11	36.36	6.77
400	600	19	8	25.00	10.05
600	800	27	8	25.00	10.05
800	900	36	9	11.11	23.69

Average estimated CBR value of 10% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	12/02/2014
Site Ref	20612	**Test Location:**	CBR102
Test No.:	1	**Easting:**	516597
Initial Depth (mm BGL):	92	**Northing:**	105417
Final Depth (mm BGL):	895		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	9	9	44.44	5.47
400	600	14	5	40.00	6.12
600	800	19	5	40.00	6.12
800	900	28	9	11.11	23.69

Average estimated CBR value of 6% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	14/06/2014	A. King	14/06/2014

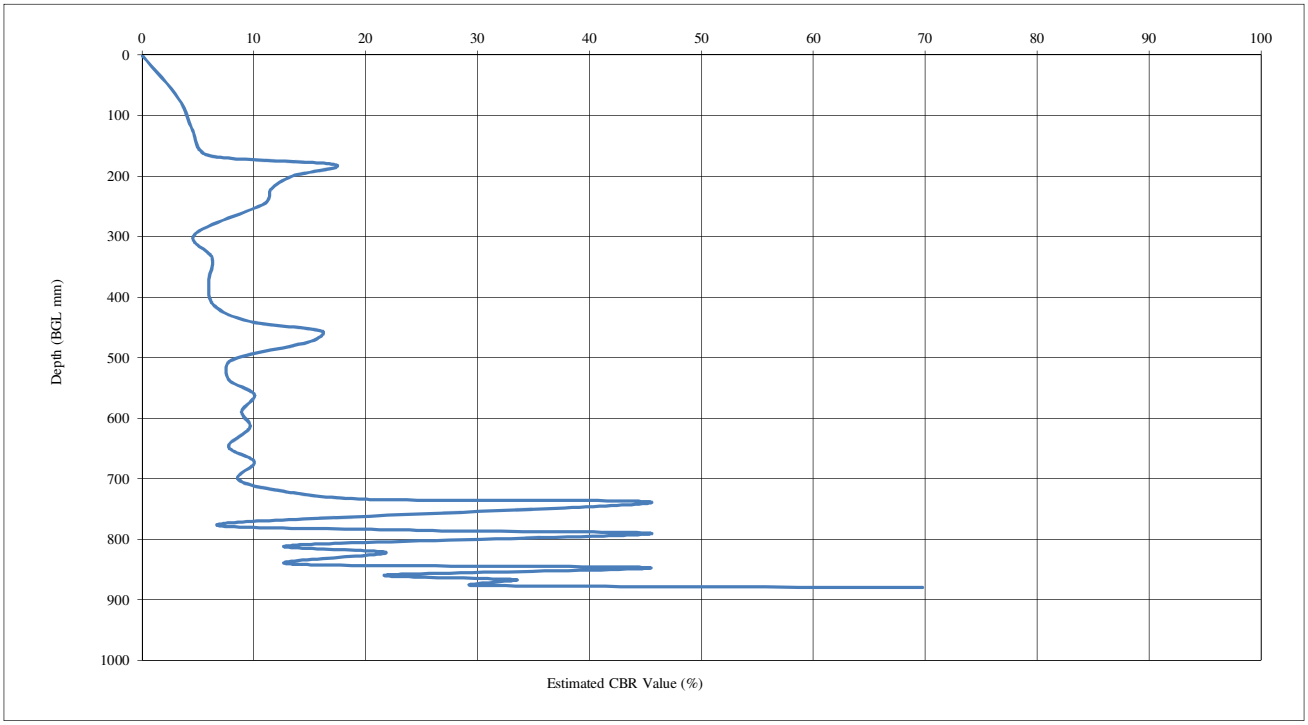
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	12/02/2014
Site Ref	20612	**Test Location:**	CBR103
Test No.:	1	**Easting:**	516602
Initial Depth (mm BGL):	100	**Northing:**	105311
Final Depth (mm BGL):	886		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	10	10	40.00	6.12
400	600	18	8	25.00	10.05
600	800	28	10	20.00	12.73
800	900	45	17	5.88	46.41

Average estimated CBR value of 10% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

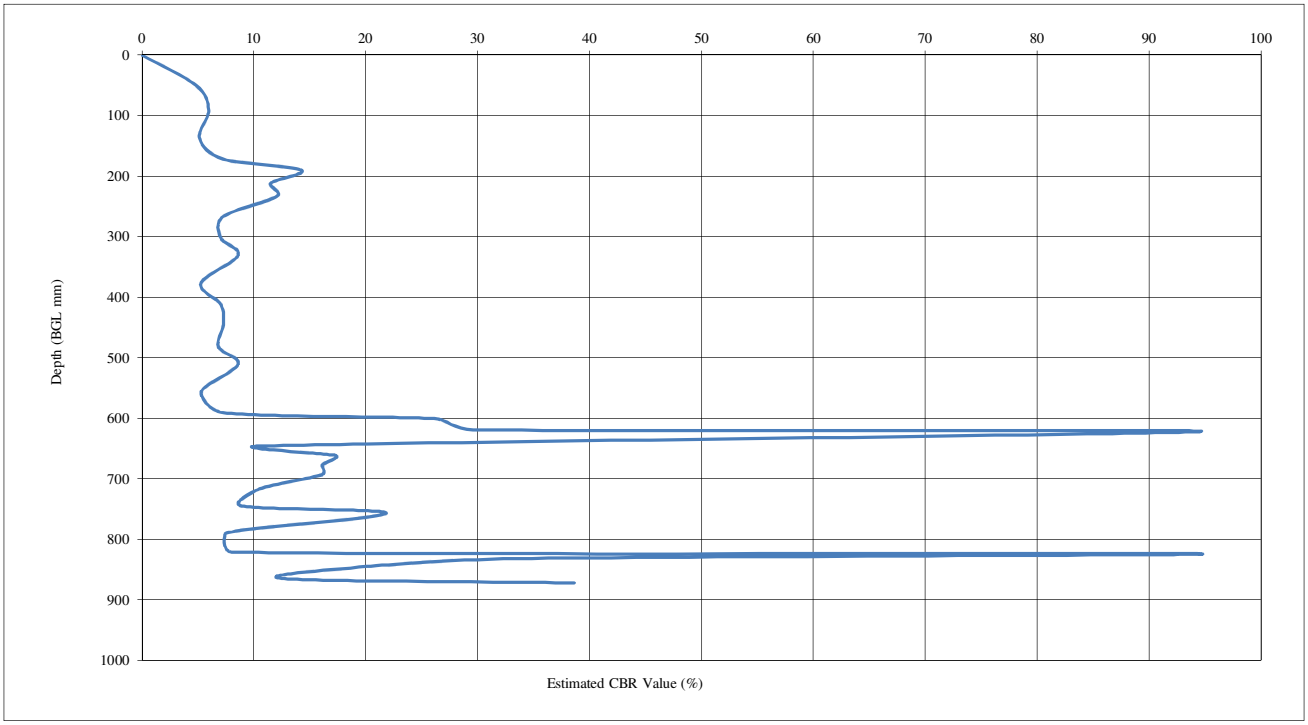
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	12/02/2014
Site Ref	20612	**Test Location:**	CBR104
Test No.:	1	**Easting:**	516712
Initial Depth (mm BGL):	113	**Northing:**	105319
Final Depth (mm BGL):	880		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	11	11	36.36	6.77
400	600	17	6	33.33	7.42
600	800	29	12	16.67	15.43
800	900	43	14	7.14	37.80

Average estimated CBR value of 7% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

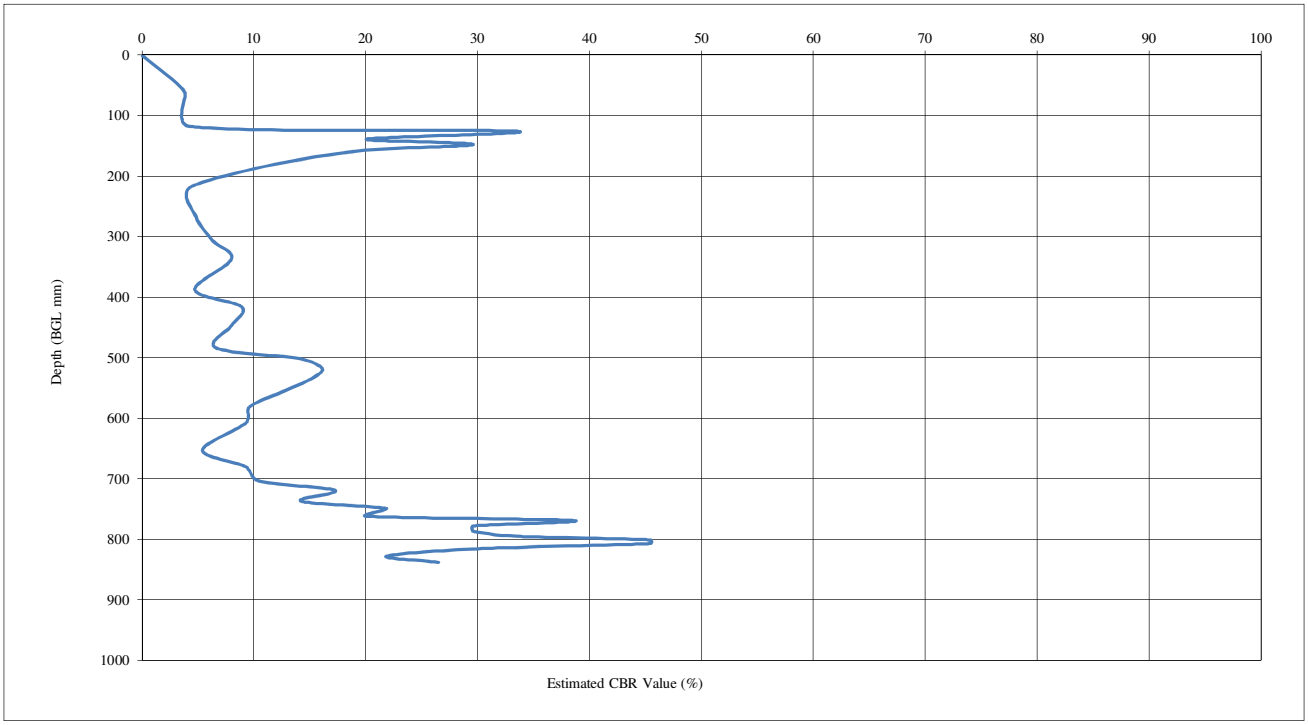
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	12/02/2014
Site Ref	20612	**Test Location:**	CBR105
Test No.:	1	**Easting:**	516710
Initial Depth (mm BGL):	144	**Northing:**	105402
Final Depth (mm BGL):	850		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	11	11	36.36	6.77
400	600	19	8	25.00	10.05
600	800	31	12	16.67	15.43
800	900	44	13	7.69	34.95

Average estimated CBR value of 11% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

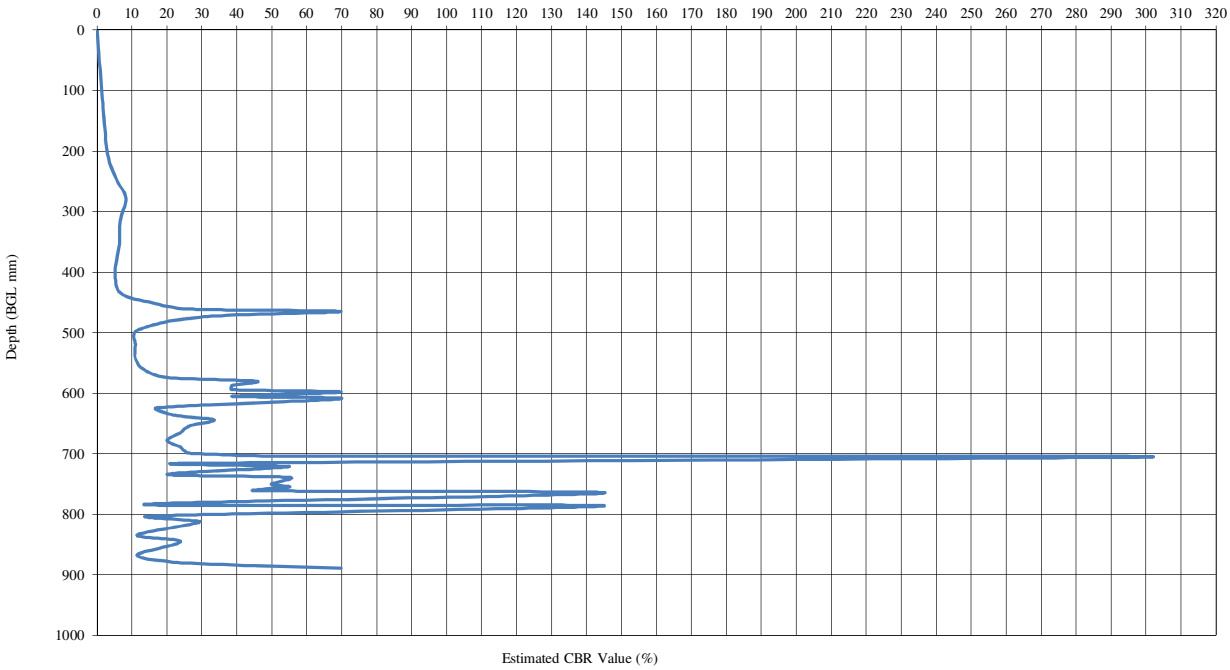
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	12/02/2014
Site Ref	20612	**Test Location:**	CBR106
Test No.:	1	**Easting:**	516360
Initial Depth (mm BGL):	86	**Northing:**	105114
Final Depth (mm BGL):	895		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	7	11	36.36	6.77
400	600	21	14	14.29	18.17
600	800	45	24	8.33	32.11
800	900	62	17	5.88	46.41

Average estimated CBR value of 18% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

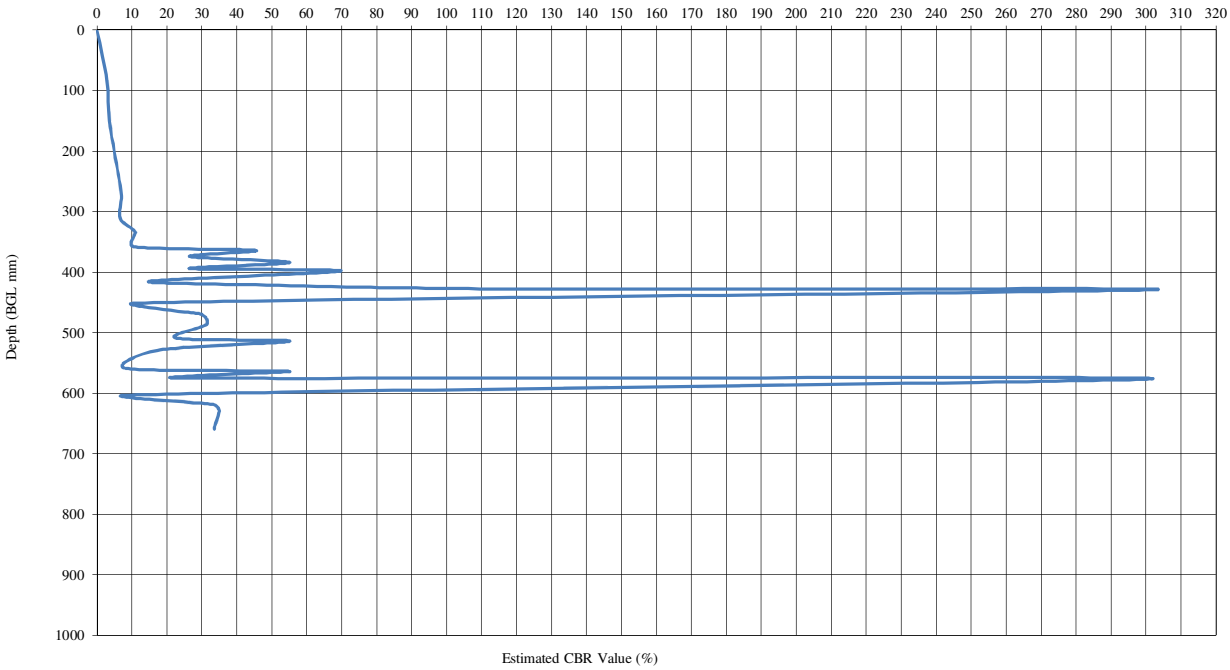
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	12/02/2014
Site Ref	20612	**Test Location:**	CBR107
Test No.:	1	**Easting:**	516471
Initial Depth (mm BGL):	336	**Northing:**	105407
Final Depth (mm BGL):	659		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	14	14	28.57	8.73
400	600	33	19	10.53	25.09
600	700	41	8	12.50	20.92

