

REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.

The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed.

Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.

Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envirolab.co.uk

Client:	Structural Soils Limited (Bristol), The Old School , Stillhouse Lane, Bedminster, Bristol, UK, BS3 4EB	Project No:	20/04352
Project:	Greenway	Date Received:	02/06/2020 (am)
Clients Project No:	563166	Cool Box Temperatures (°C):	16.4

NO DEVIATIONS IDENTIFIED

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Final Test Report

Envirolab Job Number: 20/04486
Issue Number: 1

Date: 18-Jun-20

Client: Structural Soils Limited (Bristol)
The Old School
Stillhouse Lane
Bedminster
Bristol
UK, BS3 4EB

Project Manager: David Pellatt/Gareth R. Jones/Tom Payne
Project Name: Greenway
Project Ref: 563166
Order No: N/A

Date Samples Received: 2-Jun-20
Date Instructions Received: 5-Jun-20
Date Analysis Completed: 18-Jun-20

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

Prepared by:



Holly Neary-King
Administration & Client Services Supervisor

Approved by:



John Gustafson
Managing Director

Sample Details					Landfill Waste Acceptance Criteria Limits			
Lab Sample ID	Method	ISO17025	MCERTS	20/04486/3				
Client Sample Number				101	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill	
Client Sample ID				BH8				
Depth to Top				0.2				
Depth to Bottom								
Date Sampled				01/06/2020				
Sample Type				Soil - ES				
Sample Matrix Code				6AE				
Solid Waste Analysis								
pH (pH Units) _D	A-T-031	N	N	7.02	-	>6	-	
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.02	-	to be evaluated	to be evaluated	
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	<0.01	-	to be evaluated	to be evaluated	
Loss on Ignition (%) _D	A-T-030	N	N	4	-	-	10	
Total Organic Carbon (%) _D	A-T-032	N	N	1.17	3	5	6	
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N		100	-	-	
Mineral Oil (mg/kg) _A	A-T-007	N	N		500	-	-	
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N		1	-	-	
Sum of BTEX (mg/kg) _A	A-T-022	N	N		6	-	-	
Eluate Analysis				10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
				mg/l	mg/kg			
Arsenic	A-T-025	N	N	0.003	0.030	0.5	2	25
Barium	A-T-025	N	N	0.055	0.550	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.01	0.04	1	5
Chromium	A-T-025	N	N	0.002	0.020	0.5	10	70
Copper	A-T-025	N	N	0.012	0.120	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	<0.01	0.5	10	30
Nickel	A-T-025	N	N	0.005	0.050	0.4	10	40
Lead	A-T-025	N	N	0.048	0.480	0.5	10	50
Antimony	A-T-025	N	N	0.001	0.010	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	<0.01	0.1	0.5	7
Zinc	A-T-025	N	N	0.070	0.700	4	50	200
Chloride	A-T-026	N	N	3	31	800	15000	25000
Fluoride	A-T-026	N	N	0.3	3.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	32	318	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	31	310	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	26.80	268	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.8				
Conductivity (µS/cm)	A-T-037	N	N	63				
Mass Sample (kg)				0.195				
Dry Matter (%)	A-T-044	N	N	89.6				
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation								

Sample Details					Landfill Waste Acceptance Criteria Limits			
Lab Sample ID	Method	ISO17025	MCERTS	20/04486/5				
Client Sample Number				103	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill	
Client Sample ID				BH8				
Depth to Top				5				
Depth to Bottom				5.50				
Date Sampled				02/06/2020				
Sample Type				Soil - ES				
Sample Matrix Code				5A				
Solid Waste Analysis								
pH (pH Units) _D	A-T-031	N	N	8.29	-	>6	-	
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.03	-	to be evaluated	to be evaluated	
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.01	-	to be evaluated	to be evaluated	
Loss on Ignition (%) _D	A-T-030	N	N	5.8	-	-	10	
Total Organic Carbon (%) _D	A-T-032	N	N	<0.03	3	5	6	
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N		100	-	-	
Mineral Oil (mg/kg) _A	A-T-007	N	N		500	-	-	
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N		1	-	-	
Sum of BTEX (mg/kg) _A	A-T-022	N	N		6	-	-	
Eluate Analysis				10:1 mg/l	10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic	A-T-025	N	N	<0.001	<0.01	0.5	2	25
Barium	A-T-025	N	N	0.002	0.020	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.01	0.04	1	5
Chromium	A-T-025	N	N	<0.001	<0.01	0.5	10	70
Copper	A-T-025	N	N	<0.001	<0.01	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	<0.001	<0.01	0.5	10	30
Nickel	A-T-025	N	N	<0.001	<0.01	0.4	10	40
Lead	A-T-025	N	N	<0.001	<0.01	0.5	10	50
Antimony	A-T-025	N	N	0.002	0.020	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	<0.01	0.1	0.5	7
Zinc	A-T-025	N	N	<0.001	<0.01	4	50	200
Chloride	A-T-026	N	N	<1.00	<10	800	15000	25000
Fluoride	A-T-026	N	N	1.0	10.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	38	375	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	81	810	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<0.2	<200	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.5				
Conductivity (µS/cm)	A-T-037	N	N	162				
Mass Sample (kg)				0.21				
Dry Matter (%)	A-T-044	N	N	83.5				
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation								

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/04486
Issue Number: 1
Date: 18 June, 2020

Client: Structural Soils Limited (Bristol)
The Old School
Stillhouse Lane
Bedminster
Bristol
UK
BS3 4EB

Project Manager: David Pellatt/Gareth R. Jones/Tom Payne
Project Name: Greenway
Project Ref: 563166
Order No: N/A
Date Samples Received: 02/06/20
Date Instructions Received: 05/06/20
Date Analysis Completed: 18/06/20

Prepared by:

Approved by:

A handwritten signature in blue ink that reads "Holly Neary-King".

Holly Neary-King
Administration & Client Services Supervisor

A handwritten signature in blue ink that reads "John Gustafson".

John Gustafson
Managing Director

Envirolab Job Number: 20/04486

Client Project Name: Greenway

Client Project Ref: 563166

Lab Sample ID	20/04486/3	20/04486/5						Units	Limit of Detection	Method ref
Client Sample No	101	103								
Client Sample ID	BH8	BH8								
Depth to Top	0.20	5.00								
Depth To Bottom		5.50								
Date Sampled	01-Jun-20	02-Jun-20								
Sample Type	Soil - ES	Soil - ES								
Sample Matrix Code	6AE	5A								
% Moisture at <40C _A	7.5	14.4						% w/w	0.1	A-T-044
% Stones >10mm _A	59.6	<0.1						% w/w	0.1	A-T-044
pH _D ^{M#}	7.02	8.29						pH	0.01	A-T-031s
ANC to pH4 _D	0.02	0.03						mol/kg	0.01	A-T-ANCs
ANC to pH6 _D	<0.01	0.01						mol/kg	0.01	A-T-ANCs
Sulphate (acid soluble) _D ^{M#}	220	630						mg/kg	200	A-T-028s
Cyanide (total) _A ^{M#}	<1	<1						mg/kg	1	A-T-042sTCN
Sulphide _A	<5	<5						mg/kg	5	A-T-S2-s
Loss on ignition (550degC) _D ^{M#}	4.0	5.8						% w/w	0.6	A-T-030s
Organic matter _D ^{M#}	2.0	<0.1						% w/w	0.1	A-T-032 OM
Total Organic Carbon _D ^{M#}	1.17	<0.03						% w/w	0.03	A-T-032s
Arsenic _D ^{M#}	3	3						mg/kg	1	A-T-024s
Boron (water soluble) _D ^{M#}	<1.0	2.6						mg/kg	1	A-T-027s
Cadmium _D ^{M#}	<0.5	0.6						mg/kg	0.5	A-T-024s
Copper _D ^{M#}	10	12						mg/kg	1	A-T-024s
Chromium _D ^{M#}	15	25						mg/kg	1	A-T-024s
Lead _D ^{M#}	34	18						mg/kg	1	A-T-024s
Mercury _D	<0.17	<0.17						mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	11	81						mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1						mg/kg	1	A-T-024s
Zinc _D ^{M#}	56	56						mg/kg	5	A-T-024s
EPH Total (>C10-C40) _A [#]	23	<10						mg/kg	10	A-T-007s
Chromium (leachable) _A [#]	2	<1						µg/l	1	A-T-025w
Chromium (hexavalent) (leachable) _A	<0.05	<0.05						mg/l	0.05	A-T-040w
Chromium (trivalent) (leachable)	<0.05	<0.05						mg/l	0.05	Calc

Envirolab Job Number: 20/04486

Client Project Name: Greenway

Client Project Ref: 563166

Lab Sample ID	20/04486/3	20/04486/5								
Client Sample No	101	103								
Client Sample ID	BH8	BH8								
Depth to Top	0.20	5.00								
Depth To Bottom		5.50								
Date Sampled	01-Jun-20	02-Jun-20								
Sample Type	Soil - ES	Soil - ES								
Sample Matrix Code	6AE	5A								
Asbestos in Soil (inc. matrix) ^										
Asbestos in soil [#]	NAD	-								A-T-045
Asbestos ACM - Suitable for Water Absorption Test? ^D	N/A	-								A-T-045
BTEX										
BTEX - Benzene ^{A#}	<0.01	<0.01						mg/kg	0.01	A-T-022s
BTEX - Toluene ^{A#}	<0.01	<0.01						mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene ^{A#}	<0.01	<0.01						mg/kg	0.01	A-T-022s
BTEX - m & p Xylene ^{A#}	<0.01	<0.01						mg/kg	0.01	A-T-022s
BTEX - o Xylene ^{A#}	<0.01	<0.01						mg/kg	0.01	A-T-022s
OCP+OPP Combined Pest Suite (incl. Atrazine and Simazine)										
Dichlobenil _A	<0.01	-						mg/kg	0.01	A-T-056
Tecnazene _A	<0.01	-						mg/kg	0.01	A-T-056
Trifluralin _A	<0.01	-						mg/kg	0.01	A-T-056
alpha-Hexachlorocyclohexane (HCH) _A	<0.01	-						mg/kg	0.01	A-T-056
Hexachlorobenzene (HCB) _A	<0.01	-						mg/kg	0.01	A-T-056
Simazine _A	<0.01	-						mg/kg	0.01	A-T-056
Atrazine _A	<0.01	-						mg/kg	0.01	A-T-056
beta-Hexachlorocyclohexane (HCH) _A	<0.01	-						mg/kg	0.01	A-T-056
Quintozene (PCNB) _A	<0.01	-						mg/kg	0.01	A-T-056
Chlorothalonil _A	<0.01	-						mg/kg	0.01	A-T-056
delta-Hexachlorocyclohexane (HCH) _A	<0.01	-						mg/kg	0.01	A-T-056
Triallate _A	<0.01	-						mg/kg	0.01	A-T-056
Heptachlor _A	<0.01	-						mg/kg	0.01	A-T-056
Aldrin _A	<0.01	-						mg/kg	0.01	A-T-056
Triadimefon _A	<0.01	-						mg/kg	0.01	A-T-056
Telodrin _A	<0.01	-						mg/kg	0.01	A-T-056
Isodrin _A	<0.01	-						mg/kg	0.01	A-T-056
Pendimethalin _A	<0.01	-						mg/kg	0.01	A-T-056
Heptachlor epoxide _A	<0.01	-						mg/kg	0.01	A-T-056
trans-Chlordane (Gamma) _A	<0.01	-						mg/kg	0.01	A-T-056

Envirolab Job Number: 20/04486

Client Project Name: Greenway

Client Project Ref: 563166

Lab Sample ID	20/04486/3	20/04486/5						Units	Limit of Detection	Method ref
Client Sample No	101	103								
Client Sample ID	BH8	BH8								
Depth to Top	0.20	5.00								
Depth To Bottom		5.50								
Date Sampled	01-Jun-20	02-Jun-20								
Sample Type	Soil - ES	Soil - ES								
Sample Matrix Code	6AE	5A								
o,p-DDE (2,4) _A	<0.01	-						mg/kg	0.01	A-T-056
Endosulphan I (Alpha) _A	<0.01	-						mg/kg	0.01	A-T-056
cis-Chlordane (Alpha) _A	<0.01	-						mg/kg	0.01	A-T-056
p,p-DDE (4,4) _A	<0.01	-						mg/kg	0.01	A-T-056
Dieldrin _A	<0.01	-						mg/kg	0.01	A-T-056
o,p-DDD (2,4) _A	<0.01	-						mg/kg	0.01	A-T-056
Endrin _A	<0.01	-						mg/kg	0.01	A-T-056
Endosulphan II (Beta) _A	<0.01	-						mg/kg	0.01	A-T-056
p,p-DDD (4,4) _A	<0.01	-						mg/kg	0.01	A-T-056
o,p-DDT (2,4) _A	<0.01	-						mg/kg	0.01	A-T-056
Endrin Aldehyde _A	<0.01	-						mg/kg	0.01	A-T-056
Endrin Ketone _A	<0.01	-						mg/kg	0.01	A-T-056
Endosulphan Sulphate _A	<0.01	-						mg/kg	0.01	A-T-056
p,p-DDT (4,4) _A	<0.01	-						mg/kg	0.01	A-T-056
o,p-Methoxychlor _A	<0.01	-						mg/kg	0.01	A-T-056
p,p-Methoxychlor _A	<0.01	-						mg/kg	0.01	A-T-056
Permethrin I (cis) _A	<0.01	-						mg/kg	0.01	A-T-056
Permethrin II (trans) _A	<0.01	-						mg/kg	0.01	A-T-056
Dichlorvos _A	<0.01	-						mg/kg	0.01	A-T-056
Mevinphos _A	<0.01	-						mg/kg	0.01	A-T-056
Demeton-S _A	<0.50	-						mg/kg	0.5	A-T-056
Demeton-O _A	<0.50	-						mg/kg	0.5	A-T-056
Phorate _A	<0.01	-						mg/kg	0.01	A-T-056
Dimethoate _A	<0.01	-						mg/kg	0.01	A-T-056
Propetamphos _A	<0.01	-						mg/kg	0.01	A-T-056
Diazinon (Dimpylate) _A	<0.01	-						mg/kg	0.01	A-T-056
Disulfoton _A	<0.10	-						mg/kg	0.1	A-T-056
Etrimphos _A	<0.01	-						mg/kg	0.01	A-T-056
Chlorpyrifos-methyl _A	<0.01	-						mg/kg	0.01	A-T-056
Parathion (Ethyl Parathion) _A	<0.01	-						mg/kg	0.01	A-T-056
Methyl Parathion _A	<0.01	-						mg/kg	0.01	A-T-056
Pirimiphos-methyl _A	<0.01	-						mg/kg	0.01	A-T-056
Fenitrothion _A	<0.01	-						mg/kg	0.01	A-T-056
Fensulphothion _A	<0.01	-						mg/kg	0.01	A-T-056

Envirolab Job Number: 20/04486

Client Project Name: Greenway

Client Project Ref: 563166

Lab Sample ID	20/04486/3	20/04486/5						Units	Limit of Detection	Method ref
Client Sample No	101	103								
Client Sample ID	BH8	BH8								
Depth to Top	0.20	5.00								
Depth To Bottom		5.50								
Date Sampled	01-Jun-20	02-Jun-20								
Sample Type	Soil - ES	Soil - ES								
Sample Matrix Code	6AE	5A								
Fenthion _A	<0.01	-						mg/kg	0.01	A-T-056
Malathion _A	<0.01	-						mg/kg	0.01	A-T-056
Chlorfenvinphos _A	<0.01	-						mg/kg	0.01	A-T-056
Chlorpyrifos _A	<0.01	-						mg/kg	0.01	A-T-056
Trichloronate _A	<0.01	-						mg/kg	0.01	A-T-056
Prothiofos (Tokuthion) _A	<0.01	-						mg/kg	0.01	A-T-056
Ethion _A	<0.01	-						mg/kg	0.01	A-T-056
Triazophos _A	<0.01	-						mg/kg	0.01	A-T-056
Sulprofos _A	<0.01	-						mg/kg	0.01	A-T-056
Carbophenothion _A	<0.01	-						mg/kg	0.01	A-T-056
Phosalone _A	<0.01	-						mg/kg	0.01	A-T-056
Azinphos-methyl _A	<0.01	-						mg/kg	0.01	A-T-056
Azinphos-ethyl _A	<0.01	-						mg/kg	0.01	A-T-056
Coumaphos _A	<0.01	-						mg/kg	0.01	A-T-056

Envirolab Job Number: 20/04486

Client Project Name: Greenway

Client Project Ref: 563166

Lab Sample ID	20/04486/3	20/04486/5						Units	Limit of Detection	Method ref
Client Sample No	101	103								
Client Sample ID	BH8	BH8								
Depth to Top	0.20	5.00								
Depth To Bottom		5.50								
Date Sampled	01-Jun-20	02-Jun-20								
Sample Type	Soil - ES	Soil - ES								
Sample Matrix Code	6AE	5A								
PAH-16MS										
Acenaphthene _A ^{M#}	0.02	<0.01						mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	<0.01	<0.01						mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	0.08	<0.02						mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	0.26	<0.04						mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	0.21	<0.04						mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	0.27	<0.05						mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	0.10	<0.05						mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	0.10	<0.07						mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	0.29	<0.06						mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	<0.04	<0.04						mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	0.61	<0.08						mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	0.02	<0.01						mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	0.13	<0.03						mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03						mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	0.36	<0.03						mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	0.50	<0.07						mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	2.95	<0.08						mg/kg	0.01	A-T-019s
Phenols (speciated HPLC)										
Phenol _A	<0.2	<0.2						mg/kg	0.2	A-T-050s
Cresols _A	<0.2	<0.2						mg/kg	0.2	A-T-050s
Xylenols _A	<0.2	<0.2						mg/kg	0.2	A-T-050s
Resorcinol _A	<0.2	<0.2						mg/kg	0.2	A-T-050s
Phenols - Total by HPLC _A	<0.2	<0.2						mg/kg	0.2	A-T-050s

Envirolab Job Number: 20/04486

Client Project Name: Greenway

Client Project Ref: 563166

Lab Sample ID	20/04486/3	20/04486/5						Units	Limit of Detection	Method ref
Client Sample No	101	103								
Client Sample ID	BH8	BH8								
Depth to Top	0.20	5.00								
Depth To Bottom		5.50								
Date Sampled	01-Jun-20	02-Jun-20								
Sample Type	Soil - ES	Soil - ES								
Sample Matrix Code	6AE	5A								
Speciated PCB-EC7										
PCB BZ 28 _A ^{M#}	<0.002	<0.002						mg/kg	0.002	A-T-004s
PCB BZ 52 _A ^{M#}	<0.002	<0.002						mg/kg	0.002	A-T-004s
PCB BZ 101 _A ^{M#}	<0.004	<0.004						mg/kg	0.004	A-T-004s
PCB BZ 118 _A ^{M#}	<0.007	<0.007						mg/kg	0.007	A-T-004s
PCB BZ 138 _A ^{M#}	<0.006	<0.006						mg/kg	0.006	A-T-004s
PCB BZ 153 _A ^{M#}	<0.004	<0.004						mg/kg	0.004	A-T-004s
PCB BZ 180 _A ^{M#}	<0.004	<0.004						mg/kg	0.004	A-T-004s
Total Speciated PCB-EC7 _A ^{M#}	<0.007	<0.007						mg/kg	0.002	A-T-004s

Envirolab Job Number: 20/04486

Client Project Name: Greenway

Client Project Ref: 563166

Lab Sample ID	20/04486/3	20/04486/5						Units	Limit of Detection	Method ref
Client Sample No	101	103								
Client Sample ID	BH8	BH8								
Depth to Top	0.20	5.00								
Depth To Bottom		5.50								
Date Sampled	01-Jun-20	02-Jun-20								
Sample Type	Soil - ES	Soil - ES								
Sample Matrix Code	6AE	5A								
TPH CWG										
Ali >C5-C6 _A [#]	<0.01	-						mg/kg	0.01	A-T-022s
Ali >C6-C8 _A [#]	<0.01	-						mg/kg	0.01	A-T-022s
Ali >C8-C10 _A	<1	-						mg/kg	1	A-T-055s
Ali >C10-C12 _A ^{M#}	<1	-						mg/kg	1	A-T-055s
Ali >C12-C16 _A ^{M#}	<1	-						mg/kg	1	A-T-055s
Ali >C16-C21 _A ^{M#}	<1	-						mg/kg	1	A-T-055s
Ali >C21-C35 _A	3	-						mg/kg	1	A-T-055s
Total Aliphatics _A	3	-						mg/kg	1	A-T-055s
Aro >C5-C7 _A [#]	<0.01	-						mg/kg	0.01	A-T-022s
Aro >C7-C8 _A [#]	<0.01	-						mg/kg	0.01	A-T-022s
Aro >C8-C10 _A	<1	-						mg/kg	1	A-T-055s
Aro >C10-C12 _A ^{M#}	<1	-						mg/kg	1	A-T-055s
Aro >C12-C16 _A	<1	-						mg/kg	1	A-T-055s
Aro >C16-C21 _A ^{M#}	2	-						mg/kg	1	A-T-055s
Aro >C21-C35 _A ^{M#}	13	-						mg/kg	1	A-T-055s
Total Aromatics _A	16	-						mg/kg	1	A-T-055s
TPH (Ali & Aro >C5-C35) _A	19	-						mg/kg	1	A-T-055s
MTBE _A [#]	<0.01	-						mg/kg	0.01	A-T-022s

REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.