Average estimated CBR value of 25% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

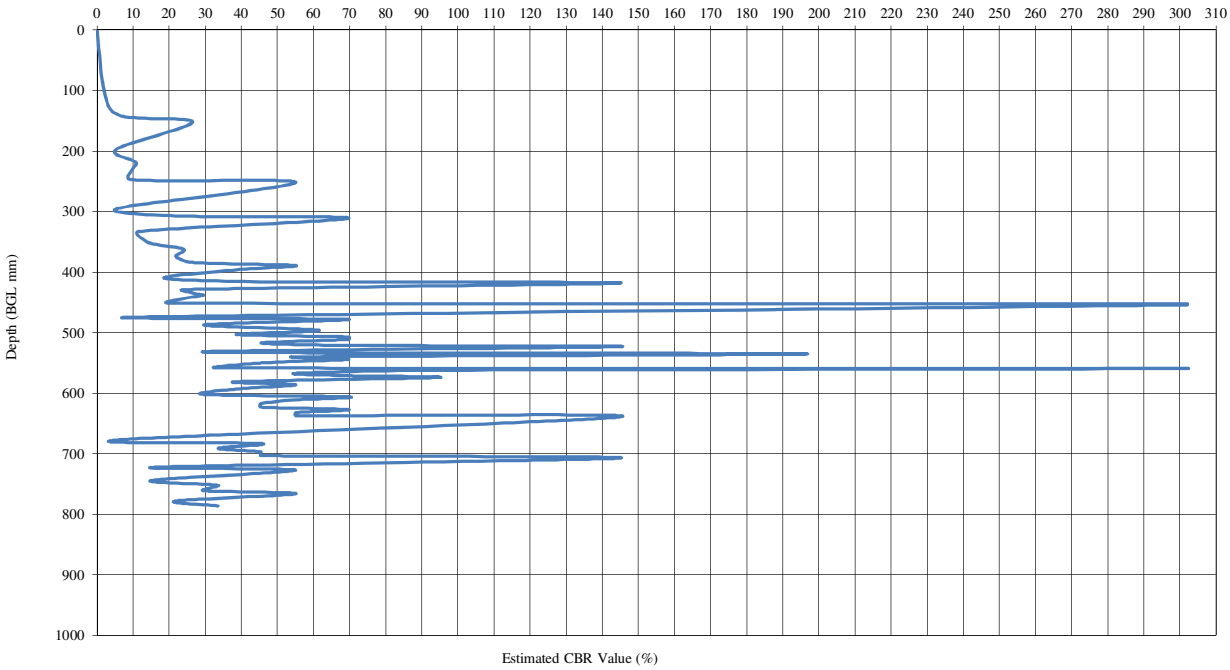
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	12/02/2014
Site Ref	20612	**Test Location:**	CBR108
Test No.:	1	**Easting:**	516426
Initial Depth (mm BGL):	198	**Northing:**	105016
Final Depth (mm BGL):	788		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	17	17	23.53	10.72
400	600	52	35	5.71	47.85
600	800	81	29	6.90	39.23

Average estimated CBR value of 47% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

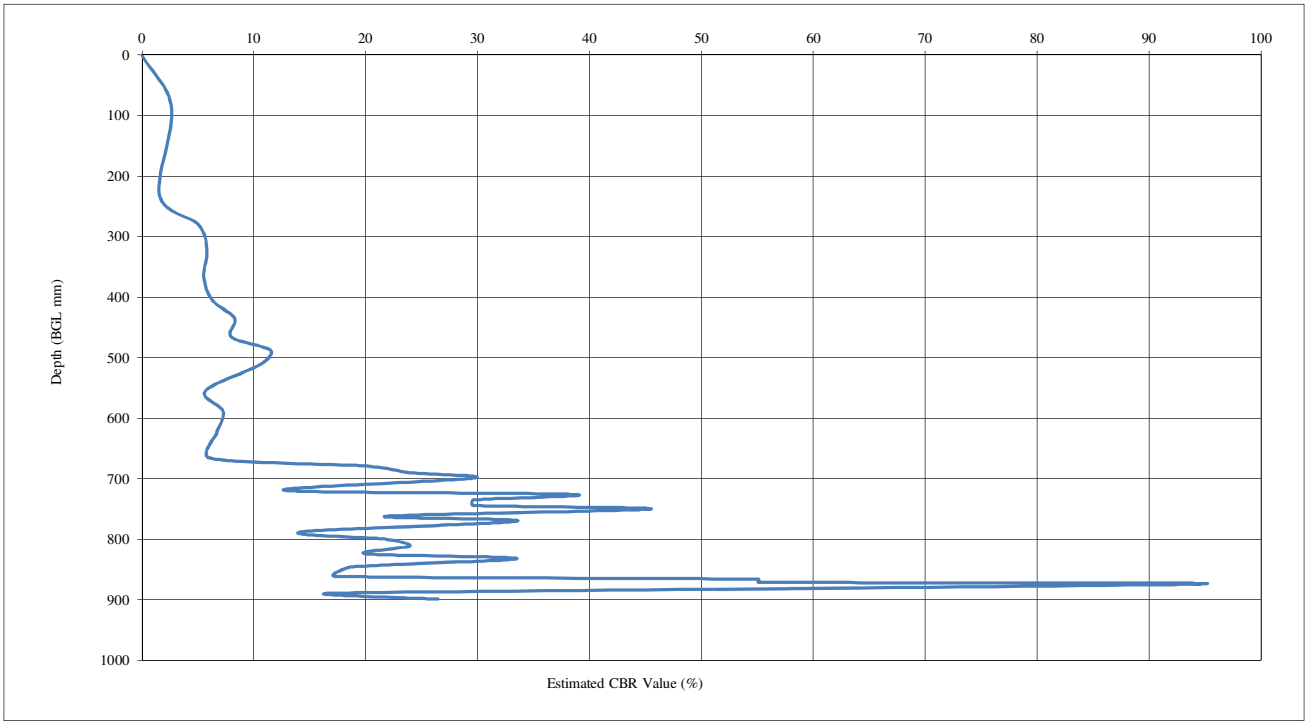
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	12/02/2014
Site Ref	20612	**Test Location:**	CBR109
Test No.:	1	**Easting:**	516444
Initial Depth (mm BGL):	90	**Northing:**	104979
Final Depth (mm BGL):	904		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	5	5	80.00	2.94
400	600	12	7	28.57	8.73
600	800	26	14	14.29	18.17
800	900	36	10	10.00	26.49
900	1000	41	5	20.00	12.73

Average estimated CBR value of 8% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

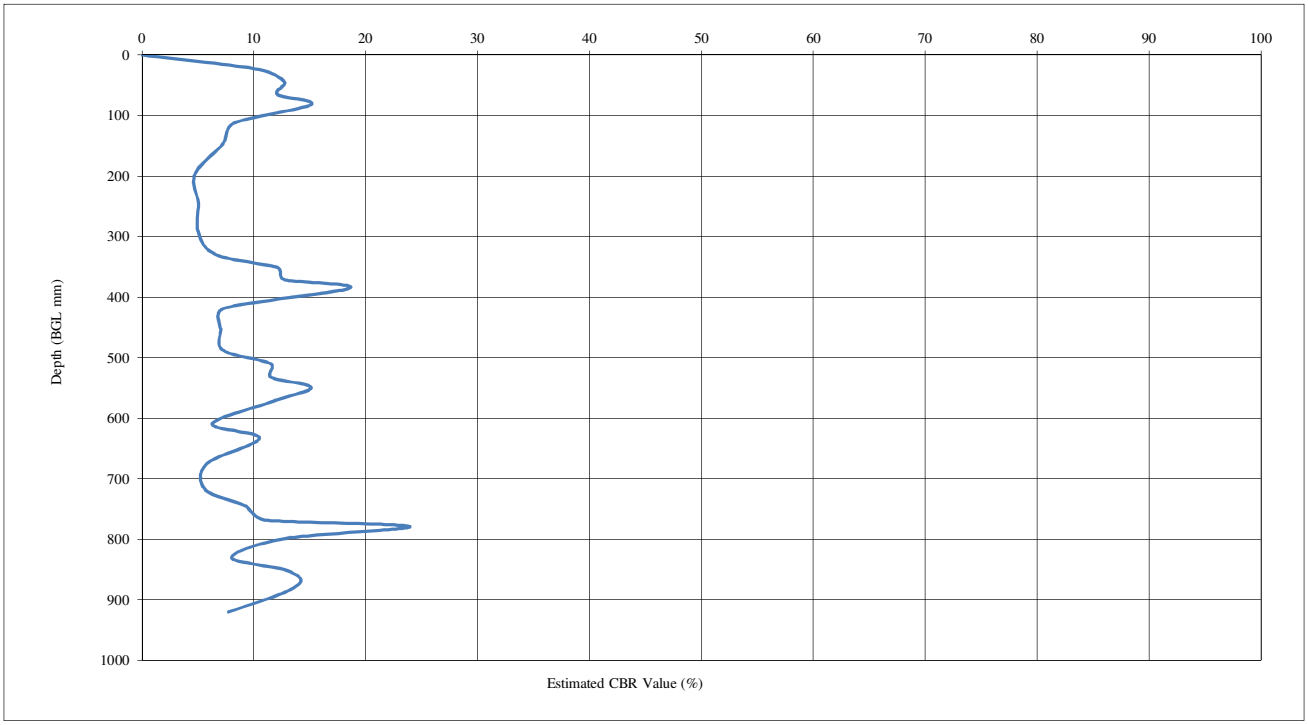
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	12/02/2014
Site Ref	20612	**Test Location:**	CBR110
Test No.:	1	**Easting:**	516385
Initial Depth (mm BGL):	60	**Northing:**	104913
Final Depth (mm BGL):	927		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	13	13	30.77	8.07
400	600	20	7	28.57	8.73
600	800	28	8	25.00	10.05
800	900	32	4	25.00	10.05
900	1000	38	6	16.67	15.43

Average estimated CBR value of 8% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

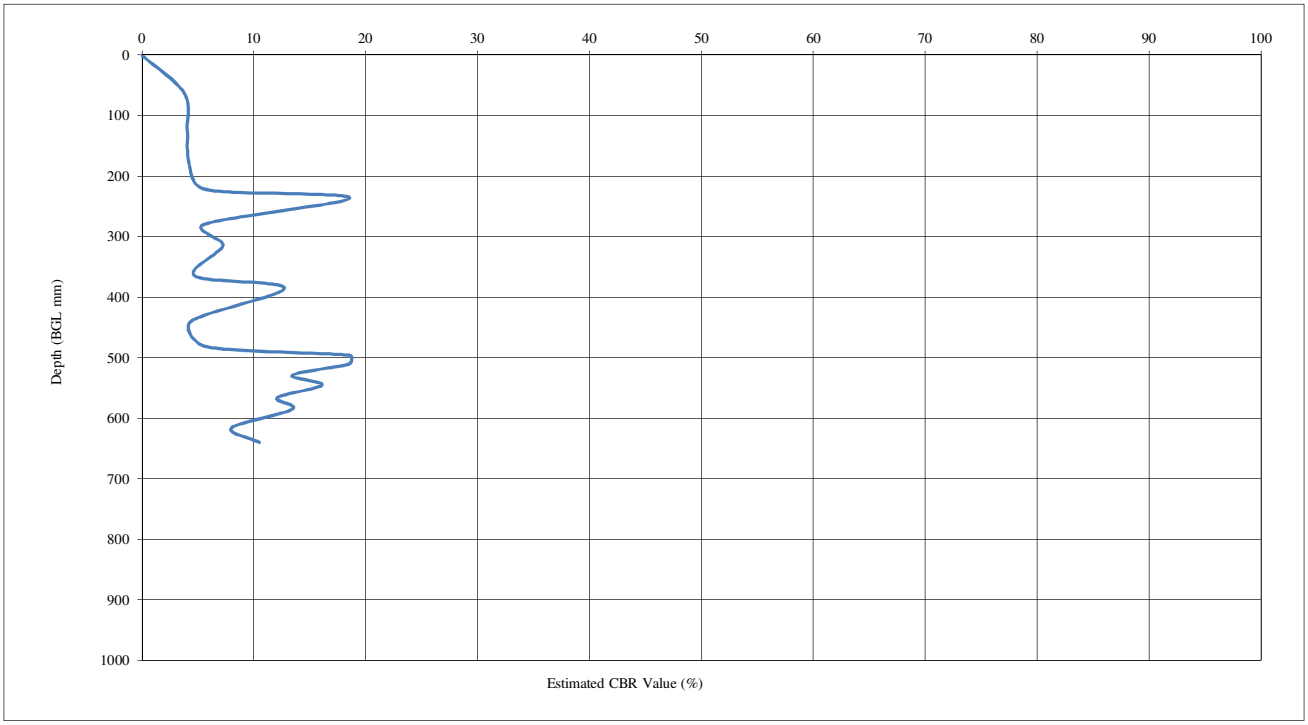
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	12/02/2014
Site Ref	20612	**Test Location:**	CBR111
Test No.:	1	**Easting:**	516399
Initial Depth (mm BGL):	316	**Northing:**	104814
Final Depth (mm BGL):	650		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	9	9	44.44	5.47
400	600	17	8	25.00	10.05
600	800	24	7	28.57	8.73

Average estimated CBR value of 10% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

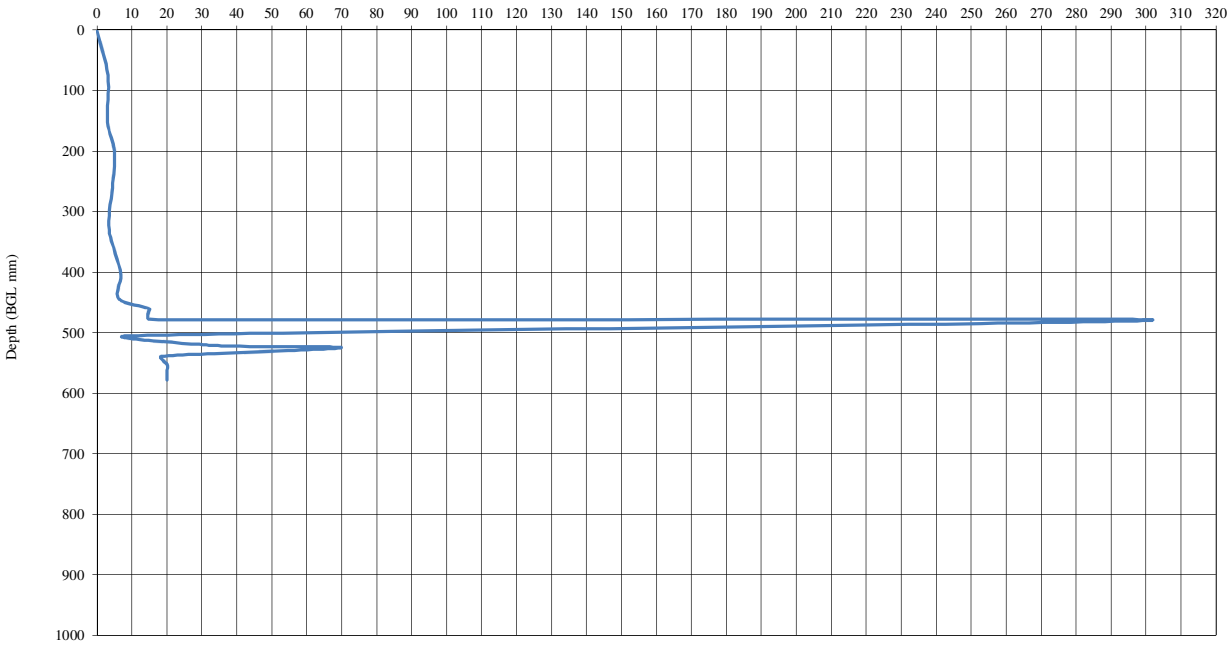
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	12/02/2014
Site Ref	20612	**Test Location:**	CBR112
Test No.:	1	**Easting:**	516357
Initial Depth (mm BGL):	367	**Northing:**	104767
Final Depth (mm BGL):	588		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	6	6	66.67	3.57
400	600	24	18	11.11	23.69

Average estimated CBR value of 23% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

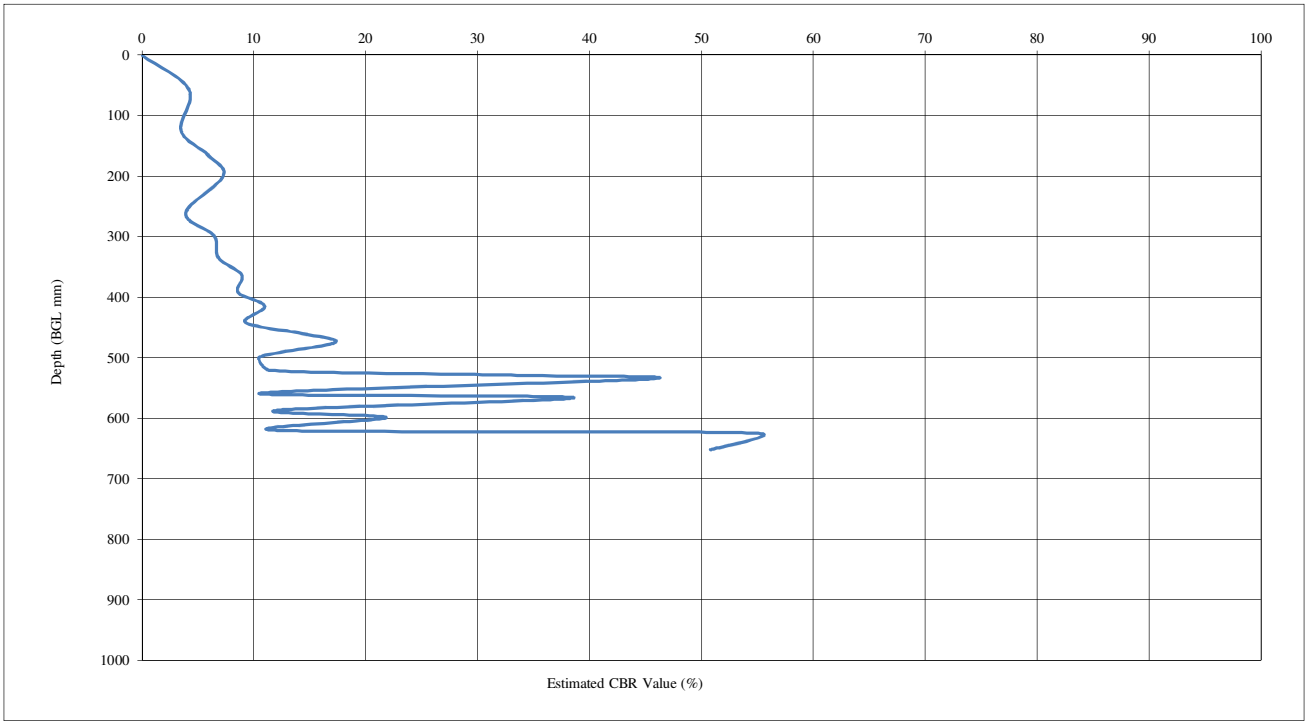
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	12/02/2014
Site Ref	20612	**Test Location:**	CBR113
Test No.:	1	**Easting:**	516314
Initial Depth (mm BGL):	335	**Northing:**	104636
Final Depth (mm BGL):	652		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	9	9	44.44	5.47
400	600	21	12	16.67	15.43
600	800	28	7	28.57	8.73

Average estimated CBR value of 15% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

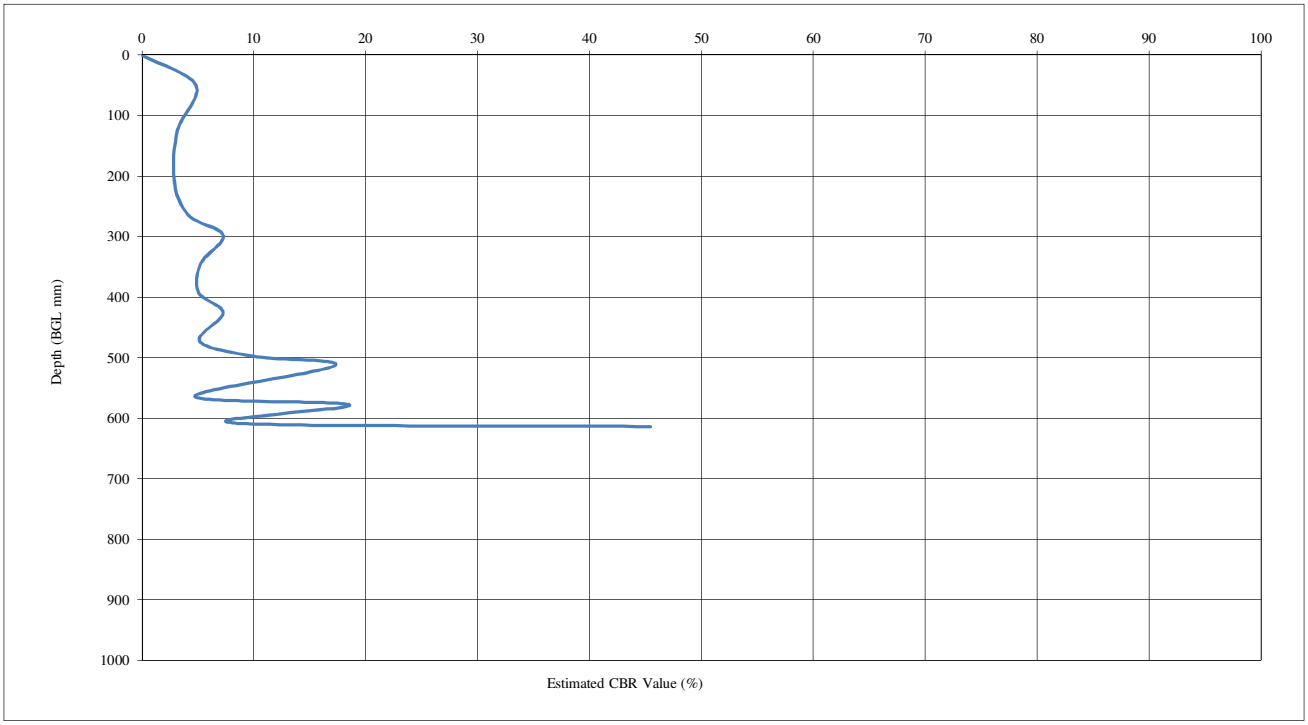
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	12/02/2014
Site Ref	20612	**Test Location:**	CBR114
Test No.:	1	**Easting:**	516404
Initial Depth (mm BGL):	372	**Northing:**	104708
Final Depth (mm BGL):	616		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	7	7	57.14	4.20
400	600	13	6	33.33	7.42
600	800	20	7	28.57	8.73

Average estimated CBR value of 7% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

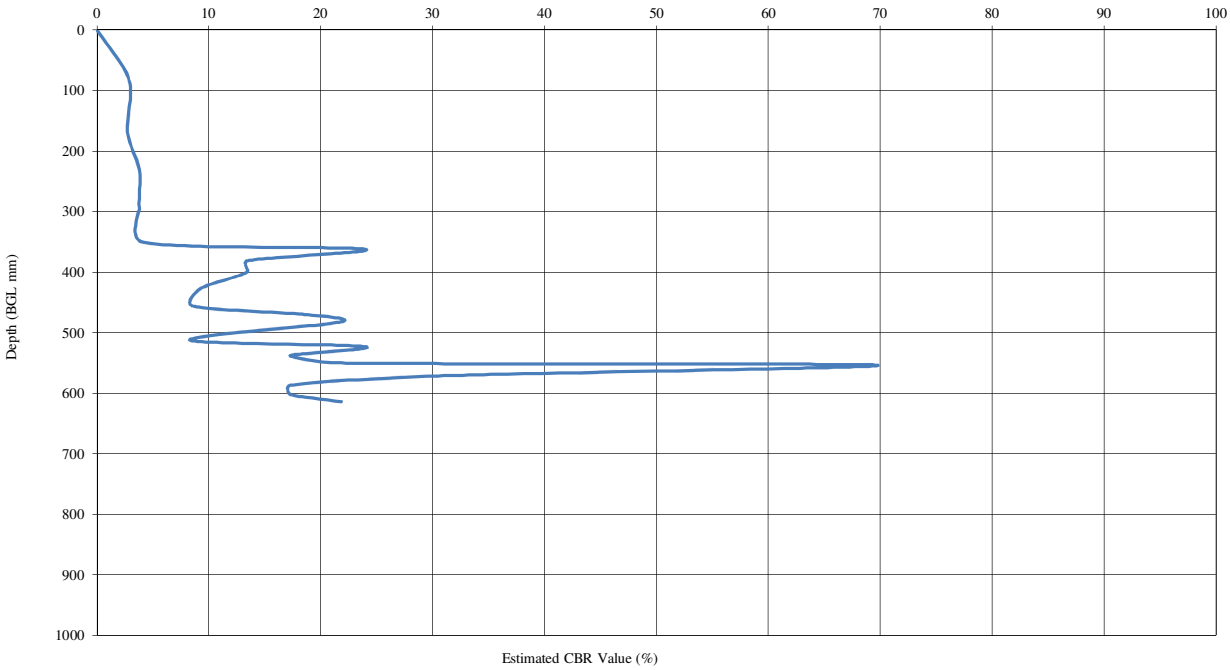
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	12/02/2014
Site Ref	20612	**Test Location:**	CBR115
Test No.:	1	**Easting:**	516451
Initial Depth (mm BGL):	368	**Northing:**	104736
Final Depth (mm BGL):	620		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	8	8	50.00	4.83
400	600	20	12	16.67	15.43
600	800	28	8	25.00	10.05

Average estimated CBR value of 15% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

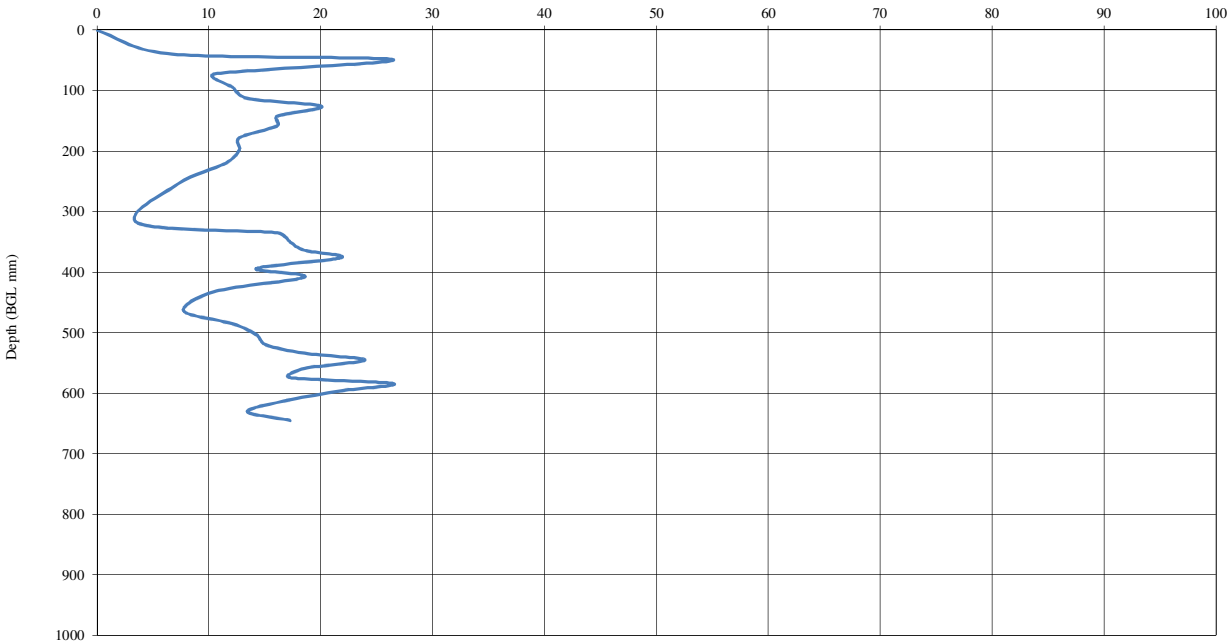
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	13/02/2014
Site Ref	20612	**Test Location:**	CBR116
Test No.:	1	**Easting:**	516430
Initial Depth (mm BGL):	335	**Northing:**	104643
Final Depth (mm BGL):	647		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	18	18	22.22	11.39
400	600	30	12	16.67	15.43
600	800	38	8	25.00	10.05

Average estimated CBR value of 15% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

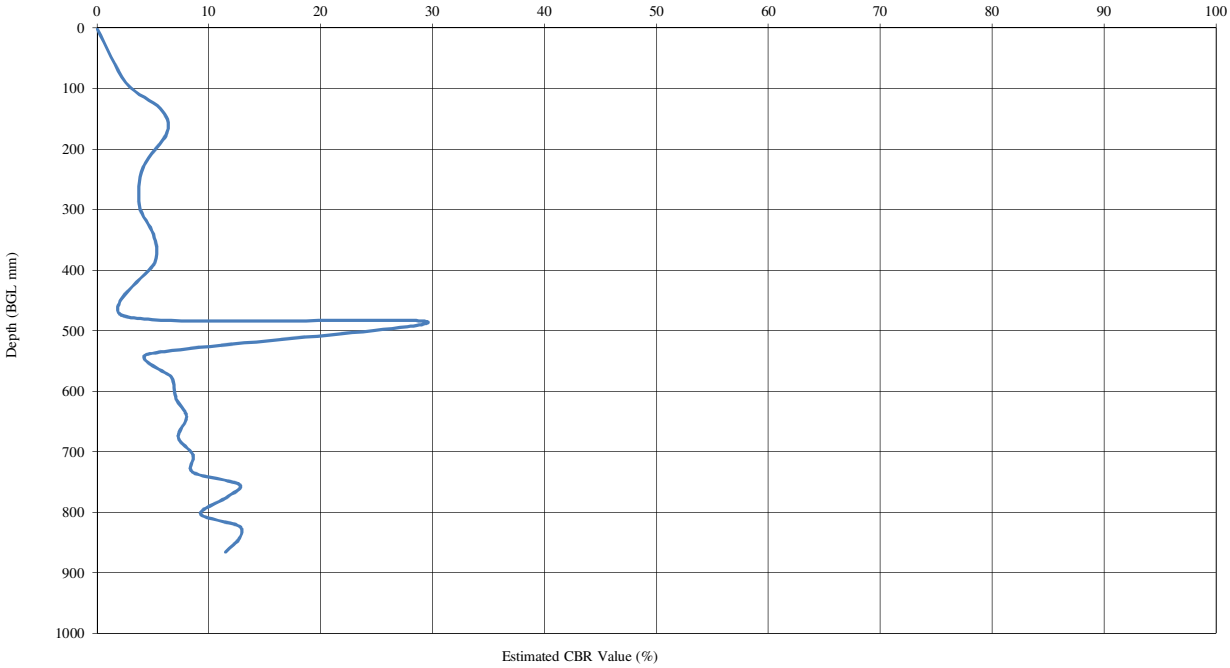
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	13/02/2014
Site Ref	20612	**Test Location:**	CBR117
Test No.:	1	**Easting:**	516518
Initial Depth (mm BGL):	100	**Northing:**	104715
Final Depth (mm BGL):	880		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	7	7	57.14	4.20
400	600	11	4	50.00	4.83
600	800	18	7	28.57	8.73
800	900	27	9	11.11	23.69