The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed.

Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.



Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envirolab.co.uk

Client: Structural Soils Limited (Bristol), The Old School , Stillhouse Lane, Bedminster,
Bristol, UK, BS3 4EB

Project No: 20/04486

Project: Greenway

Date Received: 05/06/2020 (am)

Clients Project No: 563166

Cool Box Temperatures (°C): 14.4

Lab Sample ID	20/04486/3
Client Sample No	101
Client Sample ID/Depth	BH8 0.20m
Date Sampled	01/06/20
Deviation Code	
F	✓

Key

F

Maximum holding time exceeded between sampling date and analysis for analytes listed below

HOLDING TIME EXCEEDANCES

Lab Sample ID	20/04486/3
Client Sample No	101
Client Sample ID/Depth	BH8 0.20m
Date Sampled	01/06/20
Sulphide	✓

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Final Test Report

Envirolab Job Number: 20/04658
Issue Number: 1

Date: 25-Jun-20

Client: Structural Soils Limited (Bristol)
The Old School
Stillhouse Lane
Bedminster
Bristol
UK, BS3 4EB

Project Manager: Tom Payne
Project Name: Greenway
Project Ref: 563166
Order No: N/A

Date Samples Received: 10-Jun-20
Date Instructions Received: 11-Jun-20
Date Analysis Completed: 25-Jun-20

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

Prepared by:



Sophie France
Client Service Manager

Approved by:



John Gustafson
Managing Director

Sample Details					Landfill Waste Acceptance Criteria Limits			
Lab Sample ID	Method	ISO17025	MCERTS	20/04658/1				
Client Sample Number				101	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill	
Client Sample ID				BH7				
Depth to Top				0.3				
Depth to Bottom								
Date Sampled				04/06/2020				
Sample Type				Soil - ES				
Sample Matrix Code				6AE				
Solid Waste Analysis								
pH (pH Units) _D	A-T-031	N	N	7.33	-	>6	-	
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.06	-	to be evaluated	to be evaluated	
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	<0.01	-	to be evaluated	to be evaluated	
Loss on Ignition (%) _D	A-T-030	N	N	13	-	-	10	
Total Organic Carbon (%) _D	A-T-032	N	N	7.55	3	5	6	
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N		100	-	-	
Mineral Oil (mg/kg) _A	A-T-007	N	N		500	-	-	
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N		1	-	-	
Sum of BTEX (mg/kg) _A	A-T-022	N	N		6	-	-	
Eluate Analysis				10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
				mg/l	mg/kg			
Arsenic	A-T-025	N	N	0.003	0.030	0.5	2	25
Barium	A-T-025	N	N	0.042	0.420	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.01	0.04	1	5
Chromium	A-T-025	N	N	<0.001	<0.01	0.5	10	70
Copper	A-T-025	N	N	0.010	0.100	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.002	0.020	0.5	10	30
Nickel	A-T-025	N	N	0.003	0.030	0.4	10	40
Lead	A-T-025	N	N	0.016	0.160	0.5	10	50
Antimony	A-T-025	N	N	0.003	0.030	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	<0.01	0.1	0.5	7
Zinc	A-T-025	N	N	0.013	0.130	4	50	200
Chloride	A-T-026	N	N	2	19	800	15000	25000
Fluoride	A-T-026	N	N	0.3	3.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	6	58	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	95	950	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	26.50	265	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	7.4				
Conductivity (µS/cm)	A-T-037	N	N	190				
Mass Sample (kg)				0.2				
Dry Matter (%)	A-T-044	N	N	87.6				
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation								

Sample Details					Landfill Waste Acceptance Criteria Limits			
Lab Sample ID	Method	ISO17025	MCERTS	20/04658/5				
Client Sample Number				105	Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill	
Client Sample ID				BH7				
Depth to Top				2.7				
Depth to Bottom								
Date Sampled				04/06/2020				
Sample Type				Soil - ES				
Sample Matrix Code				5A				
Solid Waste Analysis								
pH (pH Units) _D	A-T-031	N	N	8.56		-	>6	-
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.25		-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.06		-	to be evaluated	to be evaluated
Loss on Ignition (%) _D	A-T-030	N	N	4.9		-	-	10
Total Organic Carbon (%) _D	A-T-032	N	N	0.06		3	5	6
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N			100	-	-
Mineral Oil (mg/kg) _A	A-T-007	N	N			500	-	-
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N			1	-	-
Sum of BTEX (mg/kg) _A	A-T-022	N	N			6	-	-
Eluate Analysis				10:1	10:1	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
				mg/l	mg/kg			
Arsenic	A-T-025	N	N	<0.001	<0.01	0.5	2	25
Barium	A-T-025	N	N	0.006	0.060	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.01	0.04	1	5
Chromium	A-T-025	N	N	<0.001	<0.01	0.5	10	70
Copper	A-T-025	N	N	0.001	0.010	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.001	0.010	0.5	10	30
Nickel	A-T-025	N	N	<0.001	<0.01	0.4	10	40
Lead	A-T-025	N	N	<0.001	<0.01	0.5	10	50
Antimony	A-T-025	N	N	0.002	0.020	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	<0.01	0.1	0.5	7
Zinc	A-T-025	N	N	0.008	0.080	4	50	200
Chloride	A-T-026	N	N	<1.00	<10	800	15000	25000
Fluoride	A-T-026	N	N	1.2	12.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	3	34	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	49	490	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<0.2	<200	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.0				
Conductivity (µS/cm)	A-T-037	N	N	98				
Mass Sample (kg)				0.207				
Dry Matter (%)	A-T-044	N	N	84.4				
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation								

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/04658
Issue Number: 1
Date: 25 June, 2020

Client: Structural Soils Limited (Bristol)
The Old School
Stillhouse Lane
Bedminster
Bristol
UK
BS3 4EB

Project Manager: Tom Payne
Project Name: Greenway
Project Ref: 563166
Order No: N/A
Date Samples Received: 10/06/20
Date Instructions Received: 11/06/20
Date Analysis Completed: 25/06/20

Prepared by:

A handwritten signature in purple ink that reads "Sophie France".

Sophie France
Client Service Manager

Approved by:

A handwritten signature in purple ink that reads "John Gustafson".

John Gustafson
Managing Director

Envirolab Job Number: 20/04658

Client Project Name: Greenway

Client Project Ref: 563166

Lab Sample ID	20/04658/1	20/04658/5						Units	Limit of Detection	Method ref
Client Sample No	101	105								
Client Sample ID	BH7	BH7								
Depth to Top	0.30	2.70								
Depth To Bottom										
Date Sampled	04-Jun-20	04-Jun-20								
Sample Type	Soil - ES	Soil - ES								
Sample Matrix Code	6AE	5A								
% Moisture at <40C _A	12.2	16.1						% w/w	0.1	A-T-044
% Stones >10mm _A	3.3	<0.1						% w/w	0.1	A-T-044
pH _D ^{M#}	7.33	8.56						pH	0.01	A-T-031s
ANC to pH4 _D	0.06	0.25						mol/kg	0.01	A-T-ANCs
ANC to pH6 _D	<0.01	0.06						mol/kg	0.01	A-T-ANCs
Sulphate (acid soluble) _D ^{M#}	930	<200						mg/kg	200	A-T-028s
Cyanide (total) _A ^{M#}	<1	<1						mg/kg	1	A-T-042sTCN
Sulphide _A	<5	<5						mg/kg	5	A-T-S2-s
Loss on ignition (550degC) _D ^{M#}	13.0	4.9						% w/w	0.6	A-T-030s
Organic matter _D ^{M#}	13.1	<0.1						% w/w	0.1	A-T-032 OM
Total Organic Carbon _D ^{M#}	7.55	0.06						% w/w	0.03	A-T-032s
Arsenic _D ^{M#}	3	4						mg/kg	1	A-T-024s
Boron (water soluble) _D ^{M#}	1.4	1.0						mg/kg	1	A-T-027s
Cadmium _D ^{M#}	<0.5	0.6						mg/kg	0.5	A-T-024s
Copper _D ^{M#}	25	15						mg/kg	1	A-T-024s
Chromium _D ^{M#}	27	23						mg/kg	1	A-T-024s
Lead _D ^{M#}	79	21						mg/kg	1	A-T-024s
Mercury _D	<0.17	<0.17						mg/kg	0.17	A-T-024s
Nickel _D ^{M#}	16	62						mg/kg	1	A-T-024s
Selenium _D ^{M#}	<1	<1						mg/kg	1	A-T-024s
Zinc _D ^{M#}	93	43						mg/kg	5	A-T-024s
EPH Total (>C10-C40) _A [#]	371	<10						mg/kg	10	A-T-007s
Chromium (leachable) _A [#]	<1	<1						µg/l	1	A-T-025w
Chromium (hexavalent) (leachable) _A	<0.05	<0.05						mg/l	0.05	A-T-040w
Chromium (trivalent) (leachable)	<0.05	<0.05						mg/l	0.05	Calc

Envirolab Job Number: 20/04658

Client Project Name: Greenway

Client Project Ref: 563166

Lab Sample ID	20/04658/1	20/04658/5						Units	Limit of Detection	Method ref
Client Sample No	101	105								
Client Sample ID	BH7	BH7								
Depth to Top	0.30	2.70								
Depth To Bottom										
Date Sampled	04-Jun-20	04-Jun-20								
Sample Type	Soil - ES	Soil - ES								
Sample Matrix Code	6AE	5A								
Asbestos in Soil (inc. matrix) ^										
Asbestos in soil [#]	NAD	-								A-T-045
Asbestos ACM - Suitable for Water Absorption Test? _D	N/A	-								A-T-045
BTEX										
BTEX - Benzene _A [#]	<0.01	<0.01						mg/kg	0.01	A-T-022s
BTEX - Toluene _A [#]	<0.01	<0.01						mg/kg	0.01	A-T-022s
BTEX - Ethyl Benzene _A [#]	<0.01	<0.01						mg/kg	0.01	A-T-022s
BTEX - m & p Xylene _A [#]	<0.01	<0.01						mg/kg	0.01	A-T-022s
BTEX - o Xylene _A [#]	<0.01	<0.01						mg/kg	0.01	A-T-022s

Envirolab Job Number: 20/04658

Client Project Name: Greenway

Client Project Ref: 563166

Lab Sample ID	20/04658/1	20/04658/5						Units	Limit of Detection	Method ref
Client Sample No	101	105								
Client Sample ID	BH7	BH7								
Depth to Top	0.30	2.70								
Depth To Bottom										
Date Sampled	04-Jun-20	04-Jun-20								
Sample Type	Soil - ES	Soil - ES								
Sample Matrix Code	6AE	5A								
PAH-16MS										
Acenaphthene _A ^{M#}	0.09	<0.01						mg/kg	0.01	A-T-019s
Acenaphthylene _A ^{M#}	0.07	<0.01						mg/kg	0.01	A-T-019s
Anthracene _A ^{M#}	0.44	<0.02						mg/kg	0.02	A-T-019s
Benzo(a)anthracene _A ^{M#}	3.45	<0.04						mg/kg	0.04	A-T-019s
Benzo(a)pyrene _A ^{M#}	3.00	<0.04						mg/kg	0.04	A-T-019s
Benzo(b)fluoranthene _A ^{M#}	3.48	<0.05						mg/kg	0.05	A-T-019s
Benzo(ghi)perylene _A ^{M#}	1.46	<0.05						mg/kg	0.05	A-T-019s
Benzo(k)fluoranthene _A ^{M#}	1.19	<0.07						mg/kg	0.07	A-T-019s
Chrysene _A ^{M#}	3.05	<0.06						mg/kg	0.06	A-T-019s
Dibenzo(ah)anthracene _A ^{M#}	0.35	<0.04						mg/kg	0.04	A-T-019s
Fluoranthene _A ^{M#}	5.99	<0.08						mg/kg	0.08	A-T-019s
Fluorene _A ^{M#}	0.07	<0.01						mg/kg	0.01	A-T-019s
Indeno(123-cd)pyrene _A ^{M#}	1.92	<0.03						mg/kg	0.03	A-T-019s
Naphthalene _A ^{M#}	<0.03	<0.03						mg/kg	0.03	A-T-019s
Phenanthrene _A ^{M#}	1.44	<0.03						mg/kg	0.03	A-T-019s
Pyrene _A ^{M#}	5.58	<0.07						mg/kg	0.07	A-T-019s
Total PAH-16MS _A ^{M#}	31.6	<0.08						mg/kg	0.01	A-T-019s
Phenols (speciated HPLC)										
Phenol _A	<0.2	<0.2						mg/kg	0.2	A-T-050s
Cresols _A	<0.2	<0.2						mg/kg	0.2	A-T-050s
Xylenols _A	<0.2	<0.2						mg/kg	0.2	A-T-050s
Resorcinol _A	<0.2	<0.2						mg/kg	0.2	A-T-050s
Phenols - Total by HPLC _A	<0.2	<0.2						mg/kg	0.2	A-T-050s

Envirolab Job Number: 20/04658

Client Project Name: Greenway

Client Project Ref: 563166

Lab Sample ID	20/04658/1	20/04658/5						Units	Limit of Detection	Method ref
Client Sample No	101	105								
Client Sample ID	BH7	BH7								
Depth to Top	0.30	2.70								
Depth To Bottom										
Date Sampled	04-Jun-20	04-Jun-20								
Sample Type	Soil - ES	Soil - ES								
Sample Matrix Code	6AE	5A								
Speciated PCB-EC7										
PCB BZ 28 _A ^{M#}	<0.002	<0.002						mg/kg	0.002	A-T-004s
PCB BZ 52 _A ^{M#}	<0.002	<0.002						mg/kg	0.002	A-T-004s
PCB BZ 101 _A ^{M#}	<0.004	<0.004						mg/kg	0.004	A-T-004s
PCB BZ 118 _A ^{M#}	<0.007	<0.007						mg/kg	0.007	A-T-004s
PCB BZ 138 _A ^{M#}	<0.006	<0.006						mg/kg	0.006	A-T-004s
PCB BZ 153 _A ^{M#}	<0.004	<0.004						mg/kg	0.004	A-T-004s
PCB BZ 180 _A ^{M#}	<0.004	<0.004						mg/kg	0.004	A-T-004s
Total Speciated PCB-EC7 _A ^{M#}	<0.007	<0.007						mg/kg	0.002	A-T-004s

REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.

The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed.

Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.



Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envirolab.co.uk

Client: Structural Soils Limited (Bristol), The Old School , Stillhouse Lane, Bedminster,
Bristol, UK, BS3 4EB

Project No: 20/04658

Project: Greenway

Date Received: 11/06/2020 (am)

Clients Project No: 563166

Cool Box Temperatures (°C): 14.9

Lab Sample ID	20/04658/1	20/04658/5
Client Sample No	101	105
Client Sample ID/Depth	BH7 0.30m	BH7 2.70m
Date Sampled	04/06/20	04/06/20
Deviation Code		
F	✓	✓

Key

F

Maximum holding time exceeded between sampling date and analysis for analytes listed below

HOLDING TIME EXCEEDANCES

Lab Sample ID	20/04658/1	20/04658/5
Client Sample No	101	105
Client Sample ID/Depth	BH7 0.30m	BH7 2.70m
Date Sampled	04/06/20	04/06/20
Sulphide	✓	✓

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

Certificate of Accreditation



Envirolab

Testing Laboratory No. 1247

**Is accredited in accordance with International Standard ISO/IEC 17025:2017
– General Requirements for the competence of testing and calibration
laboratories.**

This accreditation demonstrates technical competence for a defined scope specified in the schedule to this certificate, and the operation of a management system (refer joint ISO-ILAC-IAF Communiqué dated April 2017). The schedule to this certificate is an essential accreditation document and from time to time may be revised and reissued.

The most recent issue of the schedule of accreditation, which bears the same accreditation number as this certificate, is available from www.ukas.com.

This accreditation is subject to continuing conformity with United Kingdom Accreditation Service requirements.

A handwritten signature in black ink, reading "Matt Gantley", is positioned above a horizontal line.

Matt Gantley, *Chief Executive Officer*
United Kingdom Accreditation Service

Initial Accreditation: December 2, 1992
Certificate Issued: December 9, 2019



Scan QR Code to
verify

APPENDIX F - MONITORING RECORDS

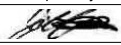
(i) Gas/Groundwater Monitoring Results

IN-SITU WATER MONITORING RESULTS

	Weather	Ground Conditions	Wind Conditions	Air Temperature (°C)	Equipment Used & Remarks
Round 1	-	-	-	-	GA5000
Round 2	-	-	-	-	GA5000
Round 3	-	-	-	-	GA5000
Round 4	-	-	-	-	

Exploratory Position ID	Pipe Ref	Pipe Diameter	Monitoring Round / Test Number	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring	Water Depth (mbgl)	Remarks
BH1	1	19	1 / 1	12.30	10.42	9.75 to 12.30	15/06/2020 09:30	4.52	Weather: Cloudy, Wind Conditions: Light, General Remarks: Pipe very silty at base, purged, no samples taken
BH1	1	19	2 / 1	12.30	11.70	9.75 to 12.30	23/06/2020 09:05	3.70	General Remarks: Purged and sampled.
BH1	1	19	3 / 1	12.30	11.83	9.75 to 12.30	07/07/2020 08:40	2.98	Weather: Sunny, Wind Conditions: Light, Surface Conditions: Dry, General Remarks: Purged and sampled
BH1	2	42	2 / 2	2.00	NDA	1.00 to 2.00	23/06/2020 09:06	---	
BH1	2	42	3 / 2	2.00	0.50	1.00 to 2.00	07/07/2020 08:41	0.05	Weather: Sunny, Wind Conditions: Light, Surface Conditions: Dry
BH1	2	42	4 / 1	2.00	11.69	1.00 to 2.00	04/08/2020	2.79	Weather: Sunny, Surface Conditions: Dry
BH2	1	19	1 / 1	15.80	8.42	11.70 to 15.80	15/06/2020 11:00	-0.08	Weather: Cloudy, Wind Conditions: Light, Surface Conditions: Damp, General Remarks: Pipe very silty at base, purged, no samples taken
BH2	1	19	2 / 1	15.80	10.35	11.70 to 15.80	23/06/2020 15:05	2.35	General Remarks: Purged and sampled.
BH2	1	19	3 / 1	15.80	12.00	11.70 to 15.80	07/07/2020	3.45	Weather: Sunny, Wind Conditions: Light, Surface Conditions: Dry, General Remarks: Purged and sampled.
BH2	1	19	4 / 1	15.80	12.02	11.70 to 15.80	04/08/2020	3.96	Weather: Sunny, Surface Conditions: Dry
BH3	1	19	1 / 1	17.00	9.49	13.50 to 17.00	15/06/2020 12:00	4.19	Weather: Cloudy, Wind Conditions: Light, Surface Conditions: Damp, General Remarks: Unable to take gas readings, bung blocked, Pipe very silty at base, purged, no samples taken.
BH3	1	19	2 / 1	17.00	13.27	13.50 to 17.00	23/06/2020 14:05	3.97	General Remarks: Purged and sampled.
BH3	1	19	3 / 1	17.00	12.55	13.50 to 17.00	07/07/2020 10:55	3.95	Weather: Overcast, Wind Conditions: Light, Surface Conditions: Dry, General Remarks: Purged and sampled.
BH3	1	19	4 / 1	17.00	8.55	13.50 to 17.00	04/08/2020	4.60	Weather: Overcast, Surface Conditions: Dry

Key: NDA denotes 'no data available'.

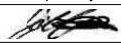
 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
	 Contract:	14/08/20			563166 Page: 1 of 3 

Greenway

IN-SITU WATER MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe Diameter	Monitoring Round / Test Number	Reported Installation Depth (m)	Measured Installation Depth (m)	Response Zone	Date & Time of Monitoring	Water Depth (m)	Remarks
BH4	1	19	1 / 1	15.00	3.00	13.00 to 15.00	15/06/2020 13:00	2.00	General Remarks: No gas readings taken - bung not sealed in pipe. Hole purged dry.
BH4	1	19	2 / 1	15.00	13.10	13.00 to 15.00	23/06/2020 13:20	4.40	General Remarks: Purged and sampled
BH4	1	19	3 / 1	15.00	13.10	13.00 to 15.00	07/07/2020 11:20	4.40	
BH4	1	19	4 / 1	15.00	10.05	13.00 to 15.00	04/08/2020	4.19	
BH5	1	19	1 / 1	19.00	19.00	18.70 to 19.00	15/06/2020 17:28	4.97	Weather: Cloudy, Wind Conditions: Light, Surface Conditions: Dry, General Remarks: Purged dry.
BH5	1	19	2 / 1	19.00	18.78	18.70 to 19.00	23/06/2020 10:50	5.41	General Remarks: Purged and sampled
BH5	1	19	3 / 1	19.00	18.85	18.70 to 19.00	07/07/2020 12:15	8.35	Weather: Overcast, Wind Conditions: Light, Surface Conditions: Dry
BH5	1	19	4 / 1	19.00	18.75	18.70 to 19.00	04/08/2020	6.78	Weather: Overcast, Surface Conditions: Dry
BH6	1	19	1 / 1	16.00	16.80	15.70 to 16.00	15/06/2020 16:00	4.65	Weather: Cloudy, Wind Conditions: Light, Surface Conditions: Dry
BH6	1	19	2 / 1	16.00	16.95	15.70 to 16.00	23/06/2020 09:03	3.20	General Remarks: Purged and sampled.
BH6	1	19	3 / 1	16.00	16.70	15.70 to 16.00	07/07/2020 09:00	3.35	Weather: Overcast, Wind Conditions: Light, Surface Conditions: Dry
BH6	1	19	4 / 1	16.00	16.87	15.70 to 16.00	04/08/2020	4.77	Weather: Overcast, Surface Conditions: Dry
BH6	2	42	2 / 2	5.00	4.75	1.00 to 5.00	23/06/2020 09:04	4.70	
BH6	2	42	3 / 2	5.00	4.60	1.00 to 5.00	07/07/2020 09:01	4.50	Weather: Overcast, Wind Conditions: Light, Surface Conditions: Dry
BH7	1	19	1 / 1	17.00	16.30	16.70 to 17.00	15/06/2020 15:00	5.10	Weather: Cloudy, Wind Conditions: Light, Surface Conditions: Dry
BH7	1	19	2 / 1	17.00	16.42	16.70 to 17.00	23/06/2020 10:33	4.70	General Remarks: Purged and sampled.
BH7	1	19	3 / 1	17.00	16.50	16.70 to 17.00	07/07/2020	5.20	Weather: Overcast, Wind Conditions: Light, Surface Conditions: Dry
BH7	1	19	4 / 1	17.00	16.44	16.70 to 17.00	04/08/2020	4.74	Weather: Overcast, Surface Conditions: Dry
BH8	1	32	1 / 1	5.00	18.00	1.00 to 5.00	15/06/2020 14:00	8.43	Weather: Cloudy, Wind Conditions: Light, Surface Conditions: Dry
BH8	1	32	2 / 1	5.00	18.12	1.00 to 5.00	23/06/2020 09:00	6.37	General Remarks: Purged and sampled.
BH8	1	32	3 / 1	5.00	17.92	1.00 to 5.00	07/07/2020 13:30	6.37	Weather: Overcast, Wind Conditions: Light, Surface Conditions: Dry

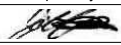
Key: NDA denotes 'no data available'.

 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
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IN-SITU WATER MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe Diameter	Monitoring Round / Test Number	Reported Installation Depth (m)	Measured Installation Depth (m)	Response Zone	Date & Time of Monitoring	Water Depth (m)	Remarks
BH8	1	32	4 / 1	5.00	17.90	1.00 to 5.00	04/08/2020	6.40	Weather: Overcast, Surface Conditions: Dry
BH8	2	19	2 / 2	18.50	4.80	13.50 to 18.50	23/06/2020 09:01	1.90	
BH8	2	19	3 / 2	18.50	4.62	13.50 to 18.50	07/07/2020 13:31	2.77	Weather: Overcast, Wind Conditions: Light, Surface Conditions: Dry

Key: NDA denotes 'no data available'.

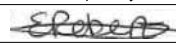
 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
		14/08/20			563166
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IN-SITU GAS MONITORING RESULTS

	Start Date	End Date	Previous	Pressures	Start	End	Equipment Used & Remarks
Round 1	15/06/2020	16/06/2020	Constant	Falling	1011	1009	GA5000 Summary: Gas + Water
Round 2	23/06/2020	23/06/2020	Constant	Constant	1021	1020	GA5000 Summary: Gas + Water
Round 3	07/07/2020	07/07/2020	Constant	Falling	1018	1017	GA5000 Summary: Gas + Water
Round 4	04/08/2020	04/08/2020	Constant	Fluctuating	1014	1014	Summary: Gas & Water

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH1	1	19	1	12.30	---	9.75 to 12.30	16/06/2020 09:31:00	1018	1011	0.2 _(I)	-	-	-	-	-	-	-	-
BH1	1	19	1		---	9.75 to 12.30	30 secs	-	-	0.2 _(SS)	-	-	-	-	-	-	-	-
BH1	1	19	1 (2)	12.30	---	9.75 to 12.30	16/06/2020 09:35:00	-	-	-	-	0.9	0.0	20.0	0.0	-	16	0
BH1	1	19	1 (2)		---	9.75 to 12.30	30 secs	-	-	-	-	0.9	0.0	16.2	0.0	-	26	0
BH1	1	19	1 (2)		---	9.75 to 12.30	60 secs	-	-	-	-	1.0	0.0	15.2	0.0	-	27	0
BH1	1	19	1 (2)		---	9.75 to 12.30	90 secs	-	-	-	-	0.9	0.0	15.1	0.0	-	24	0
BH1	1	19	1 (2)		---	9.75 to 12.30	120 secs	-	-	-	-	0.9	0.0	15.2	0.0	-	21	0
BH1	1	19	1 (2)		---	9.75 to 12.30	180 secs	-	-	-	-	0.9	0.0	15.2	0.0	-	18	0
BH1	1	19	1 (2)		---	9.75 to 12.30	240 secs	-	-	-	-	0.9	0.0	15.3	0.0	-	15	0
BH1	1	19	1 (2)		---	9.75 to 12.30	300 secs	-	-	-	-	0.9	0.0	15.4	0.0	-	13	0
BH1	1	19	1 (3)	12.30	11.69	9.75 to 12.30	16/06/2020 09:40:30	-	-	-	-	-	-	-	-	-	-	-
BH1	2	42	1 (4)	2.00	---	1.00 to 2.00	16/06/2020 10:53:00	1010	1011	0.0 _(I)	-	-	-	-	-	-	-	-
BH1	2	42	1 (4)		---	1.00 to 2.00	30 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH1	2	42	1 (5)	2.00	---	1.00 to 2.00	16/06/2020 10:54:00	-	-	-	-	0.0	0.0	20.7	0.0	-	0	2
BH1	2	42	1 (5)		---	1.00 to 2.00	30 secs	-	-	-	-	0.0	0.0	20.8	0.0	-	0	2
BH1	2	42	1 (5)	2.00	---	1.00 to 2.00	16/06/2020 10:55:00	-	-	-	-	0.0	0.0	20.8	0.0	-	0	2
BH1	2	42	1 (5)		---	1.00 to 2.00	60 secs	-	-	-	-	0.0	0.0	20.8	0.0	-	0	2
BH1	2	42	1 (5)		---	1.00 to 2.00	90 secs	-	-	-	-	0.0	0.0	20.8	0.0	-	0	2

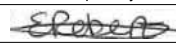
Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
		14/08/20			563166
Contract: Greenway					Page: 1 of 22 

IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH1	2	42	1 (5)		---	1.00 to 2.00	120 secs	-	-	-	-	0.0	0.0	20.8	0.0	-	0	2
BH1	2	42	1 (5)		---	1.00 to 2.00	180 secs	-	-	-	-	0.0	0.0	20.9	0.0	-	0	2
BH1	2	42	1 (5)		---	1.00 to 2.00	240 secs	-	-	-	-	0.0	0.0	20.9	0.0	-	0	2
BH1	2	42	1 (5)		---	1.00 to 2.00	2100 secs	-	-	-	-	0.0	0.0	22.1	0.0	-	0	2
BH1	2	42	1 (6)	2.00	1.10	1.00 to 2.00	16/06/2020 11:29:30	-	-	-	0.60	-	-	-	-	0.0	-	-
BH1	1	19	2	12.30	---	9.75 to 12.30	23/06/2020 16:03:00	1055	1019	0.0 _(I)	-	-	-	-	-	-	-	-
BH1	1	19	2		---	9.75 to 12.30	30 secs	-	-	0.1 _(SS)	-	-	-	-	-	-	-	-
BH1	1	19	2 (2)	12.30	---	9.75 to 12.30	23/06/2020 16:07:00	-	-	-	-	0.0	0.0	21.3	0.0	0.0	3	0
BH1	1	19	2 (2)		---	9.75 to 12.30	15 secs	-	-	-	-	0.2	0.0	20.7	0.0	-	6	0
BH1	1	19	2 (2)		---	9.75 to 12.30	30 secs	-	-	-	-	0.2	0.0	20.5	0.0	-	7	0
BH1	1	19	2 (2)		---	9.75 to 12.30	60 secs	-	-	-	-	0.2	0.0	20.4	0.0	-	8	0
BH1	1	19	2 (2)		---	9.75 to 12.30	90 secs	-	-	-	-	0.2	0.0	20.3	0.0	-	8	0
BH1	1	19	2 (2)		---	9.75 to 12.30	120 secs	-	-	-	-	0.2	0.0	20.3	0.0	-	8	0
BH1	1	19	2 (2)		---	9.75 to 12.30	180 secs	-	-	-	-	0.2	0.0	20.2	0.0	-	8	0
BH1	1	19	2 (2)		---	9.75 to 12.30	240 secs	-	-	-	-	0.2	0.0	20.2	0.0	-	8	0
BH1	1	19	2 (2)		---	9.75 to 12.30	300 secs	-	-	-	-	0.2	0.0	20.2	0.0	-	8	0
BH1	1	19	2 (2)		---	9.75 to 12.30	360 secs	-	-	-	-	0.2	0.0	20.9	0.0	-	6	0
BH1	1	19	2 (3)	12.30	11.69	9.75 to 12.30	23/06/2020 16:21:00	-	-	-	3.69	-	-	-	-	-	-	-
BH1	2	42	2 (4)	2.00	---	1.00 to 2.00	23/06/2020 16:22:00	1020	1019	0.1 _(I)	-	-	-	-	-	-	-	-
BH1	2	42	2 (4)		---	1.00 to 2.00	30 secs	-	-	0.2 _(SS)	-	-	-	-	-	-	-	-
BH1	2	42	2 (5)	2.00	---	1.00 to 2.00	23/06/2020 16:25:00	-	-	-	-	0.0	0.0	21.2	0.0	0.0	3	0
BH1	2	42	2 (5)		---	1.00 to 2.00	15 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	4	0
BH1	2	42	2 (5)		---	1.00 to 2.00	30 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	3	0
BH1	2	42	2 (5)		---	1.00 to 2.00	60 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	3	0
BH1	2	42	2 (5)		---	1.00 to 2.00	90 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	3	0

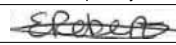
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Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH1	2	42	2 (5)		---	1.00 to 2.00	120 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	3	0
BH1	2	42	2 (5)		---	1.00 to 2.00	180 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	3	0
BH1	2	42	2 (5)		---	1.00 to 2.00	240 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	3	0
BH1	2	42	2 (5)		---	1.00 to 2.00	300 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	3	0
BH1	2	42	2 (5)		---	1.00 to 2.00	360 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	4	0
BH1	2	42	2 (6)	2.00	0.07	1.00 to 2.00	23/06/2020 16:34:00	-	-	-	-0.02	-	-	-	-	-	-	-
BH1	1	19	3	12.30	---	9.75 to 12.30	07/07/2020 09:01:00	1019	1019	0.0 _(l)	-	-	-	-	-	-	-	-
BH1	1	19	3		---	9.75 to 12.30	30 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH1	1	19	3 (2)	12.30	---	9.75 to 12.30	07/07/2020 09:04:00	-	-	-	-	0.4	0.0	20.7	0.0	-	3	0
BH1	1	19	3 (2)		---	9.75 to 12.30	30 secs	-	-	-	-	0.4	0.0	20.4	0.0	-	2	0
BH1	1	19	3 (2)		---	9.75 to 12.30	60 secs	-	-	-	-	0.4	0.0	20.4	0.0	-	2	0
BH1	1	19	3 (2)		---	9.75 to 12.30	90 secs	-	-	-	-	0.4	0.0	20.4	0.0	-	2	0
BH1	1	19	3 (2)		---	9.75 to 12.30	120 secs	-	-	-	-	0.4	0.0	20.4	0.0	-	2	0
BH1	1	19	3 (2)		---	9.75 to 12.30	180 secs	-	-	-	-	0.4	0.0	20.4	0.0	-	2	0
BH1	1	19	3 (2)		---	9.75 to 12.30	240 secs	-	-	-	-	0.4	0.0	20.4	0.0	-	2	0
BH1	1	19	3 (2)		---	9.75 to 12.30	300 secs	-	-	-	-	0.4	0.0	20.4	0.0	-	2	0
BH1	1	19	3 (2)		---	9.75 to 12.30	840 secs	-	-	-	-	0.1	0.0	21.0	0.0	0.0	0	0
BH1	1	19	3 (3)	12.30	11.88	9.75 to 12.30	07/07/2020 09:16:00	-	-	-	3.06	-	-	-	-	-	-	-
BH1	2	42	4	2.00	---	1.00 to 2.00	04/08/2020 09:26:00	1024	1014	0.0 _(l)	-	-	-	-	-	-	-	-
BH1	2	42	4		---	1.00 to 2.00	30 secs	-	-	1.5 _(SS)	-	-	-	-	-	-	-	-
BH1	2	42	4 (2)	2.00	---	1.00 to 2.00	04/08/2020 09:27:00	-	-	-	-	0.5	0.0	20.4	0.0	0.0 _(l)	1	0
BH1	2	42	4 (2)		---	1.00 to 2.00	15 secs	-	-	-	-	0.5	0.0	20.3	0.0	0.0 _(SS)	2	0
BH1	2	42	4 (2)		---	1.00 to 2.00	30 secs	-	-	-	-	0.5	0.0	20.3	0.0	-	2	0
BH1	2	42	4 (2)		---	1.00 to 2.00	60 secs	-	-	-	-	0.5	0.0	20.3	0.0	-	2	0
BH1	2	42	4 (2)		---	1.00 to 2.00	90 secs	-	-	-	-	0.5	0.0	20.3	0.0	-	2	0

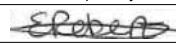
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Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH1	2	42	4 (2)		---	1.00 to 2.00	120 secs	-	-	-	-	0.5	0.0	20.3	0.0	-	2	0
BH1	2	42	4 (2)		---	1.00 to 2.00	180 secs	-	-	-	-	0.5	0.0	20.3	0.0	-	2	0
BH1	2	42	4 (2)		---	1.00 to 2.00	240 secs	-	-	-	-	0.5	0.0	20.3	0.0	-	2	0
BH1	2	42	4 (2)		---	1.00 to 2.00	300 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	0	0
BH1	2	42	4 (3)	2.00	11.79	1.00 to 2.00	04/08/2020 09:33:00	-	-	-	2.89	-	-	-	-	-	-	-
BH1	1	19	4	12.30	---	9.75 to 12.30	04/08/2020 09:42:00	1014	1014	0.0 _(I)	-	-	-	-	-	-	-	-
BH1	1	19	4		---	9.75 to 12.30	30 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH1	1	19	4 (2)	12.30	---	9.75 to 12.30	04/08/2020 09:45:00	-	-	-	-	0.1	0.2	21.3	4.0	0.9	1	0
BH1	1	19	4 (2)		---	9.75 to 12.30	15 secs	-	-	-	-	0.1	0.2	21.3	4.0	19.0 _(I)	0	0
BH1	1	19	4 (2)		---	9.75 to 12.30	30 secs	-	-	-	-	0.1	0.0	21.3	0.0	1.5 _(SS)	0	0
BH1	1	19	4 (2)		---	9.75 to 12.30	60 secs	-	-	-	-	0.1	0.0	21.3	0.0	-	0	0
BH1	1	19	4 (2)		---	9.75 to 12.30	90 secs	-	-	-	-	0.1	0.0	21.3	0.0	-	0	0
BH1	1	19	4 (2)		---	9.75 to 12.30	120 secs	-	-	-	-	0.1	0.0	21.3	0.0	-	0	0
BH1	1	19	4 (2)		---	9.75 to 12.30	180 secs	-	-	-	-	0.1	0.0	21.3	0.0	-	0	0
BH1	1	19	4 (2)		---	9.75 to 12.30	240 secs	-	-	-	-	0.1	0.0	21.4	0.0	-	0	0
BH1	1	19	4 (2)		---	9.75 to 12.30	300 secs	-	-	-	-	0.0	0.0	21.4	0.0	-	0	0
BH1	1	19	4 (3)	12.30	0.19	9.75 to 12.30	04/08/2020 09:51:00	-	-	-	0.09	-	-	-	-	-	-	-
BH2	1	19	2	15.80	---	11.70 to 15.80	23/06/2020 14:52:00	1022	1021	0.0 _(I)	-	-	-	-	-	-	-	-
BH2	1	19	2		---	11.70 to 15.80	30 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH2	1	19	2 (2)	15.80	---	11.70 to 15.80	23/06/2020 14:56:00	-	-	-	-	0.0	0.0	21.3	0.0	0.0	3	0
BH2	1	19	2 (2)		---	11.70 to 15.80	15 secs	-	-	-	-	0.0	0.0	21.1	0.0	-	32	0
BH2	1	19	2 (2)		---	11.70 to 15.80	30 secs	-	-	-	-	0.2	0.0	20.6	0.0	-	40	0
BH2	1	19	2 (2)		---	11.70 to 15.80	60 secs	-	-	-	-	0.2	0.0	20.3	0.0	-	24	0
BH2	1	19	2 (2)		---	11.70 to 15.80	90 secs	-	-	-	-	0.2	0.0	20.2	0.0	-	18	0