Average estimated CBR value of 4% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

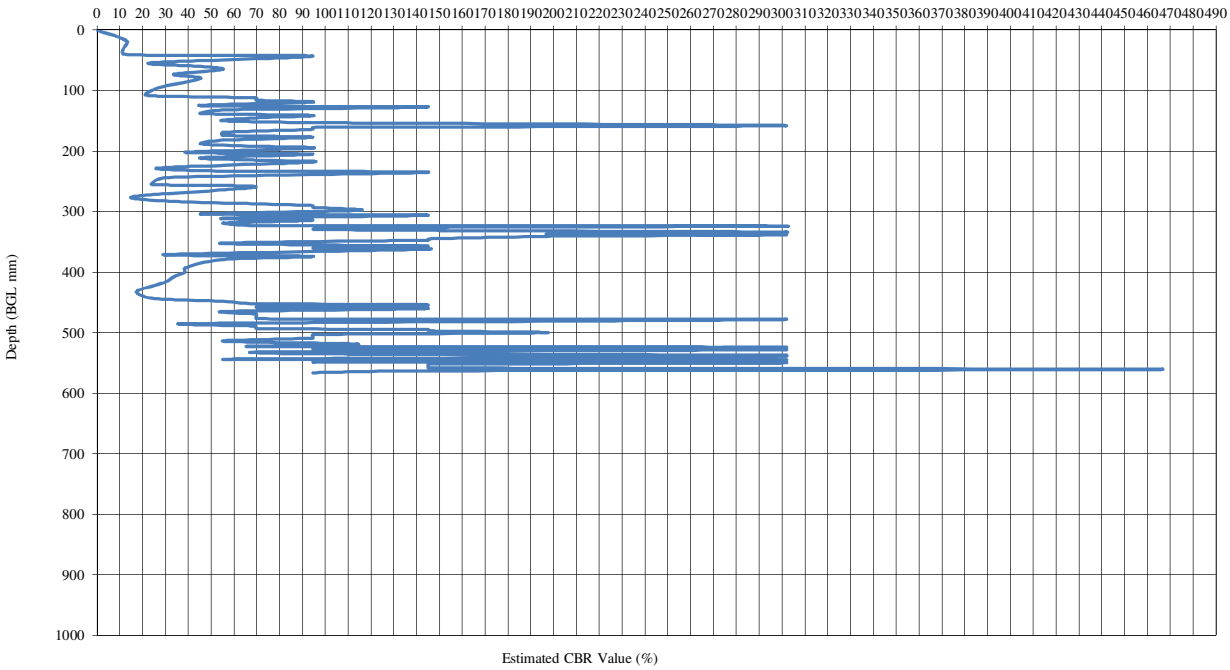
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	13/02/2014
Site Ref	20612	**Test Location:**	CBR118
Test No.:	1	**Easting:**	516493
Initial Depth (mm BGL):	71	**Northing:**	104630
Final Depth (mm BGL):	909		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	86	86	4.65	59.48
400	600	143	57	3.51	80.13
600	800	152	9	22.22	11.39
800	900	157	5	20.00	12.73
900	1000	163	6	16.67	15.43

Average estimated CBR value of 80% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

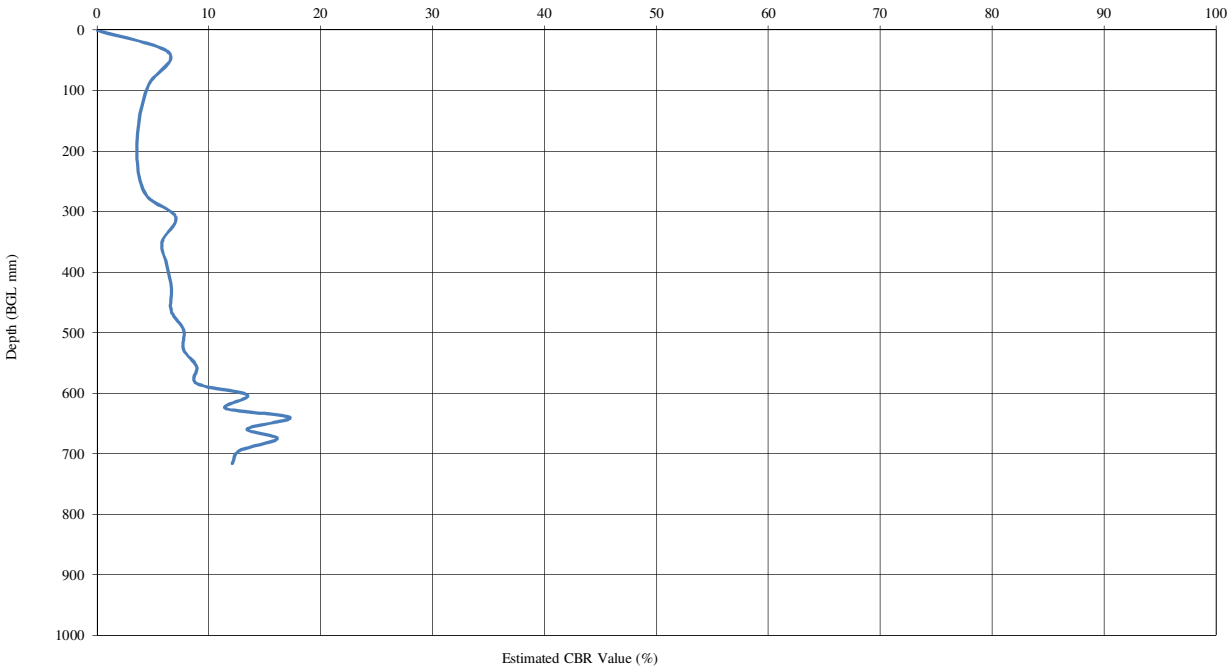
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	13/02/2014
Site Ref	20612	**Test Location:**	CBR119
Test No.:	1	**Easting:**	516476
Initial Depth (mm BGL):	249	**Northing:**	104568
Final Depth (mm BGL):	735		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	8	8	50.00	4.83
400	600	14	6	33.33	7.42
600	800	26	12	16.67	15.43

Average estimated CBR value of 7% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

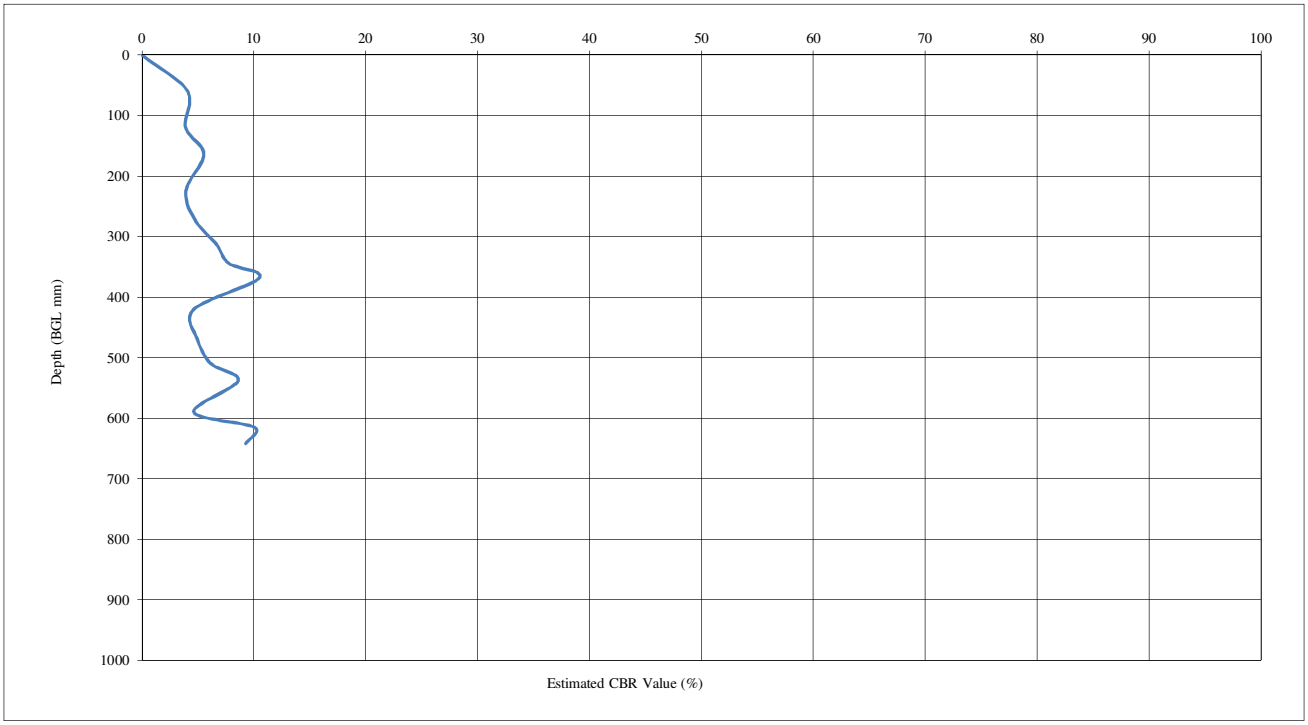
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	13/02/2014
Site Ref	20612	**Test Location:**	CBR120
Test No.:	1	**Easting:**	516569
Initial Depth (mm BGL):	310	**Northing:**	104688
Final Depth (mm BGL):	671		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	8	8	50.00	4.83
400	600	13	5	40.00	6.12
600	800	20	7	28.57	8.73

Average estimated CBR value of 6% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

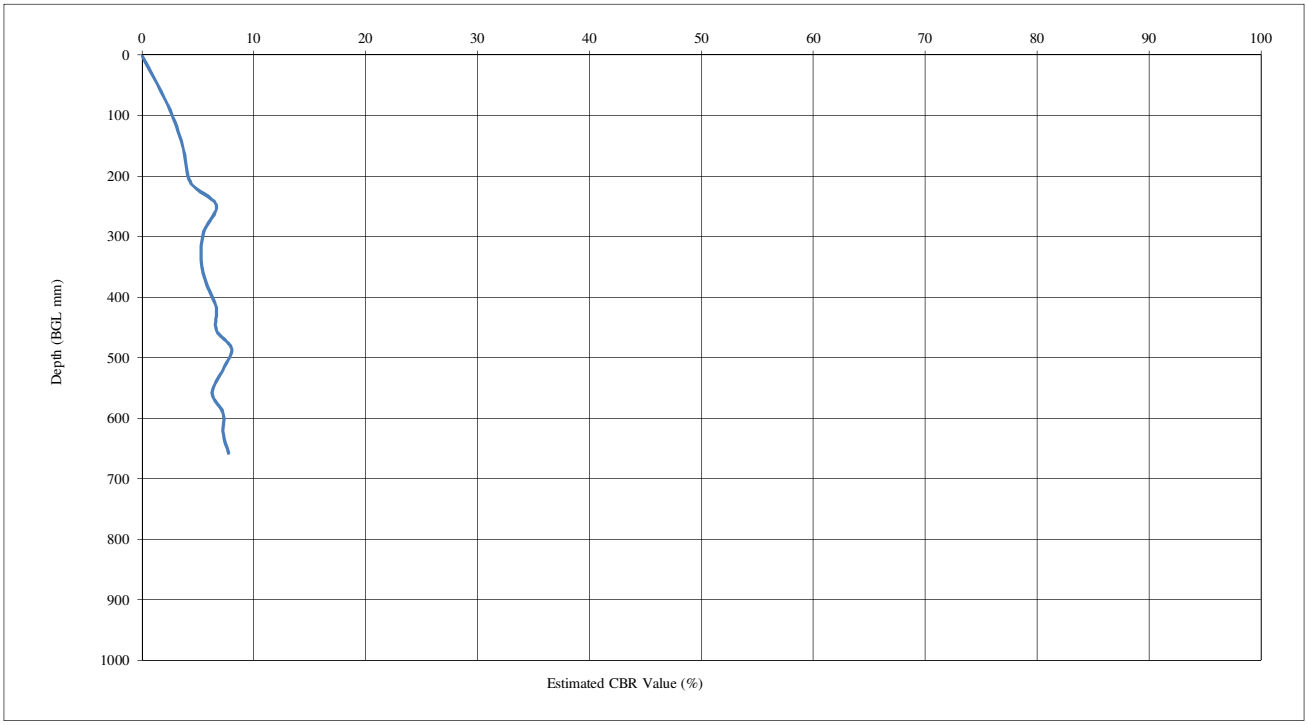
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	13/02/2014
Site Ref	20612	**Test Location:**	CBR121
Test No.:	1	**Easting:**	516531
Initial Depth (mm BGL):	286	**Northing:**	104594
Final Depth (mm BGL):	694		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	7	7	57.14	4.20
400	600	13	6	33.33	7.42
600	800	20	7	28.57	8.73

Average estimated CBR value of 7% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

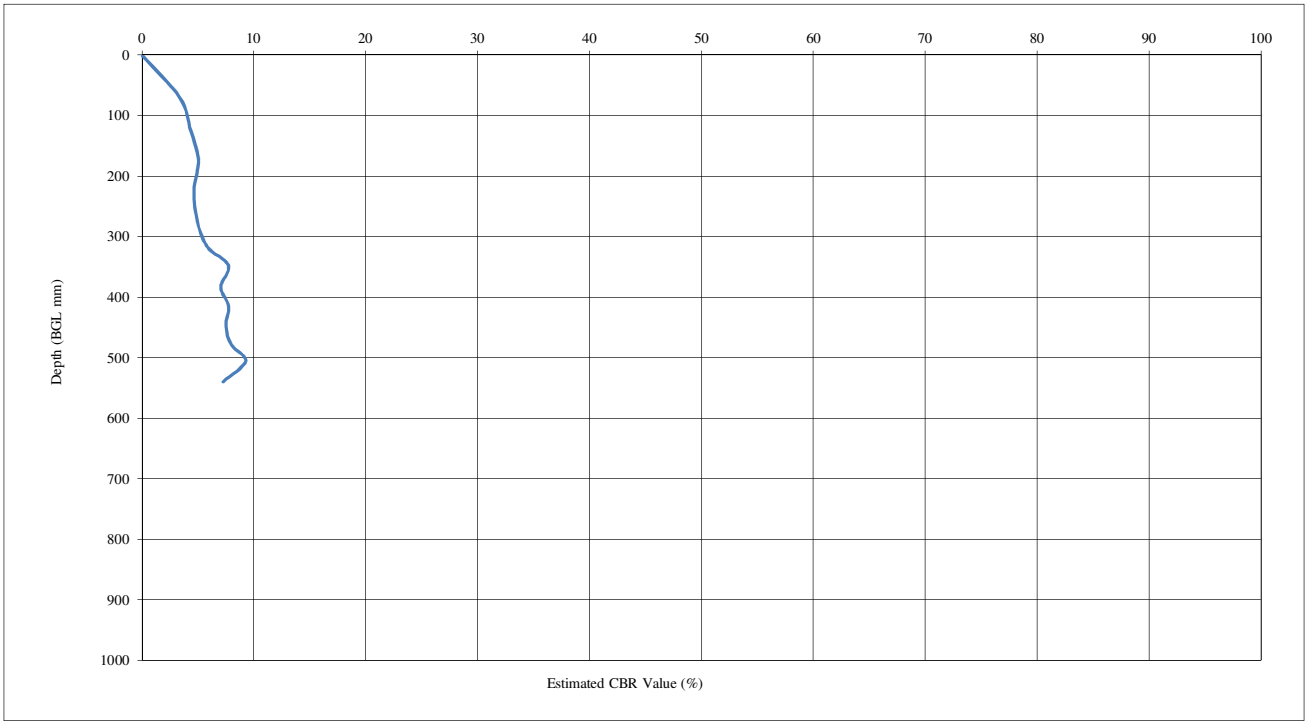
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	13/02/2014
Site Ref	20612	**Test Location:**	CBR122
Test No.:	1	**Easting:**	516618
Initial Depth (mm BGL):	416	**Northing:**	104680
Final Depth (mm BGL):	564		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	8	8	50.00	4.83
400	600	18	10	20.00	12.73

Average estimated CBR value of 12% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

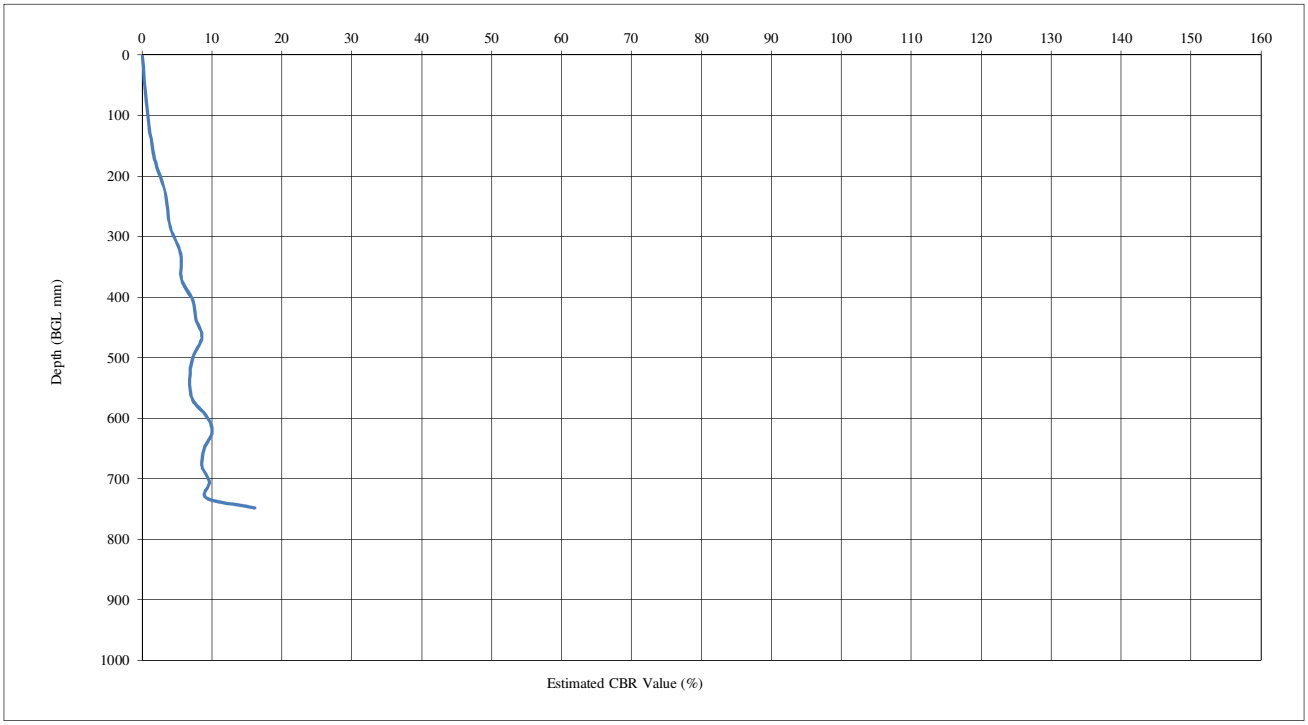
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	13/02/2014
Site Ref	20612	**Test Location:**	CBR123
Test No.:	1	**Easting:**	516587
Initial Depth (mm BGL):	210	**Northing:**	104623
Final Depth (mm BGL):	771		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	5	5	80.00	2.94
400	600	12	7	28.57	8.73
600	800	23	11	18.18	14.08

Average estimated CBR value of 8% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

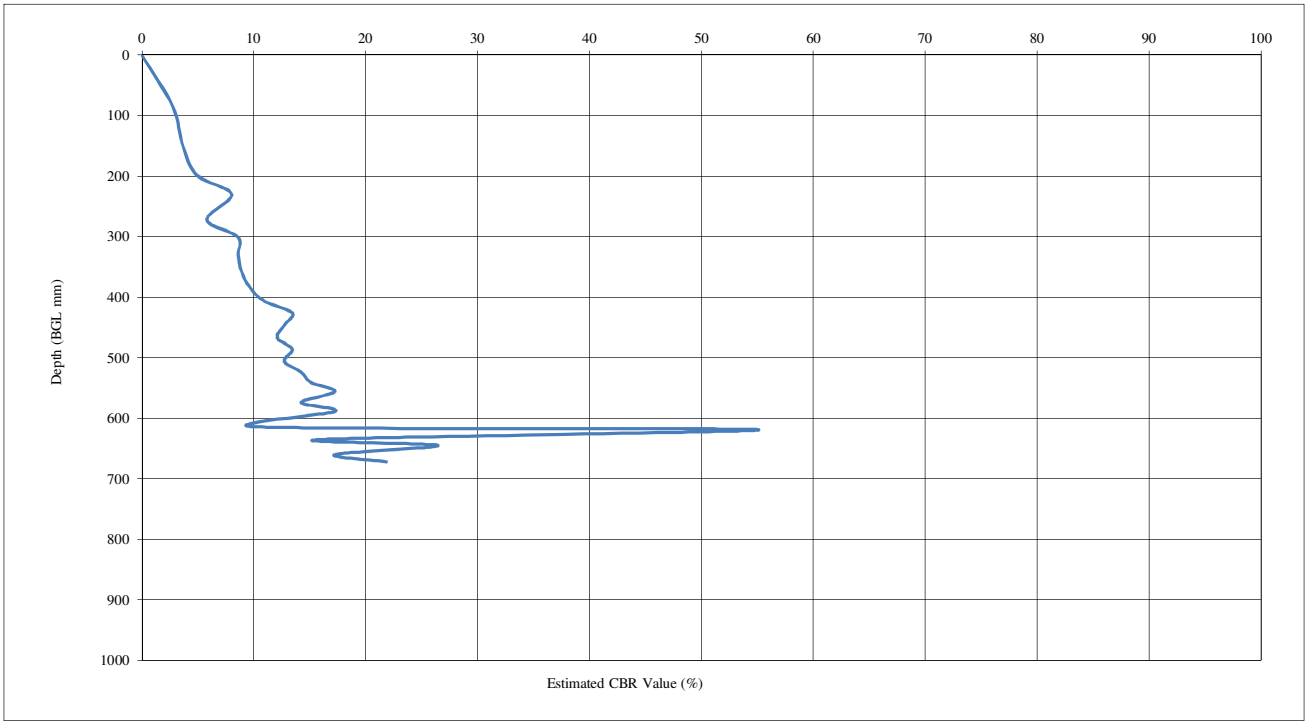
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	13/02/2014
Site Ref	20612	**Test Location:**	CBR124
Test No.:	1	**Easting:**	516574
Initial Depth (mm BGL):	295	**Northing:**	104568
Final Depth (mm BGL):	686		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	9	9	44.44	5.47
400	600	20	11	18.18	14.08
600	800	31	11	18.18	14.08

Average estimated CBR value of 14% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

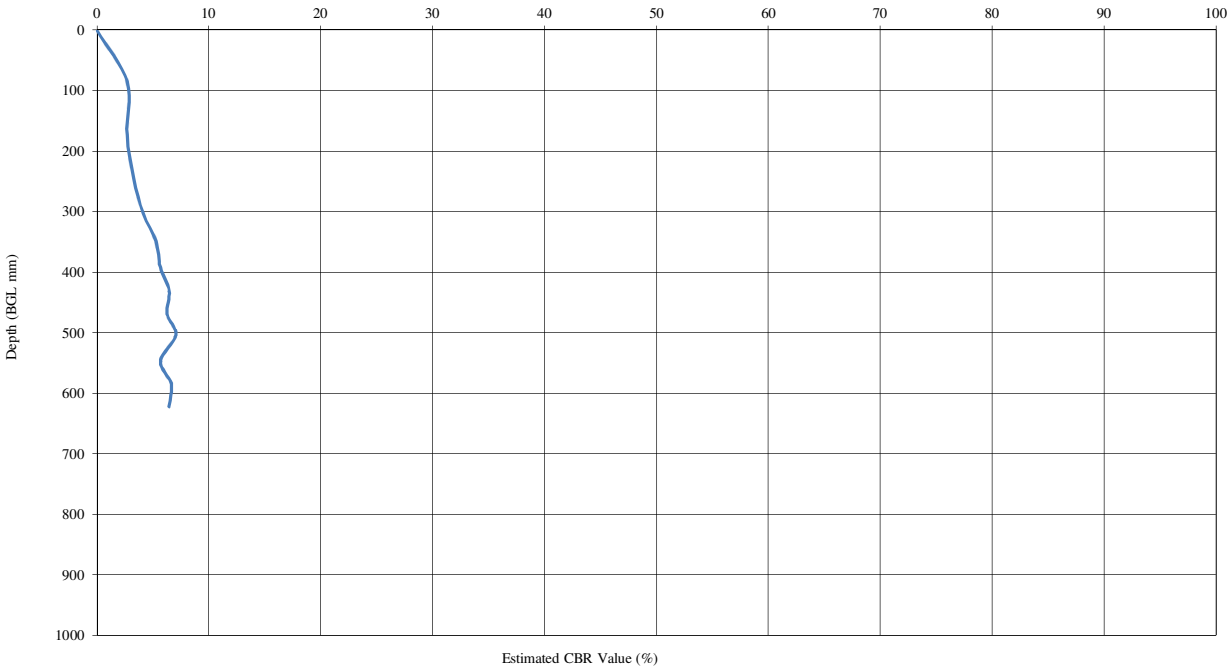
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	13/02/2014
Site Ref	20612	**Test Location:**	CBR125
Test No.:	1	**Easting:**	516536
Initial Depth (mm BGL):	318	**Northing:**	104508
Final Depth (mm BGL):	662		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	6	6	66.67	3.57
400	600	11	5	40.00	6.12
600	800	17	6	33.33	7.42

Average estimated CBR value of 6% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

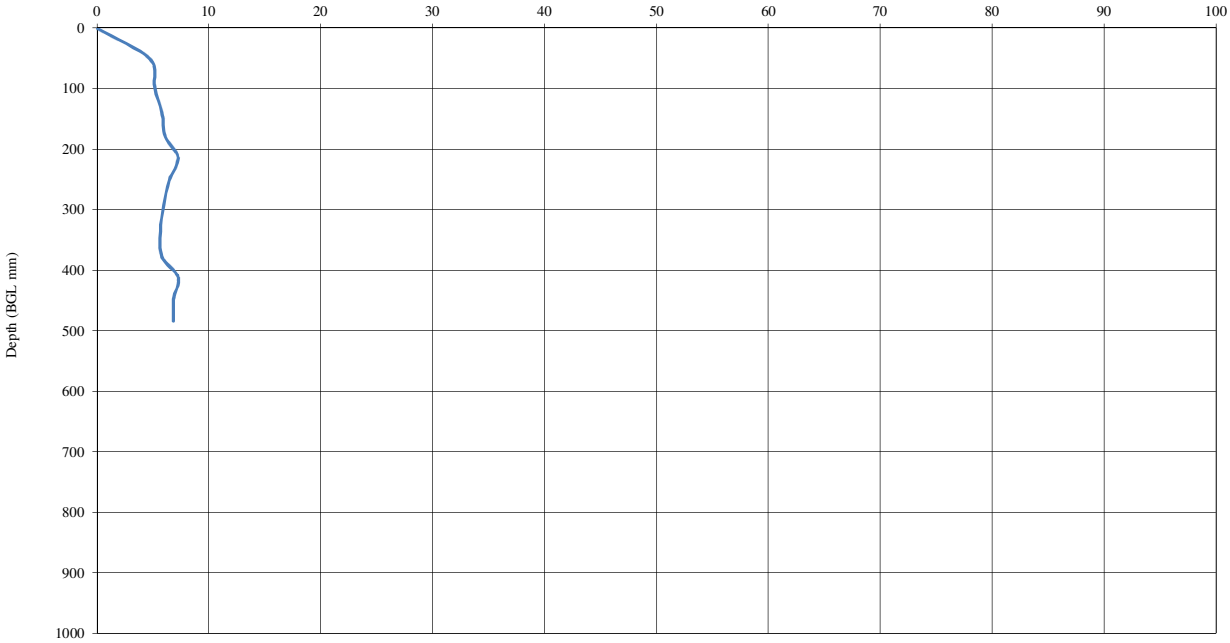
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	13/02/2014
Site Ref	20612	**Test Location:**	CBR126
Test No.:	1	**Easting:**	516626
Initial Depth (mm BGL):	458	**Northing:**	104606
Final Depth (mm BGL):	552		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	9	9	44.44	5.47
400	600	17	8	25.00	10.05

Average estimated CBR value of 10% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