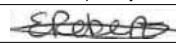
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Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH2	1	19	2 (2)		---	11.70 to 15.80	120 secs	-	-	-	-	0.2	0.0	20.3	0.0	-	17	0
BH2	1	19	2 (2)		---	11.70 to 15.80	180 secs	-	-	-	-	0.2	0.0	20.3	0.0	-	15	0
BH2	1	19	2 (2)		---	11.70 to 15.80	240 secs	-	-	-	-	0.2	0.0	20.3	0.0	-	13	0
BH2	1	19	2 (2)		---	11.70 to 15.80	300 secs	-	-	-	-	0.2	0.0	20.4	0.0	-	12	0
BH2	1	19	2 (2)		---	11.70 to 15.80	360 secs	-	-	-	-	0.2	0.0	21.3	0.0	-	3	0
BH2	1	19	2 (3)	15.80	10.40	11.70 to 15.80	23/06/2020 15:05:00	-	-	-	2.40	-	-	-	-	-	-	-
BH2	1	19	3	15.80	---	11.70 to 15.80	07/07/2020 09:34:00	1018	1018	0.0 _(I)	-	-	-	-	-	-	-	-
BH2	1	19	3		---	11.70 to 15.80	30 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH2	1	19	3 (2)	15.80	---	11.70 to 15.80	07/07/2020 09:35:00	-	-	-	-	0.1	0.0	21.1	0.0	-	1	0
BH2	1	19	3 (2)		---	11.70 to 15.80	30 secs	-	-	-	-	0.1	0.0	21.1	0.0	-	1	0
BH2	1	19	3 (2)		---	11.70 to 15.80	60 secs	-	-	-	-	0.1	0.0	21.1	0.0	-	1	0
BH2	1	19	3 (2)		---	11.70 to 15.80	90 secs	-	-	-	-	0.1	0.0	21.2	0.0	-	1	0
BH2	1	19	3 (2)		---	11.70 to 15.80	120 secs	-	-	-	-	0.1	0.0	21.2	0.0	-	1	0
BH2	1	19	3 (2)		---	11.70 to 15.80	150 secs	-	-	-	-	0.1	0.0	21.2	0.0	-	1	0
BH2	1	19	3 (2)		---	11.70 to 15.80	180 secs	-	-	-	-	0.1	0.0	21.1	0.0	-	1	0
BH2	1	19	3 (2)		---	11.70 to 15.80	240 secs	-	-	-	-	0.1	0.0	21.1	0.0	-	1	0
BH2	1	19	3 (2)		---	11.70 to 15.80	300 secs	-	-	-	-	0.1	0.0	21.1	0.0	-	1	0
BH2	1	19	3 (2)		---	11.70 to 15.80	600 secs	-	-	-	-	0.1	0.0	21.1	0.0	-	1	0
BH2	1	19	3 (3)	15.80	11.98	11.70 to 15.80	07/07/2020 09:45:00	-	-	-	3.48	-	-	-	-	0.0	-	-
BH2	1	19	4	15.80	---	11.70 to 15.80	04/08/2020 10:02:00	1014	1014	0.0 _(I)	-	-	-	-	-	-	-	-
BH2	1	19	4		---	11.70 to 15.80	30 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH2	1	19	4 (2)	15.80	---	11.70 to 15.80	04/08/2020 10:05:00	-	-	-	-	0.6	0.0	16.1	0.0	1.5	8	0
BH2	1	19	4 (2)		---	11.70 to 15.80	15 secs	-	-	-	-	0.6	0.0	15.4	0.0	0.0 _(I)	10	0
BH2	1	19	4 (2)		---	11.70 to 15.80	30 secs	-	-	-	-	0.4	0.0	12.3	0.0	0.0 _(SS)	8	0
BH2	1	19	4 (2)		---	11.70 to 15.80	60 secs	-	-	-	-	0.3	0.0	10.7	0.0	-	6	0

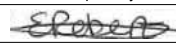
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IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH2	1	19	4 (2)		---	11.70 to 15.80	90 secs	-	-	-	-	0.2	0.0	9.6	0.0	-	5	0
BH2	1	19	4 (2)		---	11.70 to 15.80	120 secs	-	-	-	-	0.2	0.0	8.1	0.0	-	4	0
BH2	1	19	4 (2)		---	11.70 to 15.80	180 secs	-	-	-	-	0.2	0.0	8.1	0.0	-	3	0
BH2	1	19	4 (2)		---	11.70 to 15.80	240 secs	-	-	-	-	0.2	0.0	8.2	0.0	-	3	0
BH2	1	19	4 (2)		---	11.70 to 15.80	300 secs	-	-	-	-	0.1	0.0	15.9	0.0	-	2	0
BH2	1	19	4 (3)	15.80	12.12	11.70 to 15.80	04/08/2020 10:11:00	-	-	-	4.06	-	-	-	-	-	-	-
BH3	1	19	2	17.00	---	13.50 to 17.00	23/06/2020 13:50:00	1021	1020	0.0 _(I)	-	-	-	-	-	-	-	-
BH3	1	19	2		---	13.50 to 17.00	30 secs	-	-	0.1 _(SS)	-	-	-	-	-	-	-	-
BH3	1	19	2 (2)	17.00	---	13.50 to 17.00	23/06/2020 13:52:00	-	-	-	-	0.0	0.0	20.6	0.0	0.0	3	0
BH3	1	19	2 (2)		---	13.50 to 17.00	15 secs	-	-	-	-	0.0	0.0	20.4	0.0	-	6	0
BH3	1	19	2 (2)		---	13.50 to 17.00	30 secs	-	-	-	-	0.0	0.0	20.4	0.0	-	5	0
BH3	1	19	2 (2)		---	13.50 to 17.00	60 secs	-	-	-	-	0.0	0.0	20.4	0.0	-	3	0
BH3	1	19	2 (2)		---	13.50 to 17.00	90 secs	-	-	-	-	0.0	0.0	20.4	0.0	-	3	0
BH3	1	19	2 (2)		---	13.50 to 17.00	120 secs	-	-	-	-	0.0	0.0	20.4	0.0	-	3	0
BH3	1	19	2 (2)		---	13.50 to 17.00	180 secs	-	-	-	-	0.0	0.0	20.3	0.0	-	3	0
BH3	1	19	2 (2)		---	13.50 to 17.00	240 secs	-	-	-	-	0.0	0.0	20.3	0.0	-	3	0
BH3	1	19	2 (2)		---	13.50 to 17.00	300 secs	-	-	-	-	0.0	0.0	20.2	0.0	-	3	1
BH3	1	19	2 (2)		---	13.50 to 17.00	360 secs	-	-	-	-	0.0	0.0	20.3	0.0	-	3	0
BH3	1	19	2 (3)	17.00	13.35	13.50 to 17.00	23/06/2020 14:02:00	-	-	-	4.45	-	-	-	-	-	-	-
BH3	1	19	3	17.00	---	13.50 to 17.00	07/07/2020 09:56:00	1018	1018	0.0 _(I)	-	-	-	-	-	-	-	-
BH3	1	19	3		---	13.50 to 17.00	30 secs	-	-	-0.2 _(SS)	-	-	-	-	-	-	-	-
BH3	1	19	3 (2)	17.00	---	13.50 to 17.00	07/07/2020 09:57:00	-	-	-	-	0.1	0.0	21.0	0.0	-	1	0
BH3	1	19	3 (2)		---	13.50 to 17.00	60 secs	-	-	-	-	0.4	0.0	19.4	0.0	-	11	0
BH3	1	19	3 (2)		---	13.50 to 17.00	75 secs	-	-	-	-	0.4	0.0	19.1	0.0	-	15	0

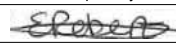
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Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH3	1	19	3 (2)		---	13.50 to 17.00	90 secs	-	-	-	-	0.4	0.0	18.7	0.0	-	14	0
BH3	1	19	3 (2)		---	13.50 to 17.00	120 secs	-	-	-	-	0.4	0.0	15.9	0.0	-	12	0
BH3	1	19	3 (2)		---	13.50 to 17.00	150 secs	-	-	-	-	0.4	0.0	15.3	0.0	-	11	0
BH3	1	19	3 (2)		---	13.50 to 17.00	180 secs	-	-	-	-	0.4	0.0	15.3	0.0	-	10	0
BH3	1	19	3 (2)		---	13.50 to 17.00	240 secs	-	-	-	-	0.3	0.0	15.4	0.0	-	8	0
BH3	1	19	3 (2)		---	13.50 to 17.00	300 secs	-	-	-	-	0.3	0.0	15.4	0.0	-	7	0
BH3	1	19	3 (2)		---	13.50 to 17.00	780 secs	-	-	-	-	0.0	0.0	19.1	0.0	-	4	0
BH3	1	19	3 (3)	17.00	11.98	13.50 to 17.00	07/07/2020 10:10:00	-	-	-	3.48	-	-	-	-	0.0	-	-
BH3	1	19	4	17.00	---	13.50 to 17.00	04/08/2020 10:23:00	1013	1013	0.0 _(I)	-	-	-	-	-	-	-	-
BH3	1	19	4		---	13.50 to 17.00	30 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH3	1	19	4 (2)	17.00	---	13.50 to 17.00	04/08/2020 10:26:00	-	-	-	-	0.1	0.0	20.9	0.0	0.0	2	0
BH3	1	19	4 (2)		---	13.50 to 17.00	15 secs	-	-	-	-	0.1	0.0	20.9	0.0	0.0 _(I)	2	0
BH3	1	19	4 (2)		---	13.50 to 17.00	30 secs	-	-	-	-	0.1	0.0	20.9	0.0	0.0 _(SS)	2	0
BH3	1	19	4 (2)		---	13.50 to 17.00	60 secs	-	-	-	-	0.1	0.0	20.8	0.0	-	3	0
BH3	1	19	4 (2)		---	13.50 to 17.00	90 secs	-	-	-	-	0.1	0.0	20.8	0.0	-	3	0
BH3	1	19	4 (2)		---	13.50 to 17.00	120 secs	-	-	-	-	0.1	0.0	20.8	0.0	-	2	0
BH3	1	19	4 (2)		---	13.50 to 17.00	180 secs	-	-	-	-	0.1	0.0	20.8	0.0	-	2	0
BH3	1	19	4 (2)		---	13.50 to 17.00	240 secs	-	-	-	-	0.1	0.0	20.8	0.0	-	2	0
BH3	1	19	4 (2)		---	13.50 to 17.00	300 secs	-	-	-	-	0.0	0.0	21.3	0.0	-	1	0
BH3	1	19	4 (3)	17.00	8.65	13.50 to 17.00	04/08/2020 10:36:00	-	-	-	4.70	-	-	-	-	-	-	-
BH4	1	19	2	15.00	---	13.00 to 15.00	23/06/2020 13:00:00	1022	1021	0.0 _(I)	-	-	-	-	-	-	-	-
BH4	1	19	2		---	13.00 to 15.00	30 secs	-	-	0.2 _(SS)	-	-	-	-	-	-	-	-
BH4	1	19	2 (2)	15.00	---	13.00 to 15.00	23/06/2020 13:04:00	-	-	-	-	0.0	0.0	21.0	0.0	0.0	2	0
BH4	1	19	2 (2)		---	13.00 to 15.00	15 secs	-	-	-	-	0.0	0.0	21.0	0.0	-	3	0

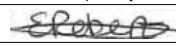
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IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH4	1	19	2 (2)		---	13.00 to 15.00	30 secs	-	-	-	-	0.0	0.0	21.0	0.0	-	2	0
BH4	1	19	2 (2)		---	13.00 to 15.00	60 secs	-	-	-	-	0.0	0.0	21.0	0.0	-	2	0
BH4	1	19	2 (2)		---	13.00 to 15.00	90 secs	-	-	-	-	0.0	0.0	21.0	0.0	-	2	0
BH4	1	19	2 (2)		---	13.00 to 15.00	120 secs	-	-	-	-	0.0	0.0	21.0	0.0	-	2	0
BH4	1	19	2 (2)		---	13.00 to 15.00	180 secs	-	-	-	-	0.0	0.0	21.0	0.0	-	2	0
BH4	1	19	2 (2)		---	13.00 to 15.00	240 secs	-	-	-	-	0.0	0.0	20.9	0.0	-	2	0
BH4	1	19	2 (2)		---	13.00 to 15.00	300 secs	-	-	-	-	0.0	0.0	20.9	0.0	-	2	0
BH4	1	19	2 (2)		---	13.00 to 15.00	360 secs	-	-	-	-	0.0	0.0	20.8	0.0	-	2	0
BH4	1	19	2 (3)	15.00	13.15	13.00 to 15.00	23/06/2020 13:15:00	-	-	-	4.45	-	-	-	-	-	-	-
BH4	1	19	3	15.00	---	13.00 to 15.00	07/07/2020 10:46:00	1017	1017	0.0 _(I)	-	-	-	-	-	-	-	-
BH4	1	19	3		---	13.00 to 15.00	30 secs	-	-	0.2 _(SS)	-	-	-	-	-	-	-	-
BH4	1	19	3 (2)	15.00	---	13.00 to 15.00	07/07/2020 10:47:00	-	-	-	-	0.0	0.0	21.0	0.0	-	1	0
BH4	1	19	3 (2)		---	13.00 to 15.00	15 secs	-	-	-	-	0.1	0.0	20.8	0.0	-	3	0
BH4	1	19	3 (2)		---	13.00 to 15.00	30 secs	-	-	-	-	0.1	0.0	20.8	0.0	-	2	0
BH4	1	19	3 (2)		---	13.00 to 15.00	60 secs	-	-	-	-	0.1	0.0	20.9	0.0	-	2	0
BH4	1	19	3 (2)		---	13.00 to 15.00	90 secs	-	-	-	-	0.1	0.0	20.9	0.0	-	1	0
BH4	1	19	3 (2)		---	13.00 to 15.00	120 secs	-	-	-	-	0.0	0.0	20.9	0.0	-	1	0
BH4	1	19	3 (2)		---	13.00 to 15.00	180 secs	-	-	-	-	0.0	0.0	20.9	0.0	-	1	0
BH4	1	19	3 (2)		---	13.00 to 15.00	240 secs	-	-	-	-	0.0	0.0	20.9	0.0	-	1	0
BH4	1	19	3 (2)		---	13.00 to 15.00	300 secs	-	-	-	-	0.0	0.0	20.9	0.0	-	1	0
BH4	1	19	3 (2)		---	13.00 to 15.00	660 secs	-	-	-	-	0.0	0.0	21.0	0.0	0.0	1	0
BH4	1	19	3 (3)	15.00	12.65	13.00 to 15.00	07/07/2020 10:58:00	-	-	-	4.05	-	-	-	-	-	-	-
BH4	1	19	4	15.00	---	13.00 to 15.00	04/08/2020 10:44:00	-	-	0.0 _(I)	-	-	-	-	-	-	-	-
BH4	1	19	4		---	13.00 to 15.00	30 secs	1015	1014	0.0 _(SS)	-	-	-	-	-	-	-	-
BH4	1	19	4 (2)	15.00	---	13.00 to 15.00	04/08/2020 10:45:00	-	-	-	-	0.0	0.0	21.1	0.0	0.0	3	0

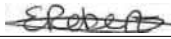
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IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH4	1	19	4 (2)		---	13.00 to 15.00	15 secs	-	-	-	-	0.0	0.0	21.2	0.0	0.0 _(I)	2	0
BH4	1	19	4 (2)		---	13.00 to 15.00	30 secs	-	-	-	-	0.0	0.0	21.2	0.0	0.0 _(SS)	1	0
BH4	1	19	4 (2)		---	13.00 to 15.00	60 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	1	0
BH4	1	19	4 (2)		---	13.00 to 15.00	90 secs	-	-	-	-	0.0	0.0	21.1	0.0	-	1	0
BH4	1	19	4 (2)		---	13.00 to 15.00	120 secs	-	-	-	-	0.0	0.0	21.1	0.0	-	1	0
BH4	1	19	4 (2)		---	13.00 to 15.00	180 secs	-	-	-	-	0.0	0.0	21.1	0.0	-	1	0
BH4	1	19	4 (2)		---	13.00 to 15.00	240 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	1	0
BH4	1	19	4 (2)		---	13.00 to 15.00	300 secs	-	-	-	-	0.0	0.0	21.3	0.0	-	1	0
BH4	1	19	4 (3)	15.00	10.62	13.00 to 15.00	04/08/2020 10:51:00	-	-	-	4.81	-	-	-	-	-	-	-
BH5	1	19	2	19.00	---	18.70 to 19.00	23/06/2020 10:36:00	1022	1021	0.0 _(I)	-	-	-	-	-	-	-	-
BH5	1	19	2		---	18.70 to 19.00	30 secs	-	-	0.1 _(SS)	-	-	-	-	-	-	-	-
BH5	1	19	2 (2)	19.00	---	18.70 to 19.00	23/06/2020 10:39:00	-	-	-	-	0.0	0.0	20.9	0.0	0.0	1	0
BH5	1	19	2 (2)		---	18.70 to 19.00	15 secs	-	-	-	-	0.1	0.0	20.7	0.0	-	83	0
BH5	1	19	2 (2)		---	18.70 to 19.00	30 secs	-	-	-	-	0.1	0.0	20.5	0.0	-	94	0
BH5	1	19	2 (2)		---	18.70 to 19.00	60 secs	-	-	-	-	0.1	0.0	20.4	0.0	-	115	0
BH5	1	19	2 (2)		---	18.70 to 19.00	90 secs	-	-	-	-	0.1	0.0	20.4	0.0	-	135	0
BH5	1	19	2 (2)		---	18.70 to 19.00	120 secs	-	-	-	-	0.1	0.0	20.3	0.0	-	142	0
BH5	1	19	2 (2)		---	18.70 to 19.00	180 secs	-	-	-	-	0.1	0.0	20.3	0.0	-	123	0
BH5	1	19	2 (2)		---	18.70 to 19.00	240 secs	-	-	-	-	0.1	0.0	20.2	0.0	-	109	0
BH5	1	19	2 (2)		---	18.70 to 19.00	300 secs	-	-	-	-	0.1	0.0	20.2	0.0	-	101	0
BH5	1	19	2 (2)		---	18.70 to 19.00	360 secs	-	-	-	-	0.0	0.0	20.2	0.0	-	10	0
BH5	1	19	2 (3)	19.00	18.83	18.70 to 19.00	23/06/2020 10:50:00	-	-	-	5.46	-	-	-	-	-	-	-
BH5	1	19	3	19.00	---	18.70 to 19.00	07/07/2020 11:14:00	1017	1017	0.0 _(I)	-	-	-	-	-	-	-	-
BH5	1	19	3		---	18.70 to 19.00	30 secs	-	-	0.2 _(SS)	-	-	-	-	-	-	-	-

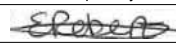
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 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
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IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH5	1	19	3 (2)	19.00	---	18.70 to 19.00	07/07/2020 11:15:00	-	-	-	-	0.0	0.0	21.3	0.0	-	1	0
BH5	1	19	3 (2)		---	18.70 to 19.00	60 secs	-	-	-	-	0.1	0.0	21.3	0.0	-	2	0
BH5	1	19	3 (2)		---	18.70 to 19.00	75 secs	-	-	-	-	0.0	0.0	21.3	0.0	-	1	0
BH5	1	19	3 (2)		---	18.70 to 19.00	90 secs	-	-	-	-	0.0	0.0	21.3	0.0	-	1	0
BH5	1	19	3 (2)		---	18.70 to 19.00	120 secs	-	-	-	-	0.0	0.0	21.3	0.0	-	1	0
BH5	1	19	3 (2)		---	18.70 to 19.00	150 secs	-	-	-	-	0.0	0.0	21.3	0.0	-	1	0
BH5	1	19	3 (2)		---	18.70 to 19.00	180 secs	-	-	-	-	0.0	0.0	21.3	0.0	-	1	0
BH5	1	19	3 (2)		---	18.70 to 19.00	240 secs	-	-	-	-	0.0	0.0	21.3	0.0	-	1	0
BH5	1	19	3 (2)		---	18.70 to 19.00	300 secs	-	-	-	-	0.0	0.0	21.3	0.0	-	1	0
BH5	1	19	3 (2)		---	18.70 to 19.00	720 secs	-	-	-	-	0.0	0.0	21.3	0.0	-	1	0
BH5	1	19	3 (3)	19.00	13.60	18.70 to 19.00	07/07/2020 11:27:00	-	-	-	4.50	-	-	-	-	0.0	-	-
BH5	1	19	4	19.00	---	18.70 to 19.00	04/08/2020 11:40:00	1014	1014	2.6 _(l)	-	-	-	-	-	-	-	-
BH5	1	19	4		---	18.70 to 19.00	30 secs	-	-	1.0 _(SS)	-	-	-	-	-	-	-	-
BH5	1	19	4 (2)	19.00	---	18.70 to 19.00	04/08/2020 11:41:00	-	-	-	-	0.4	0.0	20.1	0.0	14.4	266	0
BH5	1	19	4 (2)		---	18.70 to 19.00	15 secs	-	-	-	-	0.4	0.0	19.9	0.0	2.6 _(l)	324	1
BH5	1	19	4 (2)		---	18.70 to 19.00	30 secs	-	-	-	-	0.4	0.0	19.9	0.0	1.0 _(SS)	319	2
BH5	1	19	4 (2)		---	18.70 to 19.00	60 secs	-	-	-	-	0.3	0.0	19.8	0.0	-	311	2
BH5	1	19	4 (2)		---	18.70 to 19.00	90 secs	-	-	-	-	0.3	0.0	19.8	0.0	-	308	2
BH5	1	19	4 (2)		---	18.70 to 19.00	120 secs	-	-	-	-	0.3	0.0	19.9	0.0	-	294	2
BH5	1	19	4 (2)		---	18.70 to 19.00	180 secs	-	-	-	-	0.3	0.0	19.9	0.0	-	248	1
BH5	1	19	4 (2)		---	18.70 to 19.00	240 secs	-	-	-	-	0.3	0.0	19.9	0.0	-	217	1
BH5	1	19	4 (2)		---	18.70 to 19.00	300 secs	-	-	-	-	0.3	0.0	20.0	0.0	-	187	1
BH5	1	19	4 (2)		---	18.70 to 19.00	360 secs	-	-	-	-	0.2	0.0	20.0	0.0	-	257	1
BH5	1	19	4 (2)		---	18.70 to 19.00	400 secs	-	-	-	-	0.2	0.0	20.1	0.0	-	253	1
BH5	1	19	4 (2)		---	18.70 to 19.00	420 secs	-	-	-	-	0.2	0.0	20.1	0.0	-	231	1

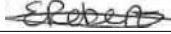
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 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
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Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH5	1	19	4 (2)		---	18.70 to 19.00	480 secs	-	-	-	-	0.2	0.0	20.1	0.0	-	213	1
BH5	1	19	4 (2)		---	18.70 to 19.00	540 secs	-	-	-	-	0.2	0.0	20.1	0.0	-	199	1
BH5	1	19	4 (2)		---	18.70 to 19.00	600 secs	-	-	-	-	0.2	0.0	20.1	0.0	-	177	1
BH5	1	19	4 (2)		---	18.70 to 19.00	660 secs	-	-	-	-	0.2	0.0	20.2	0.0	-	160	1
BH5	1	19	4 (2)		---	18.70 to 19.00	720 secs	-	-	-	-	0.2	0.0	20.2	0.0	-	147	1
BH5	1	19	4 (2)		---	18.70 to 19.00	780 secs	-	-	-	-	0.0	0.0	21.5	0.0	-	11	0
BH5	1	19	4 (3)	19.00	18.95	18.70 to 19.00	04/08/2020 11:59:00	-	-	-	6.88	-	-	-	-	-	-	-
BH6	1	19	1	16.00	---	15.70 to 16.00	16/06/2020 16:43:00	1009	1009	0.0 _(I)	-	-	-	-	-	-	-	-
BH6	1	19	1		---	15.70 to 16.00	30 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH6	1	19	1 (2)	16.00	---	15.70 to 16.00	16/06/2020 16:44:00	-	-	-	-	0.0	0.0	22.1	0.0	-	7	0
BH6	1	19	1 (2)		---	15.70 to 16.00	30 secs	-	-	-	-	0.0	0.0	22.2	0.0	-	9	0
BH6	1	19	1 (2)		---	15.70 to 16.00	60 secs	-	-	-	-	0.0	0.0	22.2	0.0	-	7	0
BH6	1	19	1 (2)		---	15.70 to 16.00	90 secs	-	-	-	-	0.0	0.0	22.2	0.0	-	7	0
BH6	1	19	1 (2)		---	15.70 to 16.00	120 secs	-	-	-	-	0.0	0.0	22.2	0.0	-	7	0
BH6	1	19	1 (2)		---	15.70 to 16.00	150 secs	-	-	-	-	0.0	0.0	22.2	0.0	-	7	0
BH6	1	19	1 (2)		---	15.70 to 16.00	180 secs	-	-	-	-	0.0	0.0	22.2	0.0	-	7	0
BH6	1	19	1 (2)		---	15.70 to 16.00	240 secs	-	-	-	-	0.0	0.0	22.2	0.0	-	7	0
BH6	1	19	1 (2)		---	15.70 to 16.00	300 secs	-	-	-	-	0.0	0.0	22.2	0.0	-	7	0
BH6	1	19	1 (2)		---	15.70 to 16.00	720 secs	-	-	-	-	0.0	0.0	22.2	0.0	-	7	0
BH6	1	19	1 (3)	16.00	16.80	15.70 to 16.00	16/06/2020 16:55:30	-	-	-	4.65	-	-	-	-	0.0	-	-
BH6	2	42	1 (4)	5.00	---	1.00 to 5.00	16/06/2020 17:01:00	1008	1008	0.0 _(I)	-	-	-	-	-	-	-	-
BH6	2	42	1 (4)		---	1.00 to 5.00	30 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH6	2	42	1 (5)	5.00	---	1.00 to 5.00	16/06/2020 17:02:00	-	-	-	-	0.0	0.0	22.2	0.0	-	6	0
BH6	2	42	1 (5)		---	1.00 to 5.00	15 secs	-	-	-	-	3.5	0.0	11.9	0.0	-	23	0

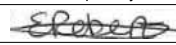
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Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH6	2	42	1 (5)		---	1.00 to 5.00	30 secs	-	-	-	-	3.6	0.0	10.2	0.0	-	30	0
BH6	2	42	1 (5)		---	1.00 to 5.00	60 secs	-	-	-	-	3.6	0.0	10.1	0.0	-	33	0
BH6	2	42	1 (5)		---	1.00 to 5.00	90 secs	-	-	-	-	3.6	0.0	10.1	0.0	-	33	0
BH6	2	42	1 (5)		---	1.00 to 5.00	120 secs	-	-	-	-	3.7	0.0	10.1	0.0	-	33	0
BH6	2	42	1 (5)		---	1.00 to 5.00	180 secs	-	-	-	-	3.8	0.0	10.9	0.0	-	32	0
BH6	2	42	1 (5)		---	1.00 to 5.00	240 secs	-	-	-	-	3.8	0.0	11.5	0.0	-	31	0
BH6	2	42	1 (5)		---	1.00 to 5.00	300 secs	-	-	-	-	3.8	0.1	12.2	2.0	-	30	0
BH6	2	42	1 (5)		---	1.00 to 5.00	540 secs	-	-	-	-	3.8	0.1	12.4	2.0	-	27	0
BH6	2	42	1 (6)	5.00	4.80	1.00 to 5.00	16/06/2020 17:10:30	-	-	-	4.70	-	-	-	-	2.2	-	-
BH6	1	19	2	16.00	---	15.70 to 16.00	23/06/2020 11:24:00	1020	1020	0.0 _(I)	-	-	-	-	-	-	-	-
BH6	1	19	2		---	15.70 to 16.00	30 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH6	1	19	2 (2)	16.00	---	15.70 to 16.00	23/06/2020 11:26:00	-	-	-	-	0.0	0.0	20.7	0.0	0.0	2	0
BH6	1	19	2 (2)		---	15.70 to 16.00	15 secs	-	-	-	-	0.1	0.0	20.1	0.0	-	137	0
BH6	1	19	2 (2)		---	15.70 to 16.00	30 secs	-	-	-	-	0.2	0.0	20.0	0.0	-	187	1
BH6	1	19	2 (2)		---	15.70 to 16.00	60 secs	-	-	-	-	0.2	0.0	20.0	0.0	-	191	1
BH6	1	19	2 (2)		---	15.70 to 16.00	90 secs	-	-	-	-	0.2	0.0	20.0	0.0	-	189	1
BH6	1	19	2 (2)		---	15.70 to 16.00	120 secs	-	-	-	-	0.2	0.0	20.0	0.0	-	186	1
BH6	1	19	2 (2)		---	15.70 to 16.00	180 secs	-	-	-	-	0.2	0.0	20.1	0.0	-	179	1
BH6	1	19	2 (2)		---	15.70 to 16.00	240 secs	-	-	-	-	0.2	0.0	20.1	0.0	-	151	0
BH6	1	19	2 (2)		---	15.70 to 16.00	300 secs	-	-	-	-	0.2	0.0	20.1	0.0	-	133	0
BH6	1	19	2 (2)		---	15.70 to 16.00	360 secs	-	-	-	-	0.2	0.0	20.7	0.0	-	93	0
BH6	1	19	2 (3)	16.00	17.00	15.70 to 16.00	23/06/2020 11:38:00	-	-	-	3.25	-	-	-	-	-	-	-
BH6	2	42	2 (4)	5.00	---	1.00 to 5.00	23/06/2020 11:40:00	1020	1020	0.0 _(I)	-	-	-	-	-	-	-	-
BH6	2	42	2 (4)		---	1.00 to 5.00	30 secs	-	-	0.1 _(SS)	-	-	-	-	-	-	-	-
BH6	2	42	2 (5)	5.00	---	1.00 to 5.00	23/06/2020 11:41:00	-	-	-	-	0.0	0.0	21.1	0.0	4.1	3	0

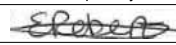
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Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH6	2	42	2 (5)		---	1.00 to 5.00	15 secs	-	-	-	-	4.5	0.0	10.4	0.0	-	8	0
BH6	2	42	2 (5)		---	1.00 to 5.00	30 secs	-	-	-	-	4.6	0.0	9.5	0.0	-	10	0
BH6	2	42	2 (5)		---	1.00 to 5.00	60 secs	-	-	-	-	4.6	0.0	9.5	0.0	-	10	0
BH6	2	42	2 (5)		---	1.00 to 5.00	90 secs	-	-	-	-	4.7	0.0	9.6	0.0	-	10	0
BH6	2	42	2 (5)		---	1.00 to 5.00	120 secs	-	-	-	-	4.7	0.0	9.9	0.0	-	10	0
BH6	2	42	2 (5)		---	1.00 to 5.00	180 secs	-	-	-	-	4.7	0.0	10.5	0.0	-	9	0
BH6	2	42	2 (5)		---	1.00 to 5.00	240 secs	-	-	-	-	4.7	0.0	11.0	0.0	-	8	0
BH6	2	42	2 (5)		---	1.00 to 5.00	300 secs	-	-	-	-	4.7	0.0	11.5	0.0	-	8	0
BH6	2	42	2 (5)		---	1.00 to 5.00	360 secs	-	-	-	-	4.4	0.0	21.3	0.0	-	2	0
BH6	2	42	2 (6)	5.00	4.80	1.00 to 5.00	23/06/2020 11:54:00	-	-	-	4.75	-	-	-	-	-	-	-
BH6	1	19	3	16.00	---	15.70 to 16.00	07/07/2020 12:13:00	1020	1016	0.0 _(I)	-	-	-	-	-	-	-	-
BH6	1	19	3		---	15.70 to 16.00	30 secs	-	-	2.1 _(SS)	-	-	-	-	-	-	-	-
BH6	1	19	3 (2)	16.00	---	15.70 to 16.00	07/07/2020 12:14:00	-	-	-	-	0.0	0.0	21.5	0.0	-	2	0
BH6	1	19	3 (2)		---	15.70 to 16.00	30 secs	-	-	-	-	0.2	0.0	20.9	0.0	-	149	0
BH6	1	19	3 (2)		---	15.70 to 16.00	60 secs	-	-	-	-	0.2	0.0	20.0	0.0	-	187	0
BH6	1	19	3 (2)		---	15.70 to 16.00	90 secs	-	-	-	-	0.2	0.0	20.4	0.0	-	183	1
BH6	1	19	3 (2)		---	15.70 to 16.00	120 secs	-	-	-	-	0.2	0.0	20.4	0.0	-	179	1
BH6	1	19	3 (2)		---	15.70 to 16.00	150 secs	-	-	-	-	0.2	0.0	20.1	0.0	-	177	1
BH6	1	19	3 (2)		---	15.70 to 16.00	180 secs	-	-	-	-	0.2	0.0	19.7	0.0	-	174	1
BH6	1	19	3 (2)		---	15.70 to 16.00	240 secs	-	-	-	-	0.2	0.0	19.5	0.0	-	153	0
BH6	1	19	3 (2)		---	15.70 to 16.00	300 secs	-	-	-	-	0.2	0.0	19.6	0.0	-	136	0
BH6	1	19	3 (2)		---	15.70 to 16.00	660 secs	-	-	-	-	0.0	0.0	21.1	0.0	-	12	0
BH6	1	19	3 (3)	16.00	18.95	15.70 to 16.00	07/07/2020 12:25:00	-	-	-	4.45	-	-	-	-	0.0	-	-
BH6	1	19	4	16.00	---	15.70 to 16.00	04/08/2020 12:09:00	1015	1015	0.0 _(I)	-	-	-	-	-	-	-	-
BH6	1	19	4		---	15.70 to 16.00	30 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-

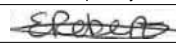
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 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
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IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH6	1	19	4 (2)	16.00	---	15.70 to 16.00	04/08/2020 12:10:00	-	-	-	-	0.1	0.0	21.7	0.0	0.0	5	0
BH6	1	19	4 (2)		---	15.70 to 16.00	15 secs	-	-	-	-	0.0	0.0	21.8	0.0	0.0 _(I)	3	0
BH6	1	19	4 (2)		---	15.70 to 16.00	30 secs	-	-	-	-	0.0	0.0	21.8	0.0	0.0 _(SS)	2	0
BH6	1	19	4 (2)		---	15.70 to 16.00	60 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	2	0
BH6	1	19	4 (2)		---	15.70 to 16.00	90 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	2	0
BH6	1	19	4 (2)		---	15.70 to 16.00	120 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	2	0
BH6	1	19	4 (2)		---	15.70 to 16.00	180 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	2	0
BH6	1	19	4 (2)		---	15.70 to 16.00	240 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	1	0
BH6	1	19	4 (2)		---	15.70 to 16.00	300 secs	-	-	-	-	0.0	0.0	21.8	0.0	-	2	0
BH6	1	19	4 (3)	16.00	19.54	15.70 to 16.00	04/08/2020 12:16:00	-	-	-	4.84	-	-	-	-	-	-	-
BH6	2	42	4	5.00	---	1.00 to 5.00	04/08/2020 12:28:00	-	-	0.0 _(I)	-	-	-	-	-	-	-	-
BH6	2	42	4		---	1.00 to 5.00	30 secs	1013	1013	0.1 _(SS)	-	-	-	-	-	-	-	-
BH6	2	42	4 (2)	5.00	---	1.00 to 5.00	04/08/2020 12:29:00	-	-	-	-	0.0	0.0	21.9	0.0	0.0	1	0
BH6	2	42	4 (2)		---	1.00 to 5.00	15 secs	-	-	-	-	2.1	0.0	20.1	0.0	0.0 _(I)	2	0
BH6	2	42	4 (2)		---	1.00 to 5.00	30 secs	-	-	-	-	2.2	0.0	19.9	0.0	0.0 _(SS)	2	0
BH6	2	42	4 (2)		---	1.00 to 5.00	60 secs	-	-	-	-	2.5	0.0	19.6	0.0	-	2	0
BH6	2	42	4 (2)		---	1.00 to 5.00	90 secs	-	-	-	-	3.0	0.0	19.2	0.0	-	2	0
BH6	2	42	4 (2)		---	1.00 to 5.00	120 secs	-	-	-	-	3.6	0.0	18.7	0.0	-	2	0
BH6	2	42	4 (2)		---	1.00 to 5.00	180 secs	-	-	-	-	4.8	0.0	17.6	0.0	-	2	0
BH6	2	42	4 (2)		---	1.00 to 5.00	240 secs	-	-	-	-	5.3	0.0	17.3	0.0	-	2	0
BH6	2	42	4 (2)		---	1.00 to 5.00	300 secs	-	-	-	-	5.3	0.0	17.2	0.0	-	2	0
BH6	2	42	4 (3)	5.00	4.87	1.00 to 5.00	04/08/2020 12:37:00	-	-	-	4.86	0.0	0.0	22.0	0.0	-	1	0
BH7	1	19	1	17.00	---	16.70 to 17.00	16/06/2020 16:11:00	1008	1008	0.0 _(I)	-	-	-	-	-	-	-	-
BH7	1	19	1		---	16.70 to 17.00	30 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-

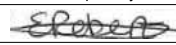
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 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
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IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH7	1	19	1 (2)	17.00	---	16.70 to 17.00	16/06/2020 16:12:00	-	-	-	-	0.0	0.0	22.0	0.0	-	15	0
BH7	1	19	1 (2)		---	16.70 to 17.00	15 secs	-	-	-	-	0.0	0.0	21.1	0.0	-	158	0
BH7	1	19	1 (2)		---	16.70 to 17.00	30 secs	-	-	-	-	0.1	0.0	20.9	0.0	-	230	0
BH7	1	19	1 (2)		---	16.70 to 17.00	60 secs	-	-	-	-	0.1	0.0	20.8	0.0	-	269	0
BH7	1	19	1 (2)		---	16.70 to 17.00	90 secs	-	-	-	-	0.1	0.0	20.8	0.0	-	286	0
BH7	1	19	1 (2)		---	16.70 to 17.00	120 secs	-	-	-	-	0.1	0.0	20.3	0.0	-	259	0
BH7	1	19	1 (2)		---	16.70 to 17.00	180 secs	-	-	-	-	0.1	0.0	19.3	0.0	-	180	0
BH7	1	19	1 (2)		---	16.70 to 17.00	240 secs	-	-	-	-	0.0	0.0	18.7	0.0	-	123	0
BH7	1	19	1 (2)		---	16.70 to 17.00	300 secs	-	-	-	-	0.0	0.0	18.5	0.0	-	95	0
BH7	1	19	1 (2)		---	16.70 to 17.00	660 secs	-	-	-	-	0.0	0.0	18.4	0.0	-	84	0
BH7	1	19	1 (3)	17.00	16.49	16.70 to 17.00	16/06/2020 16:22:30	-	-	-	5.29	-	-	-	-	0.0	-	-
BH7	1	19	2	17.00	---	16.70 to 17.00	23/06/2020 09:36:00	1021	1021	0.1 _(I)	-	-	-	-	-	-	-	-
BH7	1	19	2		---	16.70 to 17.00	30 secs	-	-	0.2 _(SS)	-	-	-	-	-	-	-	-
BH7	1	19	2 (2)	17.00	---	16.70 to 17.00	23/06/2020 09:39:00	-	-	-	-	0.1	0.0	20.4	0.0	0.0	0	0
BH7	1	19	2 (2)		---	16.70 to 17.00	15 secs	-	-	-	-	0.1	0.0	19.7	0.0	-	211	0
BH7	1	19	2 (2)		---	16.70 to 17.00	30 secs	-	-	-	-	0.1	0.0	19.6	0.0	-	281	0
BH7	1	19	2 (2)		---	16.70 to 17.00	60 secs	-	-	-	-	0.1	0.0	19.6	0.0	-	282	0
BH7	1	19	2 (2)		---	16.70 to 17.00	90 secs	-	-	-	-	0.1	0.0	19.4	0.0	-	266	0
BH7	1	19	2 (2)		---	16.70 to 17.00	120 secs	-	-	-	-	0.1	0.0	18.7	0.0	-	220	0
BH7	1	19	2 (2)		---	16.70 to 17.00	180 secs	-	-	-	-	0.1	0.0	17.6	0.0	-	151	0
BH7	1	19	2 (2)		---	16.70 to 17.00	240 secs	-	-	-	-	0.1	0.0	17.1	0.0	-	116	0
BH7	1	19	2 (2)		---	16.70 to 17.00	300 secs	-	-	-	-	0.1	0.0	16.8	0.0	-	96	0
BH7	1	19	2 (2)		---	16.70 to 17.00	360 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	1	0
BH7	1	19	2 (3)	17.00	16.49	16.70 to 17.00	23/06/2020 10:33:00	-	-	-	4.77	-	-	-	-	-	-	-
BH7	1	19	3	17.00	---	16.70 to 17.00	07/07/2020 12:35:00	1016	1016	0.0 _(I)	-	-	-	-	-	-	-	-