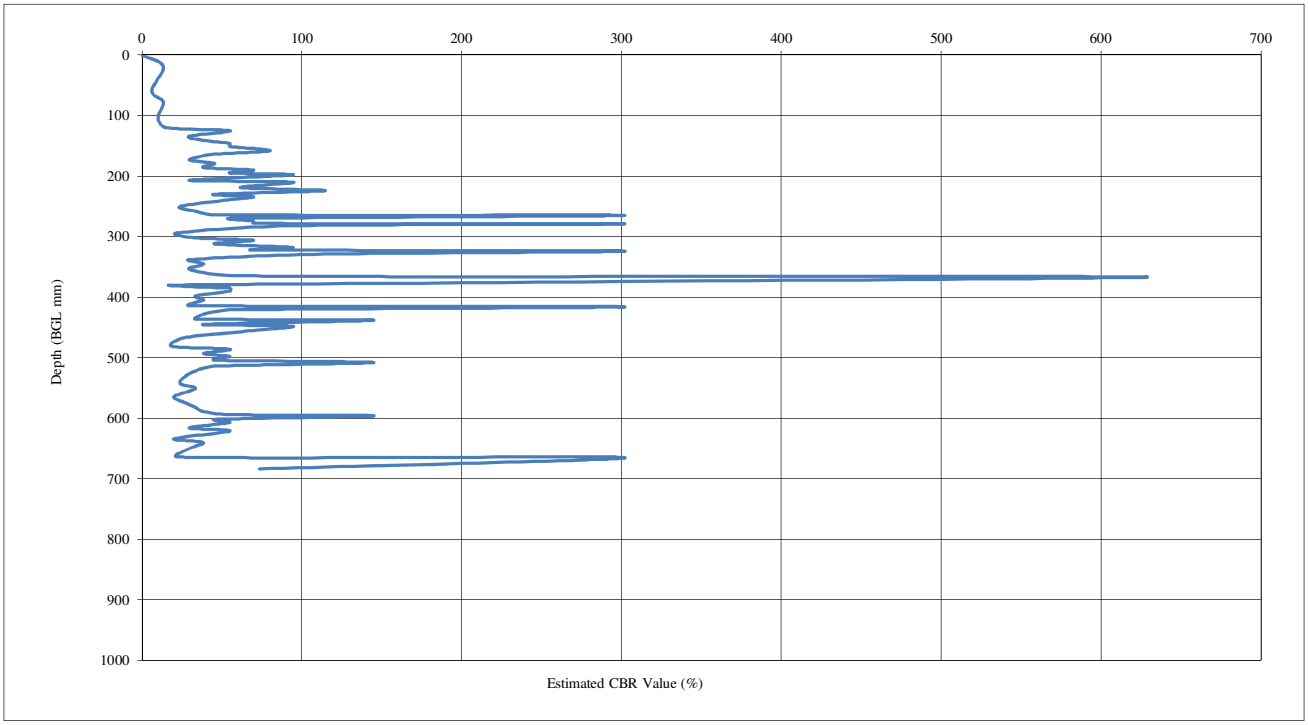
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	13/02/2014
Site Ref	20612	**Test Location:**	CBR127
Test No.:	1	**Easting:**	516698
Initial Depth (mm BGL):	296	**Northing:**	104663
Final Depth (mm BGL):	684		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	60	60	6.67	40.66
400	600	91	31	6.45	42.09
600	800	105	14	14.29	18.17

Average estimated CBR value of 42% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

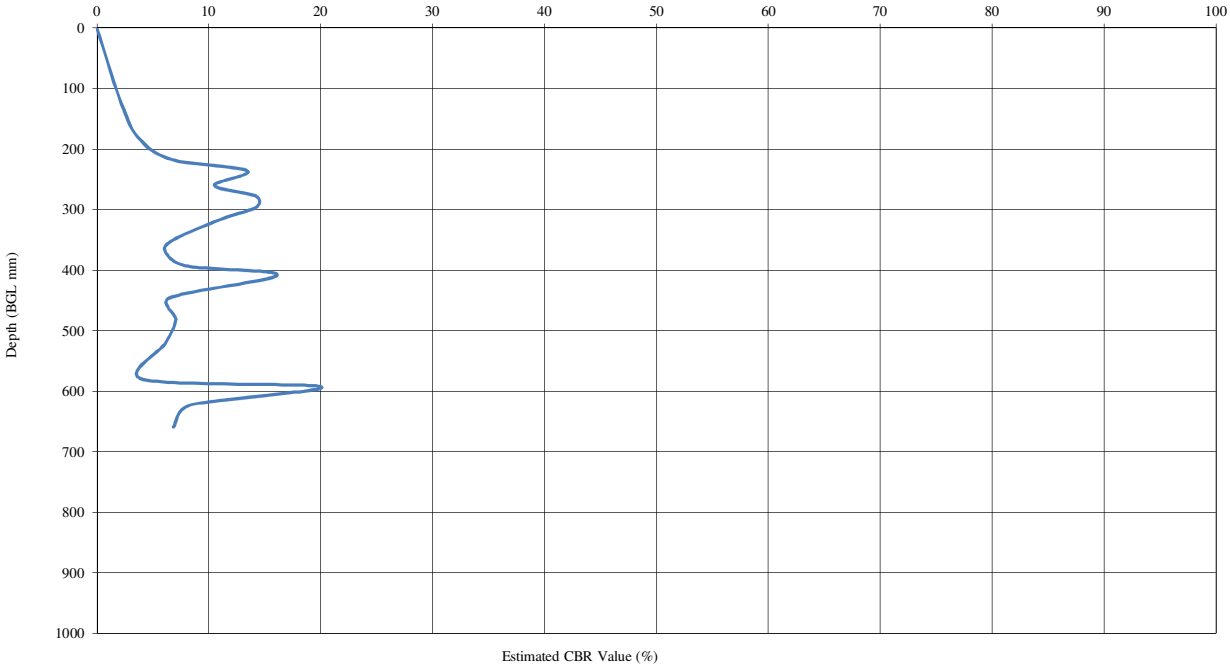
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	13/02/2014
Site Ref	20612	**Test Location:**	CBR128
Test No.:	1	**Easting:**	516684
Initial Depth (mm BGL):	308	**Northing:**	104600
Final Depth (mm BGL):	681		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	10	10	40.00	6.12
400	600	16	6	33.33	7.42
600	800	23	7	28.57	8.73

Average estimated CBR value of 7% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

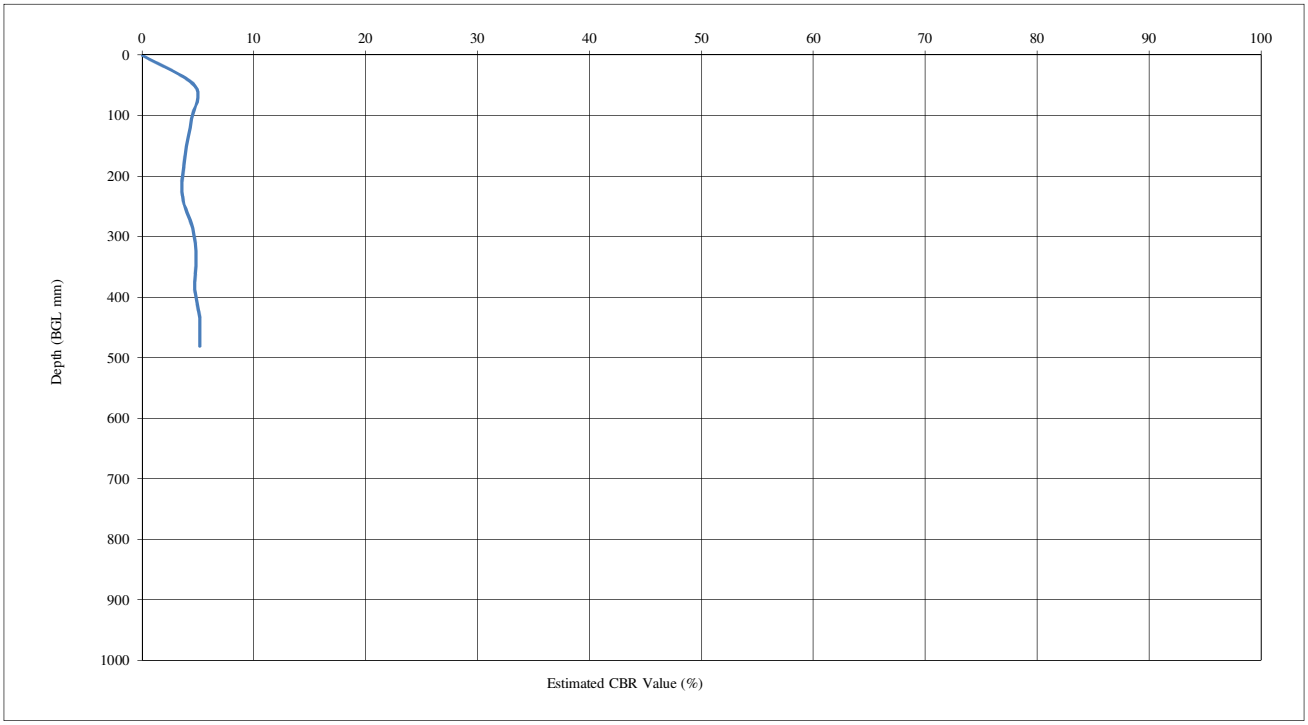
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	13/02/2014
Site Ref	20612	**Test Location:**	CBR129
Test No.:	1	**Easting:**	516631
Initial Depth (mm BGL):	475	**Northing:**	104553
Final Depth (mm BGL):	505		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	7	7	57.14	4.20
400	600	14	7	28.57	8.73

Average estimated CBR value of 8% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

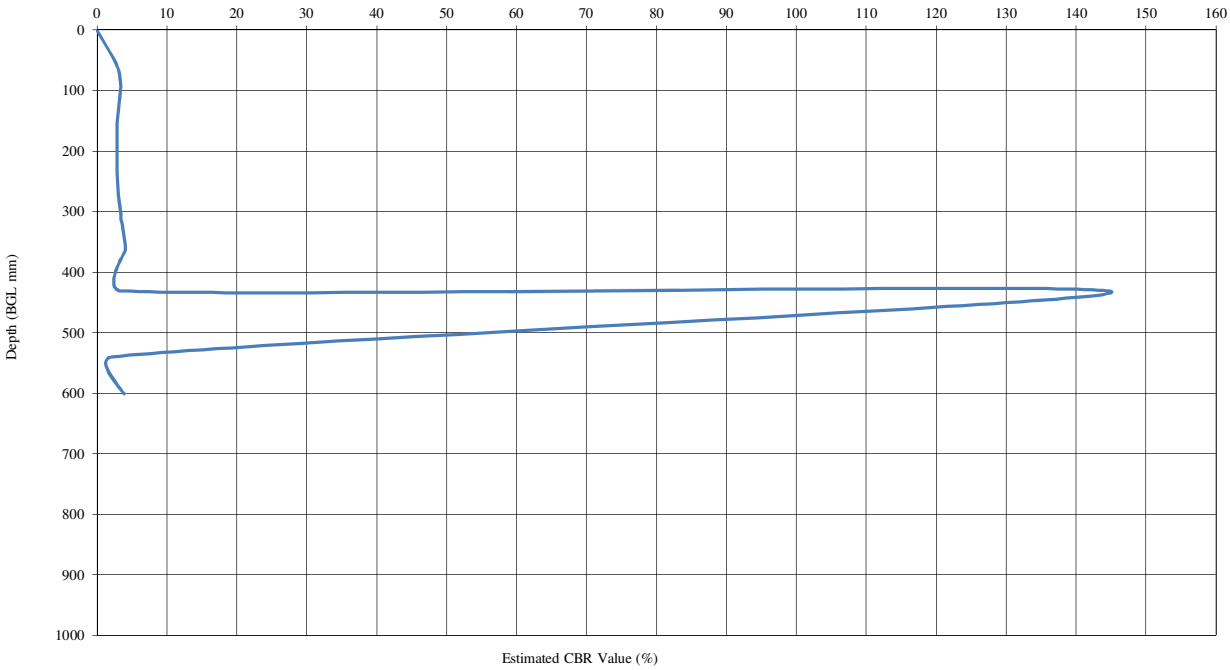
REC Geo-Environmental

Determination of Dynamic Cone Penetrometer - Estimated CBR Value (%)

In Accordance with TRL Report PR/INT/277/04

Site Name	Sompting, West Sussex	**Test Date:**	13/02/2014
Site Ref	20612	**Test Location:**	CBR130
Test No.:	1	**Easting:**	516615
Initial Depth (mm BGL):	375	**Northing:**	104491
Final Depth (mm BGL):	606		

Estimated California Bearing Ratio Graph



Start Depth (mm) BGL	Finish Depth (mm) BGL	No. of Blows	Blows Per Layer	DCP mm/Blows	Ave Estimated Layer (CBR %)
0	400	5	5	80.00	2.94
400	600	8	3	66.67	3.57
600	800	14	6	33.33	7.42

Average estimated CBR value of 4% between 0.40m - 0.60m bgl

Comments

Site Engineer:	Checked By:	Date:	Approved By:	Date:
D. Hull	W. Spraggs	18/02/2014	A. King	18/02/2014

REC
Resource & Environmental Consultants Ltd

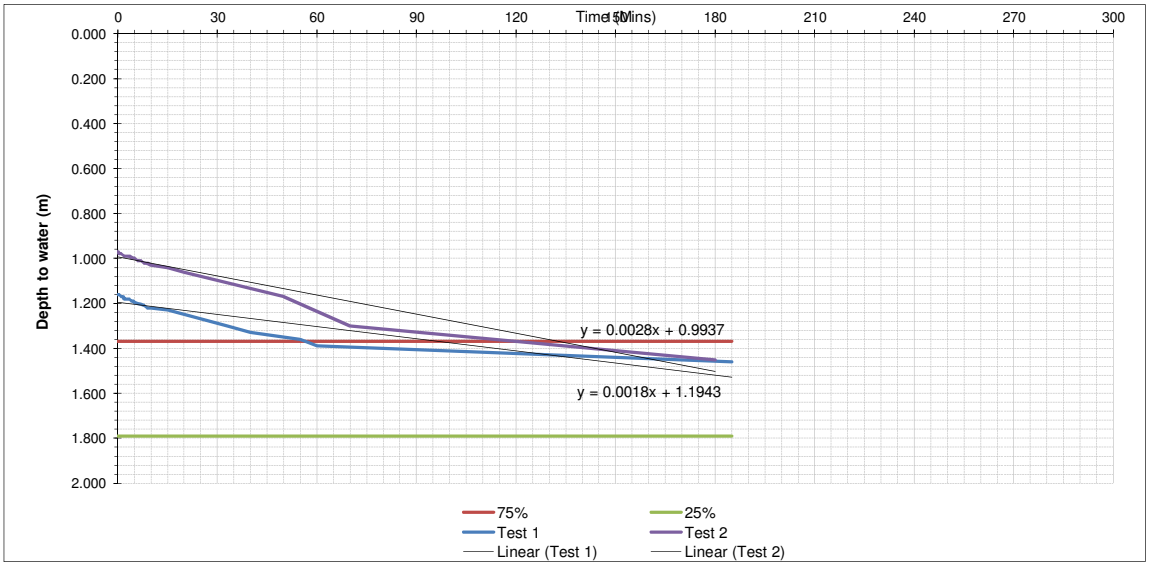
Site	**Sompting**
Job Number	**20612**
Date of Test	**27/05/2014**

Trial Pit Number	SA1	
Length.....	1.60	m
Width.....	0.60	m
Depth.....	2.00	m
Groundwater Level.....		m

Remarks	TEST 1		TEST 2		TEST 3	
	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)
	0	1.160	0	0.970		
	0.5	1.160	0.5	0.980		
	1	1.170	1	0.980		
	1.5	1.170	2	0.990		
	2	1.180	2.5	0.990		
	2.5	1.180	3.5	0.990		
	3.5	1.180	4	0.995		
	4	1.190	4.5	1.000		
	4.5	1.190	5	1.000		
	5	1.195	6	1.010		
	6	1.200	7	1.010		
	7	1.205	8	1.020		
	8	1.210	9	1.020		
	9	1.220	10	1.030		
	10	1.220	15	1.040		
	15	1.230	20	1.060		
	33	1.300	50	1.170		
	40	1.330	70	1.300		
	55	1.360	180	1.450		
	60	1.390				
	185	1.460				

Effective Storage Depth	m	0.84	1.03
75% Effective Storage Depth	m	0.63	0.77
(i.e. depth below GL)	m	1.37	1.23
25% Effective Storage Depth	m	0.21	0.26
(i.e. depth below GL)	m	1.79	1.74
Effective Storage Depth 75%-25%	m	0.42	0.52
Time to fall to 75% effective depth	mins	55.00	120.00
Time to fall to 25% effective depth	mins	310.00	272.00
V (75%-25%)	m3	0.40	0.49
a (50%)	m2	2.81	3.23
t (75%-25%)	mins	255.00	152.00
SOIL INFILTRATION RATE	m/s	**9.38E-06**	**1.68E-05**