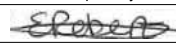
Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

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Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH7	1	19	3		---	16.70 to 17.00	30 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH7	1	19	3 (2)	17.00	---	16.70 to 17.00	07/07/2020 12:36:00	-	-	-	-	0.0	0.0	21.1	0.0	-	1	0
BH7	1	19	3 (2)		---	16.70 to 17.00	15 secs	-	-	-	-	0.0	0.0	20.6	0.0	-	85	0
BH7	1	19	3 (2)		---	16.70 to 17.00	30 secs	-	-	-	-	0.0	0.0	20.5	0.0	-	119	0
BH7	1	19	3 (2)		---	16.70 to 17.00	60 secs	-	-	-	-	0.0	0.0	20.4	0.0	-	127	0
BH7	1	19	3 (2)		---	16.70 to 17.00	90 secs	-	-	-	-	0.0	0.0	20.4	0.0	-	129	0
BH7	1	19	3 (2)		---	16.70 to 17.00	120 secs	-	-	-	-	0.0	0.0	20.4	0.0	-	128	0
BH7	1	19	3 (2)		---	16.70 to 17.00	180 secs	-	-	-	-	0.0	0.0	20.4	0.0	-	115	0
BH7	1	19	3 (2)		---	16.70 to 17.00	240 secs	-	-	-	-	0.0	0.0	20.4	0.0	-	101	0
BH7	1	19	3 (2)		---	16.70 to 17.00	300 secs	-	-	-	-	0.0	0.0	20.5	0.0	-	91	0
BH7	1	19	3 (2)		---	16.70 to 17.00	660 secs	-	-	-	-	0.0	0.0	21.3	0.0	-	4	0
BH7	1	19	3 (3)	17.00	17.00	16.70 to 17.00	07/07/2020 12:47:00	-	-	-	3.65	-	-	-	-	0.0	-	-
BH7	1	19	4	17.00	---	16.70 to 17.00	04/08/2020 12:42:00	1013	1013	0.0 _(I)	-	-	-	-	-	-	-	-
BH7	1	19	4		---	16.70 to 17.00	30 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH7	1	19	4 (2)	17.00	---	16.70 to 17.00	04/08/2020 12:45:00	-	-	-	-	0.4	0.0	20.6	0.0	0.0	35	0
BH7	1	19	4 (2)		---	16.70 to 17.00	15 secs	-	-	-	-	0.5	0.0	20.5	0.0	0.0 _(I)	46	0
BH7	1	19	4 (2)		---	16.70 to 17.00	30 secs	-	-	-	-	0.5	0.0	20.4	0.0	0.0 _(SS)	49	0
BH7	1	19	4 (2)		---	16.70 to 17.00	60 secs	-	-	-	-	0.5	0.0	20.4	0.0	-	51	0
BH7	1	19	4 (2)		---	16.70 to 17.00	90 secs	-	-	-	-	0.5	0.0	20.3	0.0	-	50	0
BH7	1	19	4 (2)		---	16.70 to 17.00	120 secs	-	-	-	-	0.5	0.0	20.3	0.0	-	48	0
BH7	1	19	4 (2)		---	16.70 to 17.00	180 secs	-	-	-	-	0.5	0.0	20.3	0.0	-	46	0
BH7	1	19	4 (2)		---	16.70 to 17.00	240 secs	-	-	-	-	0.5	0.0	20.3	0.0	-	45	0
BH7	1	19	4 (2)		---	16.70 to 17.00	300 secs	-	-	-	-	0.0	0.0	22.1	0.0	-	2	0
BH7	1	19	4 (3)	17.00	19.54	16.70 to 17.00	04/08/2020 12:56:00	-	-	-	4.84	-	-	-	-	-	-	-

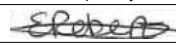
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Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH8	1	32	1	5.00	---	1.00 to 5.00	16/06/2020 15:19:00	1008	1008	0.0 _(I)	-	-	-	-	-	-	-	-
BH8	1	32	1		---	1.00 to 5.00	30 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH8	1	32	1 (2)	5.00	---	1.00 to 5.00	16/06/2020 15:20:00	-	-	-	-	0.0	0.0	21.8	0.0	-	1	0
BH8	1	32	1 (2)	5.00	---	1.00 to 5.00	16/06/2020 15:21:00	-	-	-	-	0.0	0.0	21.4	0.0	-	495	0
BH8	1	32	1 (2)		---	1.00 to 5.00	15 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	176	0
BH8	1	32	1 (2)		---	1.00 to 5.00	30 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	59	0
BH8	1	32	1 (2)		---	1.00 to 5.00	60 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	43	0
BH8	1	32	1 (2)		---	1.00 to 5.00	90 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	36	0
BH8	1	32	1 (2)		---	1.00 to 5.00	120 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	28	0
BH8	1	32	1 (2)		---	1.00 to 5.00	180 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	24	0
BH8	1	32	1 (2)		---	1.00 to 5.00	240 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	21	0
BH8	1	32	1 (2)		---	1.00 to 5.00	660 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	17	0
BH8	1	32	1 (3)	5.00	18.00	1.00 to 5.00	16/06/2020 15:31:30	-	-	-	6.35	-	-	-	-	0.0	-	-
BH8	2	19	1 (4)	18.50	---	13.50 to 18.50	16/06/2020 15:35:00	1009	1009	0.0 _(I)	-	-	-	-	-	-	-	-
BH8	2	19	1 (4)		---	13.50 to 18.50	30 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH8	2	19	1 (5)	18.50	---	13.50 to 18.50	16/06/2020 15:36:00	-	-	-	-	0.0	0.0	21.8	0.0	-	>>>	0
BH8	2	19	1 (5)		---	13.50 to 18.50	15 secs	-	-	-	-	0.3	0.0	20.5	0.0	-	>>>	0
BH8	2	19	1 (5)		---	13.50 to 18.50	30 secs	-	-	-	-	0.4	0.0	19.7	0.0	-	>>>	1
BH8	2	19	1 (5)		---	13.50 to 18.50	60 secs	-	-	-	-	0.8	0.0	18.5	0.0	-	>>>	2
BH8	2	19	1 (5)		---	13.50 to 18.50	90 secs	-	-	-	-	1.1	0.0	17.6	0.0	-	>>>	3
BH8	2	19	1 (5)		---	13.50 to 18.50	120 secs	-	-	-	-	1.4	0.0	16.8	0.0	-	>>>	3
BH8	2	19	1 (5)		---	13.50 to 18.50	180 secs	-	-	-	-	2.9	0.0	8.1	0.0	-	>>>	2
BH8	2	19	1 (5)		---	13.50 to 18.50	240 secs	-	-	-	-	3.0	0.0	6.5	0.0	-	>>>	1
BH8	2	19	1 (5)		---	13.50 to 18.50	300 secs	-	-	-	-	3.0	0.0	6.2	0.0	-	>>>	1
BH8	2	19	1 (5)		---	13.50 to 18.50	1920 secs	-	-	-	-	0.0	0.0	22.0	0.0	-	20	0

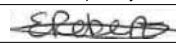
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Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH8	2	19	1 (6)	18.50	4.85	13.50 to 18.50	16/06/2020 16:07:30	-	-	-	1.25	-	-	-	-	0.0	-	-
BH8	2	19	2	18.50	---	13.50 to 18.50	23/06/2020 08:45:00	1021	1021	0.0 _(I)	-	-	-	-	-	-	-	-
BH8	2	19	2		---	13.50 to 18.50	30 secs	-	-	0.1 _(SS)	-	-	-	-	-	-	-	-
BH8	2	19	2 (2)	18.50	---	13.50 to 18.50	23/06/2020 08:49:00	-	-	-	-	0.1	0.0	21.0	0.0	0.0	0	0
BH8	2	19	2 (2)		---	13.50 to 18.50	15 secs	-	-	-	-	0.1	0.0	20.9	0.0	-	24	0
BH8	2	19	2 (2)		---	13.50 to 18.50	30 secs	-	-	-	-	0.1	0.0	20.9	0.0	-	7	0
BH8	2	19	2 (2)		---	13.50 to 18.50	60 secs	-	-	-	-	0.1	0.0	21.0	0.0	-	2	0
BH8	2	19	2 (2)		---	13.50 to 18.50	90 secs	-	-	-	-	0.1	0.0	21.0	0.0	-	1	0
BH8	2	19	2 (2)		---	13.50 to 18.50	120 secs	-	-	-	-	0.1	0.0	21.0	0.0	-	1	0
BH8	2	19	2 (2)		---	13.50 to 18.50	180 secs	-	-	-	-	0.1	0.0	21.0	0.0	-	1	0
BH8	2	19	2 (2)		---	13.50 to 18.50	240 secs	-	-	-	-	0.1	0.0	21.0	0.0	-	1	0
BH8	2	19	2 (2)		---	13.50 to 18.50	300 secs	-	-	-	-	0.1	0.0	21.0	0.0	-	1	1
BH8	2	19	2 (2)		---	13.50 to 18.50	360 secs	-	-	-	-	0.1	0.0	21.0	0.0	-	1	0
BH8	2	19	2 (3)	18.50	18.15	13.50 to 18.50	23/06/2020 09:01:00	-	-	-	6.43	-	-	-	-	-	-	-
BH8	1	32	2 (4)	5.00	---	1.00 to 5.00	23/06/2020 09:03:00	1020	1021	0.0 _(I)	-	-	-	-	-	-	-	-
BH8	1	32	2 (4)		---	1.00 to 5.00	30 secs	-	-	-2.7 _(SS)	-	-	-	-	-	-	-	-
BH8	1	32	2 (5)	5.00	---	1.00 to 5.00	23/06/2020 09:07:00	-	-	-	-	0.1	0.0	20.8	0.0	-	0	0
BH8	1	32	2 (5)		---	1.00 to 5.00	15 secs	-	-	-	-	1.2	0.0	14.3	0.0	-	2	0
BH8	1	32	2 (5)		---	1.00 to 5.00	30 secs	-	-	-	-	1.6	0.0	10.5	0.0	-	2	0
BH8	1	32	2 (5)		---	1.00 to 5.00	60 secs	-	-	-	-	2.5	0.0	5.1	0.0	-	3	0
BH8	1	32	2 (5)		---	1.00 to 5.00	90 secs	-	-	-	-	3.0	0.0	1.9	0.0	-	3	0
BH8	1	32	2 (5)		---	1.00 to 5.00	120 secs	-	-	-	-	3.1	0.0	1.1	0.0	-	3	0
BH8	1	32	2 (5)		---	1.00 to 5.00	180 secs	-	-	-	-	3.2	0.0	0.8	0.0	-	3	0
BH8	1	32	2 (5)		---	1.00 to 5.00	240 secs	-	-	-	-	3.3	0.0	0.8	0.0	-	2	0
BH8	1	32	2 (5)		---	1.00 to 5.00	300 secs	-	-	-	-	3.3	0.0	0.7	0.0	-	2	0

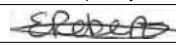
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IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH8	1	32	2 (5)		---	1.00 to 5.00	360 secs	-	-	-	-	3.3	0.0	0.7	0.0	-	2	0
BH8	1	32	2 (6)	5.00	4.83	1.00 to 5.00	23/06/2020 09:21:00	-	-	-	1.93	-	-	-	-	-	-	-
BH8	1	32	3	5.00	---	1.00 to 5.00	07/07/2020 12:49:00	1016	1016	0.0 _(I)	-	-	-	-	-	-	-	-
BH8	1	32	3		---	1.00 to 5.00	30 secs	-	-	0.1 _(SS)	-	-	-	-	-	-	-	-
BH8	1	32	3 (2)	5.00	---	1.00 to 5.00	07/07/2020 12:50:00	-	-	-	-	0.0	0.0	21.4	0.0	-	2	0
BH8	1	32	3 (2)		---	1.00 to 5.00	30 secs	-	-	-	-	5.7	0.0	14.9	0.0	-	5	0
BH8	1	32	3 (2)		---	1.00 to 5.00	60 secs	-	-	-	-	5.8	0.0	14.1	0.0	-	5	0
BH8	1	32	3 (2)		---	1.00 to 5.00	90 secs	-	-	-	-	5.8	0.0	14.0	0.0	-	5	0
BH8	1	32	3 (2)		---	1.00 to 5.00	120 secs	-	-	-	-	5.8	0.0	14.0	0.0	-	4	0
BH8	1	32	3 (2)		---	1.00 to 5.00	150 secs	-	-	-	-	5.7	0.0	14.3	0.0	-	4	0
BH8	1	32	3 (2)		---	1.00 to 5.00	180 secs	-	-	-	-	5.7	0.0	14.3	0.0	-	4	0
BH8	1	32	3 (2)		---	1.00 to 5.00	240 secs	-	-	-	-	5.7	0.0	14.4	0.0	-	4	0
BH8	1	32	3 (2)		---	1.00 to 5.00	300 secs	-	-	-	-	5.7	0.0	14.7	0.0	-	3	0
BH8	1	32	3 (2)		---	1.00 to 5.00	600 secs	-	-	-	-	5.6	0.0	15.1	0.0	-	3	0
BH8	1	32	3 (3)	5.00	4.95	1.00 to 5.00	07/07/2020 13:00:00	-	-	-	4.85	-	-	-	-	0.0	-	-
BH8	2	19	4	18.50	---	13.50 to 18.50	04/08/2020 13:07:00	1013	1013	0.0 _(I)	-	-	-	-	-	-	-	-
BH8	2	19	4		---	13.50 to 18.50	30 secs	-	-	0.1 _(SS)	-	-	-	-	-	-	-	-
BH8	2	19	4 (2)	18.50	---	13.50 to 18.50	04/08/2020 13:09:00	-	-	-	-	0.0	0.0	22.2	-	0.0	6 _(I)	0
BH8	2	19	4 (2)		---	13.50 to 18.50	15 secs	-	-	-	-	0.0	0.0	22.2	-	0.0 _(I)	2 _(I)	0
BH8	2	19	4 (2)		---	13.50 to 18.50	30 secs	-	-	-	-	0.0	0.0	22.1	-	0.1 _(SS)	1 _(I)	0
BH8	2	19	4 (2)		---	13.50 to 18.50	60 secs	-	-	-	-	0.0	0.0	22.1	-	-	1 _(I)	0
BH8	2	19	4 (2)		---	13.50 to 18.50	90 secs	-	-	-	-	0.0	0.0	22.1	-	-	1 _(I)	0
BH8	2	19	4 (2)		---	13.50 to 18.50	120 secs	-	-	-	-	0.0	0.0	22.0	-	-	1 _(I)	0
BH8	2	19	4 (2)		---	13.50 to 18.50	180 secs	-	-	-	-	0.0	0.0	22.1	-	-	1 _(I)	0
BH8	2	19	4 (2)		---	13.50 to 18.50	240 secs	-	-	-	-	0.0	0.0	22.1	-	-	1 _(I)	0

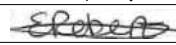
Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
		14/08/20			563166
Contract: Greenway					Page: 19 of 22 

IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH8	2	19	4	18.50	---	13.50 to 18.50	04/08/2020 13:14:00	-	-	-	-	0.0	0.0	22.2	-	-	1 _(g)	0
BH8	2	19	4 (3)	18.50	18.00	13.50 to 18.50	04/08/2020 13:18:00	-	-	-	6.50	-	-	-	-	-	-	-
BH8	1	32	4	5.00	---	1.00 to 5.00	04/08/2020 13:20:00	1013	1013	0.0 _(l)	-	-	-	-	-	-	-	-
BH8	1	32	4		---	1.00 to 5.00	30 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH8	1	32	4 (2)	5.00	---	1.00 to 5.00	04/08/2020 13:23:00	-	-	-	-	6.3	0.0	2.6	0.0	0.0	3	0
BH8	1	32	4 (2)		---	1.00 to 5.00	15 secs	-	-	-	-	6.4	0.0	1.5	0.0	0.0 _(l)	4	0
BH8	1	32	4 (2)		---	1.00 to 5.00	30 secs	-	-	-	-	6.4	0.0	1.3	0.0	0.1 _(SS)	3	0
BH8	1	32	4 (2)		---	1.00 to 5.00	60 secs	-	-	-	-	6.4	0.0	1.3	0.0	-	3	0
BH8	1	32	4 (2)		---	1.00 to 5.00	90 secs	-	-	-	-	6.4	0.0	1.3	0.0	-	3	0
BH8	1	32	4 (2)		---	1.00 to 5.00	120 secs	-	-	-	-	6.5	0.0	1.6	0.0	-	2	0
BH8	1	32	4 (2)		---	1.00 to 5.00	180 secs	-	-	-	-	6.4	0.0	1.8	0.0	-	1	0
BH8	1	32	4 (2)		---	1.00 to 5.00	240 secs	-	-	-	-	6.4	0.0	2.3	0.0	-	1	0
BH8	1	32	4 (2)		---	1.00 to 5.00	300 secs	-	-	-	-	0.1	0.0	19.0	0.0	-	0	0
BH8	1	32	4 (3)	5.00	4.81	1.00 to 5.00	04/08/2020 13:31:00	-	-	-	2.11	-	-	-	-	-	-	-
BH9	#REF!	#REF!	3	NDA	---	No Installation	07/07/2020 13:07:00	1016	1016	0.0 _(l)	-	-	-	-	-	-	-	-
BH9	#REF!	#REF!	3		---	No Installation	30 secs	-	-	0.1 _(SS)	-	-	-	-	-	-	-	-
BH9	#REF!	#REF!	3 (2)	NDA	---	No Installation	07/07/2020 13:08:00	-	-	-	-	0.1	0.0	21.5	0.0	-	1	0
BH9	#REF!	#REF!	3 (2)		---	No Installation	15 secs	-	-	-	-	0.4	0.0	20.5	0.0	-	79	0
BH9	#REF!	#REF!	3 (2)		---	No Installation	30 secs	-	-	-	-	0.4	0.0	20.4	0.0	-	111	0
BH9	#REF!	#REF!	3 (2)		---	No Installation	60 secs	-	-	-	-	0.4	0.0	20.3	0.0	-	115	0
BH9	#REF!	#REF!	3 (2)		---	No Installation	90 secs	-	-	-	-	0.4	0.0	20.3	0.0	-	115	0
BH9	#REF!	#REF!	3 (2)		---	No Installation	120 secs	-	-	-	-	0.4	0.0	20.2	0.0	-	108	0
BH9	#REF!	#REF!	3 (2)		---	No Installation	180 secs	-	-	-	-	0.4	0.0	20.1	0.0	-	98	0
BH9	#REF!	#REF!	3 (2)		---	No Installation	240 secs	-	-	-	-	0.4	0.0	20.0	0.0	-	89	0

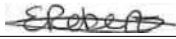
Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
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IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH9	#REF!	#REF!	3 (2)		---	No Installation	300 secs	-	-	-	-	0.4	0.0	19.9	0.0	-	81	0
BH9	#REF!	#REF!	3 (2)		---	No Installation	720 secs	-	-	-	-	0.0	0.0	21.6	0.0	-	6	0
BH9	#REF!	#REF!	3 (3)	NDA	16.55	No Installation	07/07/2020 13:20:00	-	-	-	5.25	-	-	-	-	0.0	-	-
BH10	#REF!	#REF!	3	NDA	---	No Installation	07/07/2020 13:26:00	1016	1016	0.0	-	-	-	-	-	-	-	-
BH10	#REF!	#REF!	3		---	No Installation	30 secs	-	-	0.0	-	-	-	-	-	-	-	-
BH10	#REF!	#REF!	3 (2)	NDA	---	No Installation	07/07/2020 13:27:00	-	-	-	-	0.0	0.0	21.7	0.0	-	1	0
BH10	#REF!	#REF!	3 (2)		---	No Installation	15 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	5	0
BH10	#REF!	#REF!	3 (2)		---	No Installation	30 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	2	0
BH10	#REF!	#REF!	3 (2)		---	No Installation	60 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	2	0
BH10	#REF!	#REF!	3 (2)		---	No Installation	90 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	2	0
BH10	#REF!	#REF!	3 (2)		---	No Installation	120 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	2	0
BH10	#REF!	#REF!	3 (2)		---	No Installation	180 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	2	0
BH10	#REF!	#REF!	3 (2)		---	No Installation	240 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	2	0
BH10	#REF!	#REF!	3 (2)		---	No Installation	300 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	1	0
BH10	#REF!	#REF!	3 (2)		---	No Installation	660 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	1	0
BH10	#REF!	#REF!	3 (3)	NDA	18.00	No Installation	07/07/2020 13:38:00	-	-	-	6.45	-	-	-	-	0.0	-	-
BH11	#REF!	#REF!	3	NDA	---	No Installation	07/07/2020 13:40:00	-	-	0.0 _(I)	-	-	-	-	-	-	-	-
BH11	#REF!	#REF!	3		---	No Installation	30 secs	-	-	0.1 _(SS)	-	-	-	-	-	-	-	-
BH11	#REF!	#REF!	3 (2)	NDA	---	No Installation	07/07/2020 13:41:00	-	-	-	-	0.0	0.0	21.9	0.0	-	1	0
BH11	#REF!	#REF!	3 (2)		---	No Installation	15 secs	-	-	-	-	4.9	0.0	1.6	0.0	-	4	0
BH11	#REF!	#REF!	3 (2)		---	No Installation	30 secs	-	-	-	-	5.0	0.0	0.5	0.0	-	5	0
BH11	#REF!	#REF!	3 (2)		---	No Installation	60 secs	-	-	-	-	5.0	0.0	0.3	0.0	-	5	0
BH11	#REF!	#REF!	3 (2)		---	No Installation	90 secs	-	-	-	-	5.0	0.0	0.3	0.0	-	5	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
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IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH11	#REF!	#REF!	3 (2)		---	No Installation	120 secs	-	-	-	-	5.0	0.0	0.2	0.0	-	5	0
BH11	#REF!	#REF!	3 (2)		---	No Installation	180 secs	-	-	-	-	5.1	0.0	0.2	0.0	-	4	0
BH11	#REF!	#REF!	3 (2)		---	No Installation	240 secs	-	-	-	-	5.1	0.0	0.2	0.0	-	3	0
BH11	#REF!	#REF!	3 (2)		---	No Installation	300 secs	-	-	-	-	5.2	0.0	0.2	0.0	-	3	0
BH11	#REF!	#REF!	3 (2)		---	No Installation	600 secs	-	-	-	-	0.1	0.0	21.6	0.0	-	0	0
BH11	#REF!	#REF!	3 (3)	NDA	4.72	No Installation	07/07/2020 13:51:00	-	-	-	2.87	-	-	-	-	0.0	-	-

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
		14/08/20			563166
Contract: Greenway					Page: 22 of 22 

APPENDIX G - CALIBRATION CERTIFICATES

- (i) SPT Calibration Records

SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

Southern Testing
Keeble House
Stuart Way
East Grinstead
West Sussex
RH19 4QA

SPT Hammer Ref: AR1321
Test Date: 01/07/2020
Report Date: 01/07/2020
File Name: AR1321.spt
Test Operator: LB

Instrumented Rod Data

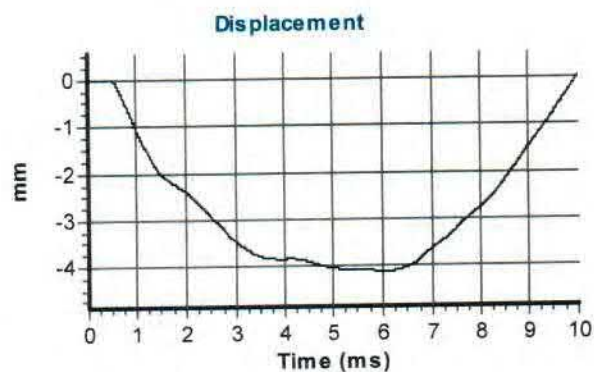
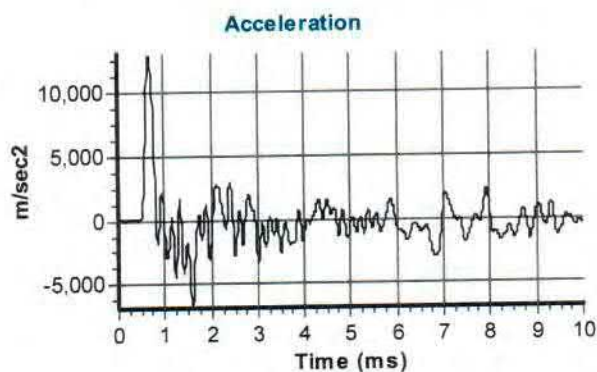
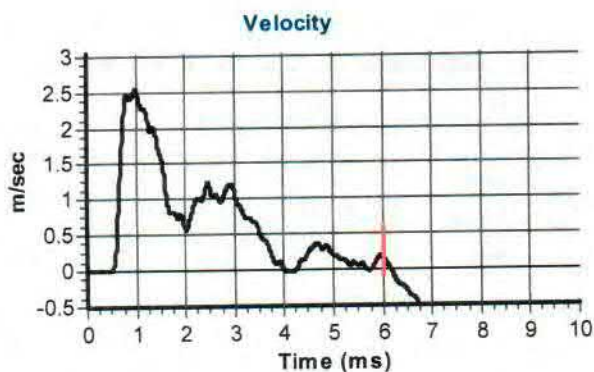
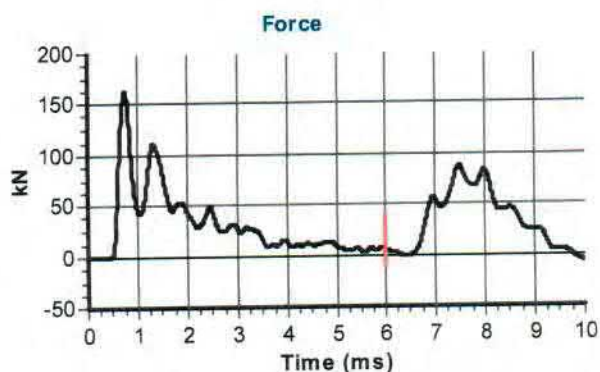
Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.3
Assumed Modulus E_a (GPa): 208
Accelerometer No.1: 6458
Accelerometer No.2: 9607

SPT Hammer Information

Hammer Mass m (kg): 63.5
Falling Height h (mm): 760
SPT String Length L (m): 14.5

Comments / Location

CHARLWOODS



Calculations

Area of Rod A (mm²): 944
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 248

Energy Ratio E_r (%)

52

Signed: Lisa Baker

Title: Assistant Field Operations Manager

The recommended calibration interval is 12 months

SPT Hammer Energy Test Report

in accordance with BSEN ISO 22476-3:2005

ARCHWAY ENGINEERING (UK) LTD
AINLEYS INDUSTRIAL ESTATE
ELLAND
WEST YORKSHIRE
HX5 9JP

SPT Hammer Ref: AR1322
Test Date: 15/07/2019
Report Date: 15/07/2019
File Name: AR1322.spt
Test Operator: SH

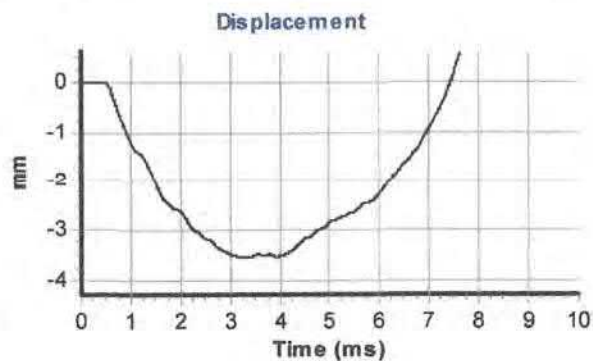
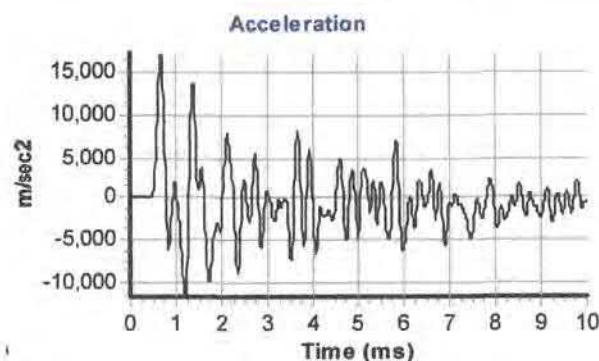
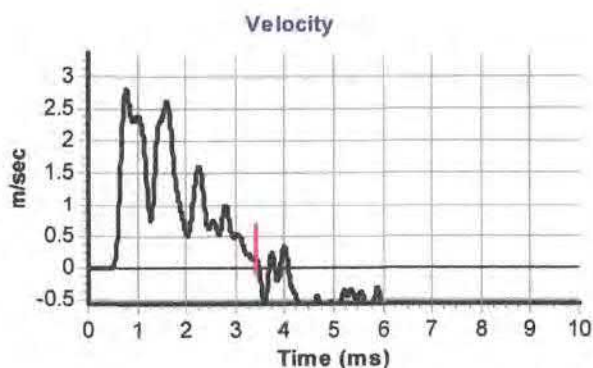
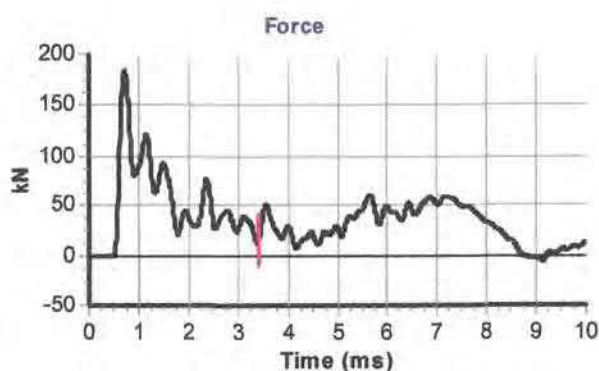
Instrumented Rod Data

Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.5
Assumed Modulus E_a (GPa): 208
Accelerometer No.1: 7080
Accelerometer No.2: 11609

SPT Hammer Information

Hammer Mass m (kg): 63.5
Falling Height h (mm): 760
SPT String Length L (m): 10.0

Comments / Location



Calculations

Area of Rod A (mm^2): 970
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 312

Energy Ratio E_r (%): **66**

Signed: S. HOWARTH
Title: FITTER

The recommended calibration interval is 12 months

Southern Testing
Keeble House
Stuart Way
East Grinstead
West Sussex
RH19 4QA

SPT Hammer Ref: AR23597
Test Date: 21/06/2019
Report Date: 21/06/2019
File Name: AR23597.spt
Test Operator: NPB

Instrumented Rod Data

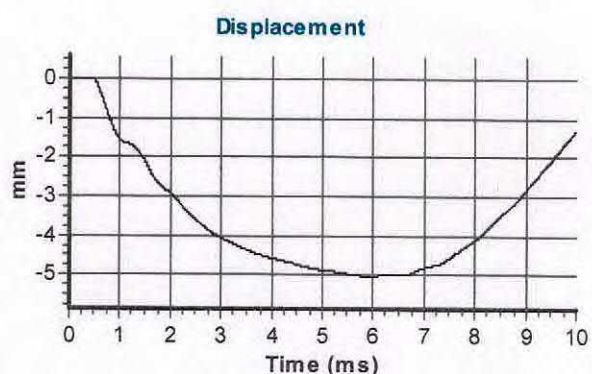
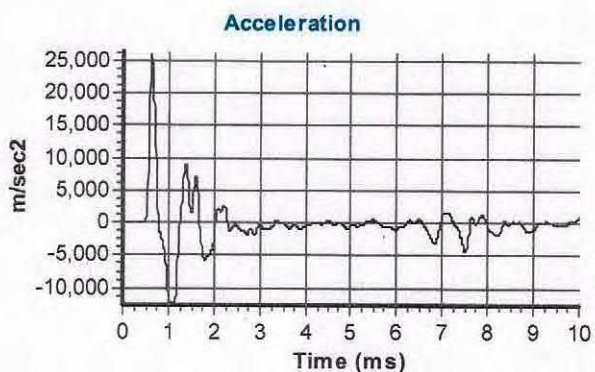
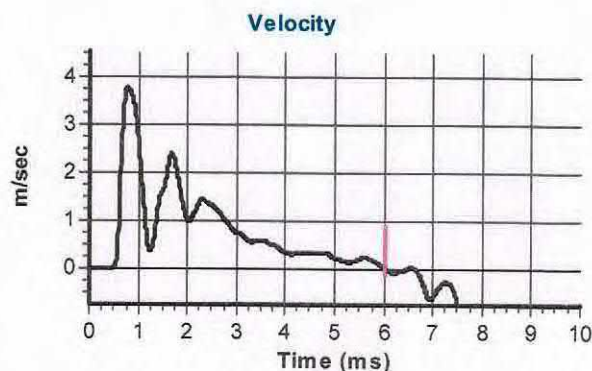
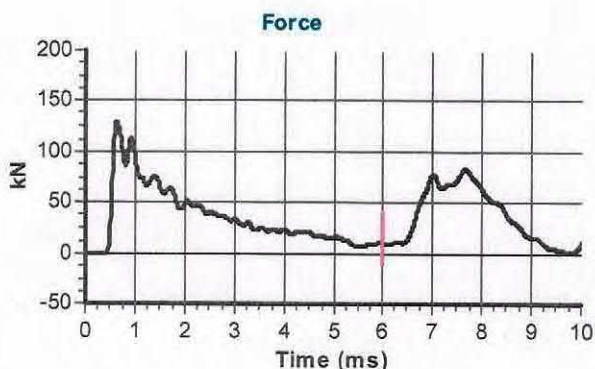
Diameter d_r (mm): 54
Wall Thickness t_r (mm): 6.0
Assumed Modulus E_a (GPa): 200
Accelerometer No.1: 6458
Accelerometer No.2: 9607

SPT Hammer Information

Hammer Mass m (kg): 63.5
Falling Height h (mm): 760
SPT String Length L (m): 14.5

Comments / Location

CHARLWOODS



Calculations

Area of Rod A (mm^2): 905
Theoretical Energy E_{theor} (J): 473
Measured Energy E_{meas} (J): 303

Energy Ratio E_r (%):

64

Signed: *Stuart Simmonds*

Title: Field Operations Technician

The recommended calibration interval is 12 months

CERTIFICATE OF CALIBRATION

ISSUED BY: LAMBDA CALIBRATION LTD

DATE OF ISSUE: 28-Aug-19

CERTIFICATE No: 569793



Lambda
CALIBRATION LTD

11-13 Chorley Central
Business Park
Stump Lane
Chorley
PR6 0BL
Tel: 0845 241 1533

Page 1 of 1
APPROVED SIGNATORY


W Pope A Scurr P Davies
J Carmichael K Quigley

Customer: Structural Soils Ltd, Bedminster, BS3 4EB

Item No: 003153

Manufacturer: Geonor

Description: Hand Held Shear Vane

Date of Cal: 28-Aug-19

Basis & Method: The unit under test (UUT) was calibrated by comparison with a digital torque analyser, According to the methodology outlined in BS EN ISO 6789: 2003, at approximately 20%, 60% & 95% of its full scale deflection.
Shear strength was then calculated in accordance with BS 1377: 1990 and is reported in the table at the foot of this certificate

Equipment Used: LTQA-05, LMB-2A-22, LTQT-08

Temperature & RH: Start: 21 degC Finish: 21 degC RH: <90%

Axis of Torque: Vertical Axis of Tool Handle: Vertical

Visual Examination: Satisfactory

Adjustments: None

Measured	Vane 1 (H)	50.5	Vane 1 (D)	25.5
Vane Sizes (mm):	Vane 2 (H)	39.9	Vane 2 (D)	19.8
	Vane 3 (H)	31.9	Vane 3 (D)	16.0

UUT Dial Readings v Torque Analyser Readings:

						Mean Readings	U (+/-) Nm	k
Actual Torque (N·m)	0.683	0.703	0.718	0.719	0.669	0.698	0.06	2.65
UUT Readings 20%	2.4	2.4	2.5	2.4	2.3	2.40		
Actual Torque (N·m)	2.051	2.036	2.105	2.001	2.028	2.044	0.11	2.43
UUT Readings 60%	7.2	7.2	7.2	7.2	7.2	7.20		
Actual Torque (N·m)	3.297	3.251	3.135	3.235	3.210	3.226	0.17	2.43
UUT Readings 95%	11.5	11.4	11.4	11.4	11.4	11.42		

Calculated Shear Strength Values:

UUT Mean Dial Readings	Mean Torque (N·m)	Vane 1 Shear Strength (kPa)	Vane 2 Shear Strength (kPa)	Vane 3 Shear Strength (kPa)
2.40	0.698	12	24	47
7.20	2.044	34	71	137
11.42	3.226	53	113	215

$1 \text{ kPa} = 1 \text{ kN/m}^2 = 0.101972 \text{ tonne/m}^2$ ($1 \text{ tonne/m}^2 = 9.80665 \text{ kPa}$)

The reported expanded uncertainty for torque U, is based on a standard uncertainty multiplied by a coverage factor k, providing a level of confidence of approximately 95%.

This certificate provides traceability of measurement to recognised national standards, and to the units of measurement realised at the National Physical Laboratory or other recognised national standards laboratories. This certificate may not be reproduced other than in full, without the prior written approval of the issuing laboratory.

**GEO-ENVIRONMENTAL INTERPRETATIVE REPORT (GIR) – HS2 DIVERSION WORKS - LON-41024
THE GREENWAY SEWER**

B1.2 Groundwater Lab Data 20-05191-1

FINAL ANALYTICAL TEST REPORT

Envirolab Job Number: 20/05191
Issue Number: 1
Date: 24 July, 2020

Client: Structural Soils Limited (Bristol)
The Old School
Stillhouse Lane
Bedminster
Bristol
UK
BS3 4EB

Project Manager: Tom Payne
Project Name: Greenway
Project Ref: 563166
Order No: N/A
Date Samples Received: 25/06/20
Date Instructions Received: 29/06/20
Date Analysis Completed: 24/07/20

Prepared by:

A handwritten signature in black ink that reads "Sophie France".

Sophie France
Client Service Manager

Approved by:

A handwritten signature in black ink, appearing to be "Richard Wong".