DESIGN SOIL INFILTRATION RATE, f	**9.38E-06**



REC
Resource & Environmental Consultants Ltd

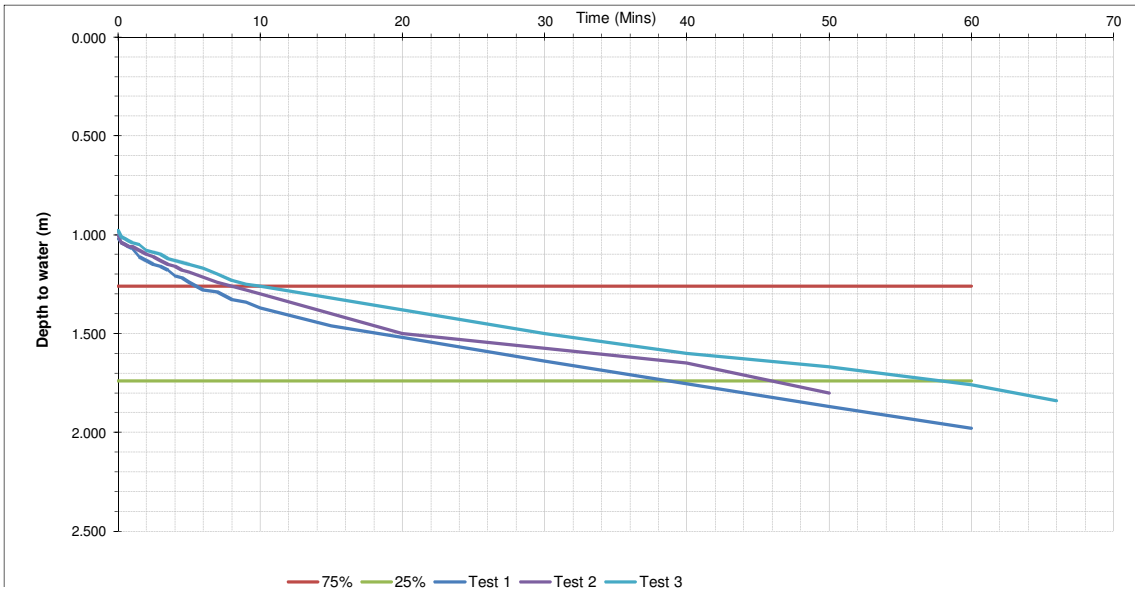
Site	**Sompting**
Job Number	**20612**
Date of Test	**27/05/2014**

Trial Pit Number	SA2	
Length.....	1.60	m
Width.....	0.60	m
Depth.....	1.98	m
Groundwater Level.....		m

Remarks	TEST 1		TEST 2		TEST 3	
	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)
	0	1.020	0	1.000	0	0.980
	0.25	1.040	0.25	1.040	0.25	1.010
	0.5	1.050	0.5	1.050	0.5	1.020
	0.75	1.060	0.75	1.060	0.75	1.030
	1	1.070	1	1.060	1	1.040
	1.5	1.110	1.5	1.080	1.5	1.050
	2	1.130	2	1.100	2	1.080
	2.5	1.150	2.5	1.110	2.5	1.090
	3	1.160	3	1.130	3	1.100
	3.5	1.180	3.5	1.150	3.5	1.120
	4	1.210	4	1.160	4	1.130
	4.5	1.220	4.5	1.180	4.5	1.140
	5	1.240	5	1.190	5	1.150
	6	1.280	7	1.240	6	1.170
	7	1.290	9	1.280	7	1.200
	8	1.330	10	1.300	8	1.230
	9	1.340	20	1.500	9	1.250
	10	1.370	40	1.650	10	1.260
	15	1.460	50	1.800	30	1.500
	20	1.520			40	1.600
	30	1.640			50	1.670
	50	1.870			60	1.760
	60	1.98			66	1.840

Effective Storage Depth	m	0.96	0.98	1.00
75% Effective Storage Depth	m	0.72	0.74	0.75
(i.e. depth below GL)	m	1.26	1.25	1.23
25% Effective Storage Depth	m	0.24	0.25	0.25
(i.e. depth below GL)	m	1.74	1.74	1.73
Effective Storage Depth 75%-25%	m	0.48	0.49	0.50
Time to fall to 75% effective depth	mins	5.50	8.00	10.00
Time to fall to 25% effective depth	mins	36.00	56.00	58.00
V (75%-25%)	m3	0.46	0.47	0.48
a (50%)	m2	3.07	3.12	3.16
t (75%-25%)	mins	30.50	48.00	48.00
SOIL INFILTRATION RATE	m/s	**8.20E-05**	**5.24E-05**	**5.27E-05**

DESIGN SOIL INFILTRATION RATE, f	**5.24E-05**



REC
Resource & Environmental Consultants Ltd

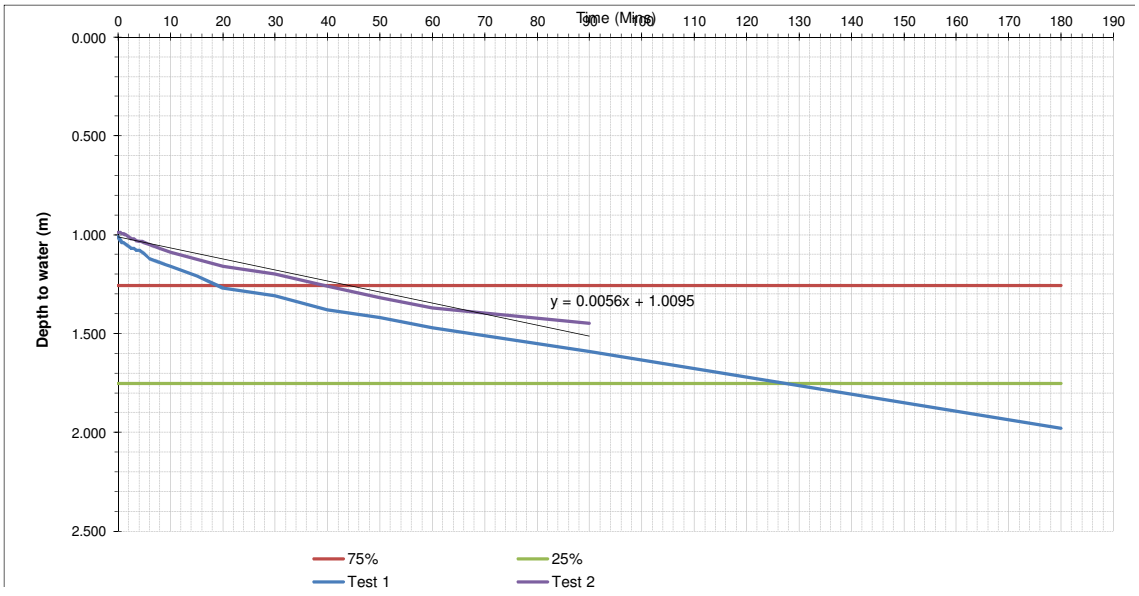
Site	**Sompting**
Job Number	**20612**
Date of Test	**27/05/2014**

Trial Pit Number	SA3	
Length.....	1.70	m
Width.....	0.60	m
Depth.....	2.00	m
Groundwater Level.....		m

Remarks	TEST 1		TEST 2		TEST 3	
	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)
	0	1.010	0	0.990		
	0.25	1.020	0.25	0.990		
	0.5	1.030	0.5	0.990		
	0.75	1.040	0.75	0.995		
	1	1.040	1	0.995		
	1.5	1.050	1.5	1.000		
	2	1.060	2	1.010		
	2.5	1.070	2.5	1.020		
	3	1.070	3	1.020		
	3.5	1.080	3.5	1.030		
	4	1.080	4	1.035		
	4.5	1.090	4.5	1.035		
	5	1.100	5	1.040		
	6	1.120	6	1.050		
	7	1.130	7	1.060		
	8	1.140	8	1.070		
	9	1.150	10	1.090		
	10	1.160	20	1.160		
	15	1.210	30	1.200		
	20	1.270	40	1.260		
	30	1.310	50	1.320		
	40	1.380	60	1.370		
	50	1.420	90	1.450		
	60	1.470				
	90	1.590				
	180	1.980				

Effective Storage Depth	m	0.99	1.01	
75% Effective Storage Depth	m	0.74	0.76	
(i.e. depth below GL)	m	1.26	1.24	
25% Effective Storage Depth	m	0.25	0.25	
(i.e. depth below GL)	m	1.75	1.75	
Effective Storage Depth 75%-25%	m	0.50	0.51	
Time to fall to 75% effective depth	mins	18.00	38.00	
Time to fall to 25% effective depth	mins	126.00	135.00	
V (75%-25%)	m3	0.50	0.52	
a (50%)	m2	3.30	3.34	
t (75%-25%)	mins	108.00	97.00	
SOIL INFILTRATION RATE	m/s	**2.36E-05**	**2.65E-05**	

DESIGN SOIL INFILTRATION RATE, f	**2.36E-05**



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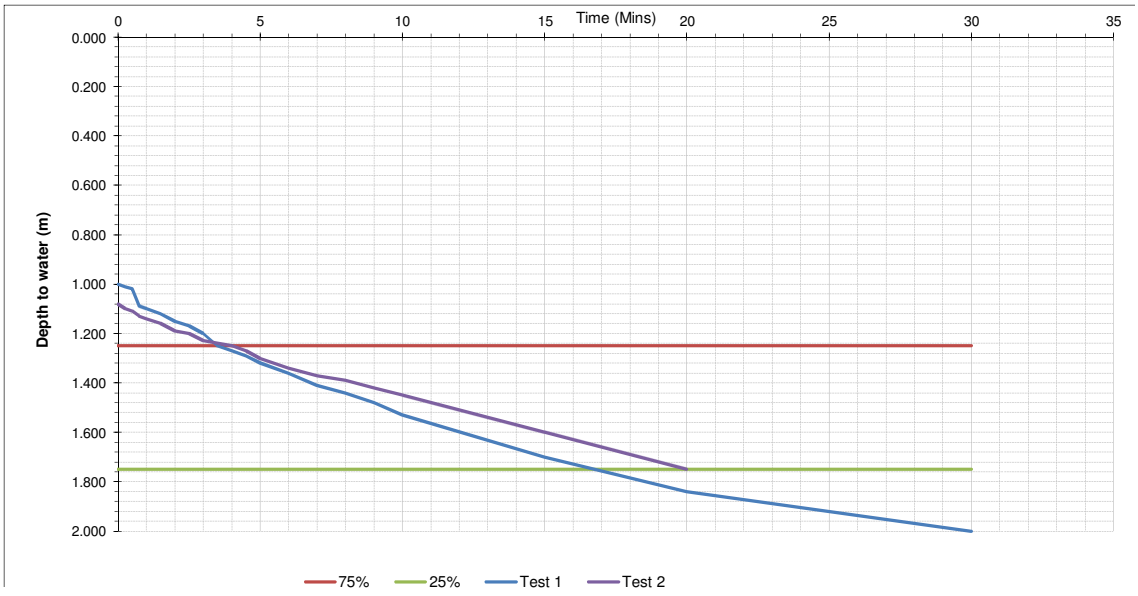
Site	**Sompting**
Job Number	**20612**
Date of Test	**28/05/2014**

Trial Pit Number	SA4	
Length.....	1.80	m
Width.....	0.60	m
Depth.....	2.00	m
Groundwater Level.....		m

Remarks	TEST 1		TEST 2		TEST 3	
	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)
	0	1.000	0	1.080		
	0.25	1.010	0.25	1.100		
	0.5	1.020	0.5	1.110		
	0.75	1.090	0.75	1.130		
	1	1.100	1	1.140		
	1.5	1.120	1.5	1.160		
	2	1.150	2	1.190		
	2.5	1.170	2.5	1.200		
	3	1.200	3	1.230		
	3.5	1.250	3.5	1.240		
	4	1.270	4	1.250		
	4.5	1.290	4.5	1.270		
	5	1.320	5	1.300		
	6	1.360	6	1.340		
	7	1.410	7	1.370		
	8	1.440	8	1.390		
	9	1.480	9	1.420		
	10	1.530	10	1.450		
	15	1.700	15	1.600		
	20	1.840	20	1.750		
	30	2.000	30			

Effective Storage Depth	m	1.00	0.92	
75% Effective Storage Depth	m	0.75	0.69	
(i.e. depth below GL)	m	1.25	1.31	
25% Effective Storage Depth	m	0.25	0.23	
(i.e. depth below GL)	m	1.75	1.77	
Effective Storage Depth 75%-25%	m	0.50	0.46	
Time to fall to 75% effective depth	mins	3.50	3.50	
Time to fall to 25% effective depth	mins	17.00	20.00	
V (75%-25%)	m3	0.54	0.50	
a (50%)	m2	3.48	3.29	
t (75%-25%)	mins	13.50	16.50	
SOIL INFILTRATION RATE	m/s	**1.92E-04**	**1.53E-04**	

DESIGN SOIL INFILTRATION RATE, f	**1.53E-04**



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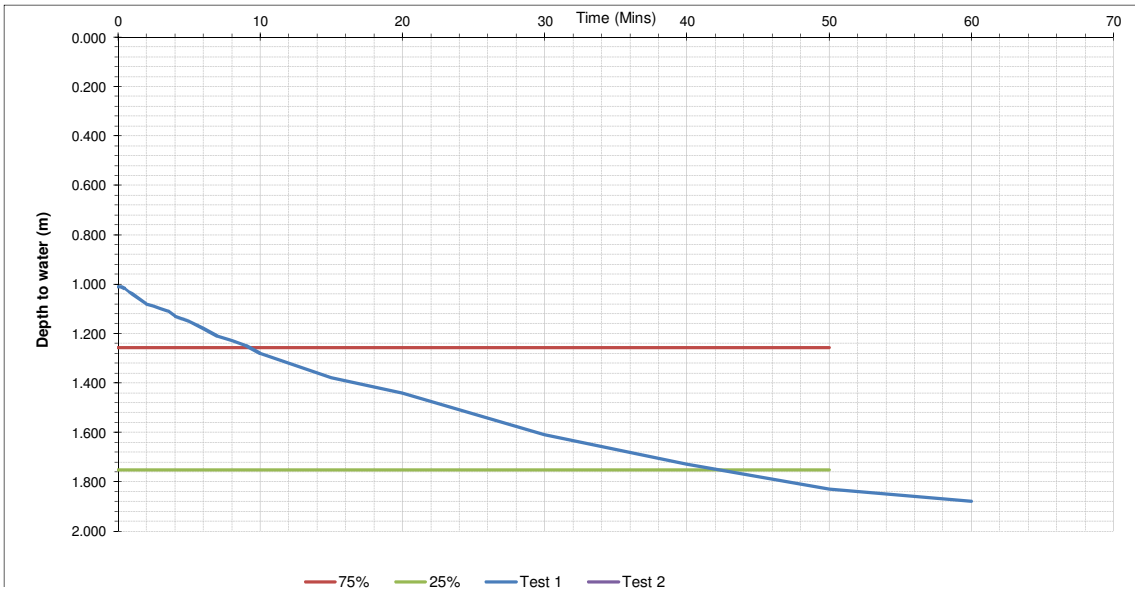
Site	**Sompting**
Job Number	**20612**
Date of Test	**28/05/2014**

Trial Pit Number	SA5	
Length.....	1.70	m
Width.....	0.60	m
Depth.....	2.00	m
Groundwater Level.....		m

Remarks	TEST 1		TEST 2		TEST 3	
	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)
	0	1.010				
	0.25	1.010				
	0.5	1.020				
	0.75	1.030				
	1	1.040				
	2	1.080				
	2.5	1.090				
	3	1.100				
	3.5	1.110				
	4	1.130				
	4.5	1.140				
	5	1.150				
	6	1.180				
	7	1.210				
	8	1.230				
	9	1.250				
	10	1.280				
	15	1.380				
	20	1.440				
	30	1.610				
	40	1.730				
	50	1.830				
	60	1.88				

Effective Storage Depth	m	0.99		
75% Effective Storage Depth	m	0.74		
(i.e. depth below GL)	m	1.26		
25% Effective Storage Depth	m	0.25		
(i.e. depth below GL)	m	1.75		
Effective Storage Depth 75%-25%	m	0.50		
Time to fall to 75% effective depth	mins	9.50		
Time to fall to 25% effective depth	mins	43.00		
V (75%-25%)	m3	0.50		
a (50%)	m2	3.30		
t (75%-25%)	mins	33.50		
SOIL INFILTRATION RATE	m/s	**7.62E-05**		

DESIGN SOIL INFILTRATION RATE, f	**7.62E-05**



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Resource & Environmental Consultants Ltd

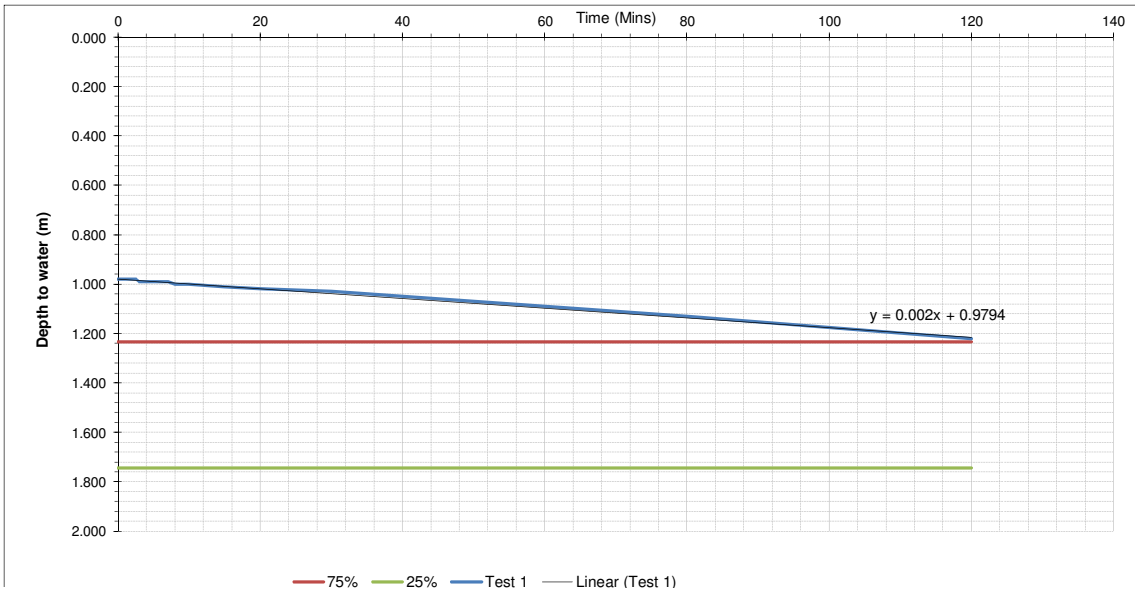
Site	**Sompting**
Job Number	**20612**
Date of Test	**28/05/2014**

Trial Pit Number	SA6	
Length.....	1.70	m
Width.....	0.60	m
Depth.....	2.00	m
Groundwater Level.....		m

Remarks	TEST 1		TEST 2		TEST 3	
	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)
	0	0.980				
	0.25	0.980				
	0.5	0.980				
	0.75	0.980				
	1	0.980				
	1.5	0.980				
	2	0.980				
	2.5	0.980				
	3	0.990				
	3.5	0.990				
	4	0.990				
	4.5	0.990				
	5	0.990				
	6	0.990				
	7	0.990				
	8	1.000				
	9	1.000				
	10	1.000				
	15	1.010				
	20	1.020				
	30	1.030				
	80	1.130				
	120	1.22				
	210	1.220				

Effective Storage Depth	m	1.02		
75% Effective Storage Depth	m	0.77		
(i.e. depth below GL)	m	1.24		
25% Effective Storage Depth	m	0.26		
(i.e. depth below GL)	m	1.75		
Effective Storage Depth 75%-25%	m	0.51		
Time to fall to 75% effective depth	mins	125.00		
Time to fall to 25% effective depth	mins	386.00		
V (75%-25%)	m3	0.52		
a (50%)	m2	3.37		
t (75%-25%)	mins	261.00		
SOIL INFILTRATION RATE	m/s	**9.87E-06**		

DESIGN SOIL INFILTRATION RATE, f	**9.87E-06**



REC
Resource & Environmental Consultants Ltd

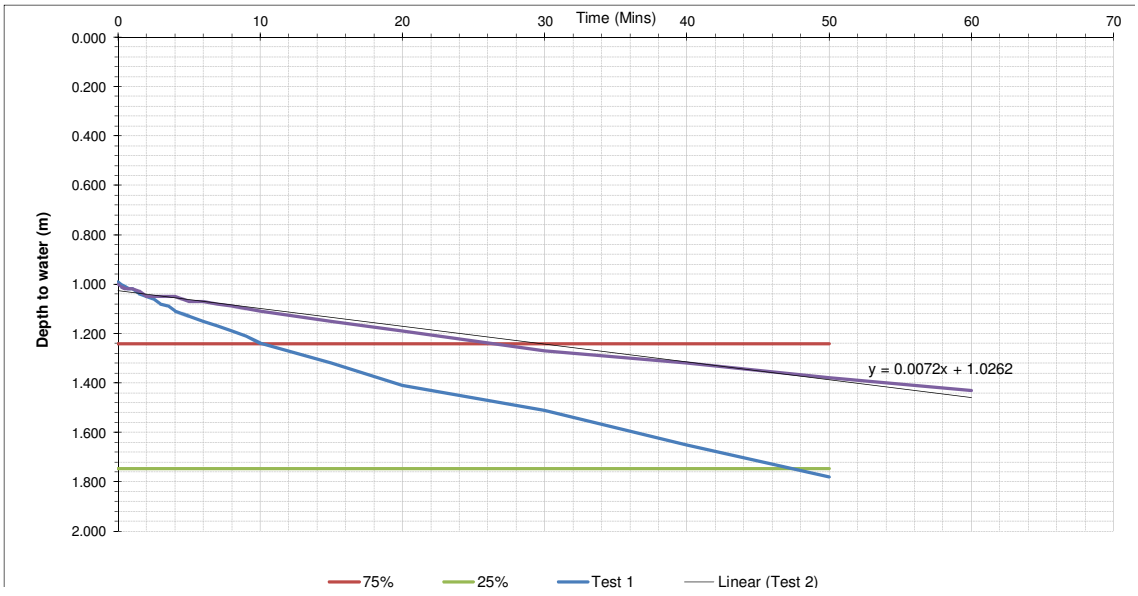
Site	**Sompting**
Job Number	**20612**
Date of Test	**28/05/2014**

Trial Pit Number	SA7	
Length.....	1.75	m
Width.....	0.60	m
Depth.....	2.00	m
Groundwater Level.....		m

Remarks	TEST 1		TEST 2		TEST 3	
	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)
	0	0.990	0	1.000		
	0.25	1.000	0.25	1.010		
	0.5	1.010	0.5	1.020		
	0.75	1.020	0.75	1.020		
	1	1.020	1	1.020		
	1.5	1.040	1.5	1.030		
	2.5	1.060	2	1.050		
	3	1.080	2.5	1.050		
	3.5	1.090	3	1.050		
	4	1.110	3.5	1.050		
	4.5	1.120	4	1.050		
	5	1.130	4.5	1.060		
	6	1.150	5	1.070		
	7	1.170	6	1.070		
	8	1.190	7	1.080		
	9	1.210	8	1.090		
	10	1.240	9	1.100		
	15	1.320	10	1.110		
	20	1.410	15	1.150		
	30	1.510	20	1.190		
	40	1.650	30	1.270		
	50	1.780	40	1.320		
	60	1.85	50	1.380		
			60	1.430		

Effective Storage Depth	m	1.01	1.00	
75% Effective Storage Depth	m	0.76	0.75	
(i.e. depth below GL)	m	1.24	1.25	
25% Effective Storage Depth	m	0.25	0.25	
(i.e. depth below GL)	m	1.75	1.75	
Effective Storage Depth 75%-25%	m	0.51	0.50	
Time to fall to 75% effective depth	mins	10.00	26.00	
Time to fall to 25% effective depth	mins	47.00	102.00	
V (75%-25%)	m3	0.53	0.53	
a (50%)	m2	3.42	3.40	
t (75%-25%)	mins	37.00	76.00	
SOIL INFILTRATION RATE	m/s	**6.98E-05**	**3.39E-05**	

DESIGN SOIL INFILTRATION RATE, f	**3.39E-05**



APPENDIX VII

ORIGIN OF GENERIC ASSESSMENT CRITERIA

ORIGIN OF REC TIER I VALUES

Constituent	Origin of Risk Assessment Value
Arsenic	2009 SGV
Cadmium	LQM CIEH 2nd Edition 2009
Chromium	LQM CIEH 2nd Edition 2009
Lead	Residential Half 2003 EA SGV based on planned target blood lead level reduction to 5µg/l.
	Commercial Calculated using commercial exposure equation within lead SGV 2003 with revised input data from HPA and taking proposed blood lead levels into account.
Mercury	2009 SGV
Nickel	2009 SGV
Selenium	Soil guideline value, DEFRA/Environment Agency
Copper	LQM CIEH 2nd Edition 2009
Zinc	LQM CIEH 2nd Edition 2009
Cyanide - Total	CLEA 1.06 Derived Value
Phenols - Total.	LQM CIEH 2nd Edition 2009 – 1% SOM
Naphthalene	General Assessment Criteria (GAC) developed by CIEH / LQM the using CLEA 1-06 with supporting data from SR3, SR7 and existing Tox report where applicable. 1% SOM
Acenaphthylene	
Acenaphthene	
Fluorene	
Phenanthrene	
Anthracene	
Fluoranthene	
Pyrene	
Benzo(a)Anthracene(	
Chrysene	
Benzo(b/k)Fluoranthene (iii)	
Benzo(a)Pyrene	
Indeno(123-cd)Pyrene	
Dibenzo(a,h)Anthracene	
Benzo(ghi)Perylene	
TPH C_5-C_6 (aliphatic)	
TPH C_6-C_8 (aliphatic)	
TPH C_8-C_{10} (aliphatic)	
TPH C_{10}-C_{12} (aliphatic)	
TPH C_{12}-C_{16} (aromatic)	
TPH C_{16}-C_{21} (aromatic)	
TPH C_{21}-C_{35} (aromatic)	

APPENDIX VII

GROUND GAS DATA

REC Geo-Environmental

Gas Assessment Data

Well	Date	Methane Peak	Methane Steady	Methane GSV	Carbon Dioxide Peak	Carbon Dioxide Steady	Carbon Dioxide GSV	Oxygen %v/v	Atmos.	Atmos Dynamic	Flow	Response Zone	Depth to Base	Depth to Water	Groundwater Level Comments	H2S	PID	
		%v/v	%v/v	l/hr	%v/v	%v/v	l/hr											
WS101A	19/02/2014	0.00	0.00	0	0.20	0.10	0	20.10	1006	Stable	0.00		4.38	N/A				
	25/02/2014	-0.10	-0.10	0	0.10	0.10	0	20.20	994	Stable	0.00			N/A				
	05/03/2014	0.00	0.00	0	0.00	0.00	0	20.20	1019.00	Stable	0.10			N/A				
WS102	19/02/2014	0.00	0.00	0	0.20	0.20	0	20.40	1006	Stable	0.00		4.85	2.52				
	25/02/2014	-0.10	-0.10	0	0.10	0.10	0	20.20	994	Stable	0.00			3.63				
	05/03/2014	0.00	0.00	0	0.00	0.00	0	20.20	1019.00	Stable	0.10			3.35				
WS103	19/02/2014	0.00	0.00	0	0.50	0.20	0	19.90	1006	Stable	0.00		4.9	3.91				
	25/02/2014	-0.10	-0.10	-0.0007	0.10	0.10	0.0007	20.30	995	Stable	0.70			4.5				
	05/03/2014	0.00	0.00	0	0.10	0.10	0.0001	20.20	1019.00	Stable	0.10			N/A				
WS104	19/02/2014	N/A	N/A	#VALUE!	N/A	**N/A**	#VALUE!	N/A	N/A	Stable	N/A		4.18	0.01	Totally Submerged			
	25/02/2014	-0.20	-0.20	0	0.10	0.10	0	20.30	997.00	Stable	0.00			0.51	20 mins bailing but as fast as water comes out it recharges			
	05/03/2014	0.00	0.00	0	0.10	0.10	0	20.20	1019.00	Stable	0.00			1.3				
WS106	19/02/2014	0.00	0.00	0	1.10	1.10	0	18.70	1006.00	Stable	0.00		2.28	1.67				
	25/02/2014	0.00	0.00	0	0.10	0.00	0	20.10	994.00	Stable	0.00			1.74				
	05/03/2014	-0.10	-0.10	-0.0001	1.30	1.30	0.0013	17.80	1020.00	Stable	0.10			2.02				
WS107	19/02/2014	0.00	0.00	0	0.70	0.50	0	17.70	1007.00	Stable	0.00		3.77	1.73				
	25/02/2014	-0.10	-0.10	0	0.10	0.00	0	20.10	994.00	Stable	0.00			1.3				
	05/03/2014	-0.10	-0.10	-0.0001	0.60	0.40	0.0004	17.60	1020.00	Stable	0.10			1.84				
WS109	19/02/2014	0.00	0.00	0	0.90	0.90	0	14.00	1007.00	Stable	0.00		4.4	1.48				
	25/02/2014	-0.10	-0.10	-0.0004	0.10	0.00	0	20.10	994.00	Stable	0.40			1.65				
	05/03/2014	-0.10	-0.10	-0.0003	2.00	**2.00**	0.006	9.00	1020.00	Stable	0.30			1.64				
WS111	19/02/2014	0.00	0.00	0	0.50	0.30	0	19.50	1006.00	Stable	0.00		4.87	1.65				
	25/02/2014	-0.10	-0.10	0	0.10	0.00	0	20.10	993.00	Stable	0.00			2.51				
	05/03/2014	-0.10	-0.10	-0.0029	0.60	0.00	0	19.70	1020.00	Stable	2.90			3.55				
WS112	19/02/2014	0.00	0.00	0	0.60	0.60	0	19.20	1007.00	Stable	0.00		5	3.5				
	25/02/2014	-0.10	-0.10	-0.0001	0.00	0.00	0	20.10	993.00	Stable	0.10			3.56				
	05/03/2014	-0.10	-0.10	-0.0001	0.80	0.80	0.0008	17.90	1020.00	Stable	0.10			3.6				
WS113	19/02/2014	0.00	0.00	0	0.30	0.10	0	20.10	1006.00	Stable	0.00		1.46	0.65				
	25/02/2014	0.00	0.00	0	0.10	0.10	0	20.10	994.00	Stable	0.00			0.55				
	05/03/2014	0.00	0.00	0	0.50	0.30	0.0006	20.00	1020.00	Stable	0.20			0.5				

REC Ltd is a multi-disciplinary health, safety, environmental and energy consultancy. Our national coverage enables our local experts to provide cost effective and pragmatic consultancy services in an efficient and sustainable manner.