Richard Wong
Client Manager

Envirolab Job Number: 20/05191

Client Project Name: Greenway

Client Project Ref: 563166

Lab Sample ID	20/05191/1	20/05191/3	20/05191/4	20/05191/5	20/05191/6	20/05191/7	20/05191/8	Units	Limit of Detection	Method ref
Client Sample No	201	201	201	201	201	201	201			
Client Sample ID	BH1	BH3	BH4	BH5	BH6	BH7	BH8			
Depth to Top	11.70	13.40	13.20	18.50	17.00	16.00	18.00			
Depth To Bottom										
Date Sampled	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
pH (w) _A [#]	7.17	7.52	7.75	7.56	8.67	8.44	7.48	pH	0.01	A-T-031w
Sulphate (w) _A [#]	<1	77	223	82	133	322	118	mg/l	1	A-T-026w
Cyanide (free) (w) _A [#]	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/l	0.005	A-T-042wFCN
Cyanide (total) (w) _A [#]	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	mg/l	0.005	A-T-042wTCN
Phenols - Total by HPLC (w) _A	-	-	<0.01	<0.01	-	-	-	mg/l	0.01	A-T-050w
Arsenic (dissolved) _A [#]	5	<1	1	3	1	2	1	µg/l	1	A-T-025w
Boron (dissolved) _A [#]	603	161	1020	164	291	242	544	µg/l	10	A-T-025w
Cadmium (dissolved) _A [#]	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	<1	<1	<1	3	2	<1	<1	µg/l	1	A-T-025w
Chromium (dissolved) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-025w
Lead (dissolved) _A [#]	<1	<1	<1	1	2	<1	<1	µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	µg/l	0.1	A-T-025w
Nickel (dissolved) _A [#]	5	2	15	5	4	5	42	µg/l	1	A-T-025w
Selenium (dissolved) _A [#]	<1	<1	2	8	6	12	2	µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	31	20	321	12	131	30	119	µg/l	1	A-T-025w
Ali >C5-C6 (w) _A [#]	<1	<1	<1	<1	6	<1	<1	µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	<1	<1	2	<1	<1	<1	<1	µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	-	-	220	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	-	-	53	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	-	-	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	-	-	<5	<5	<5	<5	<5	µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	-	-	19	<5	<5	<5	<5	µg/l	5	A-T-055w
Total Aliphatics (w) _A [#]	-	-	295	<5	6	<5	<5	µg/l	5	A-T-055w
Aro >C5-C7 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	-	-	297	<5	10	<5	<5	µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	-	-	219	<5	9	<5	<5	µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	-	-	36	<5	11	<5	<5	µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	-	-	14	6	9	<5	<5	µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	-	-	14	<10	<10	<10	<10	µg/l	10	A-T-055w
Total Aromatics (w) _A	-	-	579	12	49	<10	<10	µg/l	10	A-T-055w
TPH (Ali & Aro >C5-C35) (w) _A	-	-	874	12	54	<10	<10	µg/l	10	A-T-055w
BTEX - Benzene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w

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Lab Sample ID	20/05191/1	20/05191/3	20/05191/4	20/05191/5	20/05191/6	20/05191/7	20/05191/8	Units	Limit of Detection	Method ref
Client Sample No	201	201	201	201	201	201	201			
Client Sample ID	BH1	BH3	BH4	BH5	BH6	BH7	BH8			
Depth to Top	11.70	13.40	13.20	18.50	17.00	16.00	18.00			
Depth To Bottom										
Date Sampled	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
BTEX - Toluene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - Ethyl Benzene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	<1	<1	<1	<1	<1	<1	<1	µg/l	1	A-T-022w
MTBE (w) _A [#]	<1	<1	<1	<1	5	<1	<1	µg/l	1	A-T-022w
OCP (incl. Atrazine and Simazine) (w)										
gamma-Hexachlorocyclohexane (HCH / Lindane) (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Dichlobenil (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Tecnazene (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Trifluralin (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
alpha-Hexachlorocyclohexane (HCH) (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Hexachlorobenzene (HCB) (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Simazine (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Atrazine (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
beta-Hexachlorocyclohexane (HCH) (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Quintozene (PCNB) (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Chlorothalonil (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
delta-Hexachlorocyclohexane (HCH) (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Triallate (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Heptachlor (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Aldrin (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Triadimefon (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Telodrin (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Isodrin (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Pendimethalin (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Heptachlor epoxide (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
trans-Chlordane (Gamma) (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
o,p-DDE (2,4) (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Endosulphan I (Alpha) (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
cis-Chlordane (Alpha) (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
p,p-DDE (4,4) (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Dieldrin (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w

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Lab Sample ID	20/05191/1	20/05191/3	20/05191/4	20/05191/5	20/05191/6	20/05191/7	20/05191/8	Units	Limit of Detection	Method ref
Client Sample No	201	201	201	201	201	201	201			
Client Sample ID	BH1	BH3	BH4	BH5	BH6	BH7	BH8			
Depth to Top	11.70	13.40	13.20	18.50	17.00	16.00	18.00			
Depth To Bottom										
Date Sampled	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
o,p-DDD (2,4) (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Endrin (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Endosulphan II (Beta) (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
p,p-DDD (4,4) (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
o,p-DDT (2,4) (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Endrin Aldehyde (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Endosulphan Sulphate (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
p,p-DDT (4,4) (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
o,p-Methoxychlor (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Endrin Ketone (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
p,p-Methoxychlor (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Permethrin I (cis) (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w
Permethrin II (trans) (w) _A	-	-	<0.1	-	-	<0.1	-	µg/l	0.1	A-T-056w

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Lab Sample ID	20/05191/1	20/05191/3	20/05191/4	20/05191/5	20/05191/6	20/05191/7	20/05191/8	Units	Limit of Detection	Method ref
Client Sample No	201	201	201	201	201	201	201			
Client Sample ID	BH1	BH3	BH4	BH5	BH6	BH7	BH8			
Depth to Top	11.70	13.40	13.20	18.50	17.00	16.00	18.00			
Depth To Bottom										
Date Sampled	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
PAH 16MS (w)										
Acenaphthene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	0.02	µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	0.04	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	0.02	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	0.06	<0.01	0.04	<0.01	<0.01	0.01	0.02	µg/l	0.01	A-T-019w

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Lab Sample ID	20/05191/1	20/05191/3	20/05191/4	20/05191/5	20/05191/6	20/05191/7	20/05191/8	Units	Limit of Detection	Method ref
Client Sample No	201	201	201	201	201	201	201			
Client Sample ID	BH1	BH3	BH4	BH5	BH6	BH7	BH8			
Depth to Top	11.70	13.40	13.20	18.50	17.00	16.00	18.00			
Depth To Bottom										
Date Sampled	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
VOC (w)										
Dichlorodifluoromethane _A	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
Chloromethane _A	-	-	<10	<10	-	-	-	µg/l	10	A-T-006w
Vinyl Chloride _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
Bromomethane _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
Chloroethane _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
Trichlorofluoromethane _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
trans 1,2-Dichloroethene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
Dichloromethane _A	-	-	<5	<5	-	-	-	µg/l	5	A-T-006w
Carbon Disulphide _A [#]	-	-	1	<1	-	-	-	µg/l	1	A-T-006w
1,1-Dichloroethene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
1,1-Dichloroethane _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
cis 1,2-Dichloroethene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
Bromochloromethane _A [#]	-	-	<5	<5	-	-	-	µg/l	5	A-T-006w
Chloroform _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
2,2-Dichloropropane _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
1,2-Dichloroethane _A [#]	-	-	<2	<2	-	-	-	µg/l	2	A-T-006w
1,1,1-Trichloroethane _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
1,1-Dichloropropene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
Benzene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
Carbon Tetrachloride _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
Dibromomethane _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
1,2-Dichloropropane _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
Bromodichloromethane _A [#]	-	-	<10	<10	-	-	-	µg/l	10	A-T-006w
Trichloroethene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
cis 1,3-Dichloropropene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
trans 1,3-Dichloropropene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
1,1,2-Trichloroethane _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
Toluene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
1,3-Dichloropropane _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
Dibromochloromethane _A [#]	-	-	<3	<3	-	-	-	µg/l	3	A-T-006w
1,2-Dibromoethane _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
Tetrachloroethene _A	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w

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Lab Sample ID	20/05191/1	20/05191/3	20/05191/4	20/05191/5	20/05191/6	20/05191/7	20/05191/8	Units	Limit of Detection	Method ref
Client Sample No	201	201	201	201	201	201	201			
Client Sample ID	BH1	BH3	BH4	BH5	BH6	BH7	BH8			
Depth to Top	11.70	13.40	13.20	18.50	17.00	16.00	18.00			
Depth To Bottom										
Date Sampled	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20	23-Jun-20			
Sample Type	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW	Water - EW			
Sample Matrix Code	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
1,1,1,2-Tetrachloroethane _A	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
Chlorobenzene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
Ethylbenzene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
m & p Xylene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
Bromoform _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
Styrene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
1,1,2,2-Tetrachloroethane _A	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
o-Xylene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
1,2,3-Trichloropropane _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
Isopropylbenzene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
Bromobenzene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
2-Chlorotoluene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
n-propylbenzene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
4-Chlorotoluene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
1,2,4-Trimethylbenzene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
4-Isopropyltoluene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
1,3,5-Trimethylbenzene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
1,2-Dichlorobenzene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
1,4-Dichlorobenzene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
sec-Butylbenzene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
tert-Butylbenzene _A [#]	-	-	<2	<2	-	-	-	µg/l	2	A-T-006w
1,3-Dichlorobenzene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
n-butylbenzene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w
1,2-Dibromo-3-chloropropane _A [#]	-	-	<2	<2	-	-	-	µg/l	2	A-T-006w
1,2,4-Trichlorobenzene _A [#]	-	-	<3	<3	-	-	-	µg/l	3	A-T-006w
1,2,3-Trichlorobenzene _A [#]	-	-	<3	<3	-	-	-	µg/l	3	A-T-006w
Hexachlorobutadiene _A [#]	-	-	<1	<1	-	-	-	µg/l	1	A-T-006w

Envirolab Job Number: 20/05191

Client Project Name: Greenway

Client Project Ref: 563166

Lab Sample ID	20/05191/9	20/05191/10	20/05191/11					Units	Limit of Detection	Method ref
Client Sample No	202									
Client Sample ID	BH1	BH2	BH3							
Depth to Top	11.90	12.00	12.00							
Depth To Bottom										
Date Sampled	07-Jul-20	07-Jul-20	07-Jul-20							
Sample Type	Water - EW	Water - EW	Water - EW							
Sample Matrix Code	N/A	N/A	N/A							
pH (w) _A [#]	-	7.58	-					pH	0.01	A-T-031w
Sulphate (w) _A [#]	-	9	-					mg/l	1	A-T-026w
Cyanide (free) (w) _A [#]	-	<0.005	-					mg/l	0.005	A-T-042w/FCN
Cyanide (total) (w) _A [#]	-	<0.005	-					mg/l	0.005	A-T-042w/TCN
Arsenic (dissolved) _A [#]	-	<1	-					µg/l	1	A-T-025w
Boron (dissolved) _A [#]	-	91	-					µg/l	10	A-T-025w
Cadmium (dissolved) _A [#]	-	<0.2	-					µg/l	0.2	A-T-025w
Copper (dissolved) _A [#]	-	<1	-					µg/l	1	A-T-025w
Chromium (dissolved) _A [#]	-	<1	-					µg/l	1	A-T-025w
Lead (dissolved) _A [#]	-	<1	-					µg/l	1	A-T-025w
Mercury (dissolved) _A [#]	-	<0.1	-					µg/l	0.1	A-T-025w
Nickel (dissolved) _A [#]	-	13	-					µg/l	1	A-T-025w
Selenium (dissolved) _A [#]	-	<1	-					µg/l	1	A-T-025w
Zinc (dissolved) _A [#]	-	1	-					µg/l	1	A-T-025w
Ali >C5-C6 (w) _A [#]	-	<1	-					µg/l	1	A-T-022w
Ali >C6-C8 (w) _A [#]	-	<1	-					µg/l	1	A-T-022w
Ali >C8-C10 (w) _A [#]	14	8	149					µg/l	5	A-T-055w
Ali >C10-C12 (w) _A [#]	<5	<5	122					µg/l	5	A-T-055w
Ali >C12-C16 (w) _A [#]	<5	<5	6					µg/l	5	A-T-055w
Ali >C16-C21 (w) _A [#]	<5	<5	9					µg/l	5	A-T-055w
Ali >C21-C35 (w) _A [#]	<5	11	97					µg/l	5	A-T-055w
Total Aliphatics (w) _A [#]	14	19	382					µg/l	5	A-T-055w
Aro >C5-C7 (w) _A [#]	-	<1	-					µg/l	1	A-T-022w
Aro >C7-C8 (w) _A [#]	-	<1	-					µg/l	1	A-T-022w
Aro >C8-C10 (w) _A	17	51	214					µg/l	5	A-T-055w
Aro >C10-C12 (w) _A [#]	7	37	161					µg/l	5	A-T-055w
Aro >C12-C16 (w) _A [#]	9	33	19					µg/l	5	A-T-055w
Aro >C16-C21 (w) _A [#]	9	32	14					µg/l	5	A-T-055w
Aro >C21-C35 (w) _A [#]	20	39	38					µg/l	10	A-T-055w
Total Aromatics (w) _A	62	192	446					µg/l	10	A-T-055w
TPH (Ali & Aro >C5-C35) (w) _A	76	211	828					µg/l	10	A-T-055w
BTEX - Benzene (w) _A [#]	-	<1	-					µg/l	1	A-T-022w
BTEX - Toluene (w) _A [#]	-	<1	-					µg/l	1	A-T-022w

Envirolab Job Number: 20/05191

Client Project Name: Greenway

Client Project Ref: 563166

Lab Sample ID	20/05191/9	20/05191/10	20/05191/11					Units	Limit of Detection	Method ref
Client Sample No	202									
Client Sample ID	BH1	BH2	BH3							
Depth to Top	11.90	12.00	12.00							
Depth To Bottom										
Date Sampled	07-Jul-20	07-Jul-20	07-Jul-20							
Sample Type	Water - EW	Water - EW	Water - EW							
Sample Matrix Code	N/A	N/A	N/A							
BTEX - Ethyl Benzene (w) _A [#]	-	<1	-					µg/l	1	A-T-022w
BTEX - m & p Xylene (w) _A [#]	-	<1	-					µg/l	1	A-T-022w
BTEX - o Xylene (w) _A [#]	-	<1	-					µg/l	1	A-T-022w
MTBE (w) _A [#]	-	<1	-					µg/l	1	A-T-022w
OCP (incl. Atrazine and Simazine) (w)										
gamma-Hexachlorocyclohexane (HCH / Lindane) (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Dichlobenil (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Tecnazene (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Trifluralin (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
alpha-Hexachlorocyclohexane (HCH) (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Hexachlorobenzene (HCB) (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Simazine (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Atrazine (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
beta-Hexachlorocyclohexane (HCH) (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Quintozone (PCNB) (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Chlorothalonil (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
delta-Hexachlorocyclohexane (HCH) (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Triallate (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Heptachlor (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Aldrin (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Triadimefon (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Telodrin (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Isodrin (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Pendimethalin (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Heptachlor epoxide (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
trans-Chlordane (Gamma) (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
o,p-DDE (2,4) (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Endosulphan I (Alpha) (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
cis-Chlordane (Alpha) (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
p,p-DDE (4,4) (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Dieldrin (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
o,p-DDD (2,4) (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w

Envirolab Job Number: 20/05191

Client Project Name: Greenway

Client Project Ref: 563166

Lab Sample ID	20/05191/9	20/05191/10	20/05191/11					Units	Limit of Detection	Method ref
Client Sample No	202									
Client Sample ID	BH1	BH2	BH3							
Depth to Top	11.90	12.00	12.00							
Depth To Bottom										
Date Sampled	07-Jul-20	07-Jul-20	07-Jul-20							
Sample Type	Water - EW	Water - EW	Water - EW							
Sample Matrix Code	N/A	N/A	N/A							
Endrin (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Endosulphan II (Beta) (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
p,p-DDD (4,4) (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
o,p-DDT (2,4) (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Endrin Aldehyde (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Endosulphan Sulphate (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
p,p-DDT (4,4) (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
o,p-Methoxychlor (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Endrin Ketone (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
p,p-Methoxychlor (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Permethrin I (cis) (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w
Permethrin II (trans) (w) _A	-	<0.1	-					µg/l	0.1	A-T-056w

Envirolab Job Number: 20/05191

Client Project Name: Greenway

Client Project Ref: 563166

Lab Sample ID	20/05191/9	20/05191/10	20/05191/11					Units	Limit of Detection	Method ref
Client Sample No	202									
Client Sample ID	BH1	BH2	BH3							
Depth to Top	11.90	12.00	12.00							
Depth To Bottom										
Date Sampled	07-Jul-20	07-Jul-20	07-Jul-20							
Sample Type	Water - EW	Water - EW	Water - EW							
Sample Matrix Code	N/A	N/A	N/A							
PAH 16MS (w)										
Acenaphthene (w) _A [#]	-	<0.01	-					µg/l	0.01	A-T-019w
Acenaphthylene (w) _A [#]	-	<0.01	-					µg/l	0.01	A-T-019w
Anthracene (w) _A [#]	-	<0.01	-					µg/l	0.01	A-T-019w
Benzo(a)anthracene (w) _A [#]	-	<0.01	-					µg/l	0.01	A-T-019w
Benzo(a)pyrene (w) _A [#]	-	<0.01	-					µg/l	0.01	A-T-019w
Benzo(b)fluoranthene (w) _A [#]	-	<0.01	-					µg/l	0.01	A-T-019w
Benzo(ghi)perylene (w) _A [#]	-	<0.01	-					µg/l	0.01	A-T-019w
Benzo(k)fluoranthene (w) _A [#]	-	<0.01	-					µg/l	0.01	A-T-019w
Chrysene (w) _A [#]	-	<0.01	-					µg/l	0.01	A-T-019w
Dibenzo(ah)anthracene (w) _A [#]	-	<0.01	-					µg/l	0.01	A-T-019w
Fluoranthene (w) _A [#]	-	<0.01	-					µg/l	0.01	A-T-019w
Fluorene (w) _A [#]	-	<0.01	-					µg/l	0.01	A-T-019w
Indeno(123-cd)pyrene (w) _A [#]	-	<0.01	-					µg/l	0.01	A-T-019w
Naphthalene (w) _A [#]	-	0.02	-					µg/l	0.01	A-T-019w
Phenanthrene (w) _A [#]	-	0.01	-					µg/l	0.01	A-T-019w
Pyrene (w) _A [#]	-	<0.01	-					µg/l	0.01	A-T-019w
Total PAH 16MS (w) _A [#]	-	0.03	-					µg/l	0.01	A-T-019w

REPORT NOTES

General

This report shall not be reproduced, except in full, without written approval from Envirolab.

The results reported herein relate only to the material supplied to the laboratory.

The residue of any samples contained within this report, and any received with the same delivery, will be disposed of six weeks after initial scheduling. For samples tested for Asbestos we will retain a portion of the dried sample for a minimum of six months after the initial Asbestos testing is completed.

Analytical results reflect the quality of the sample at the time of analysis only.

Opinions and interpretations expressed are outside the scope of our accreditation.

If results are in italic font they are associated with an AQC failure, these are not accredited and are unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid.

The Client Sample No, Client Sample ID, Depth to Top, Depth to Bottom and Date Sampled were all provided by the client.

Soil chemical analysis:

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones, brick and concrete fragments >10mm and any extraneous material (visible glass, metal or twigs) are removed and excluded from the sample prior to analysis and reported results corrected to a whole sample basis. This is reported as '% stones >10mm'.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis and this supersedes any "A" subscripts

All analysis is performed on the sample as received for soil samples which are positive for asbestos or the client has informed asbestos may be present and/or if they are from outside the European Union and this supersedes any "D" subscripts.

TPH analysis of water by method A-T-007:

Free and visible oils are excluded from the sample used for analysis so that the reported result represents the dissolved phase only.

Electrical Conductivity of water by Method A-T-037:

Results greater than 12900µS/cm @ 25°C / 11550µS/cm @ 20°C fall outside the calibration range and as such are unaccredited.

Asbestos:

Asbestos in soil analysis is performed on a dried aliquot of the submitted sample and cannot guarantee to identify asbestos if only present in small numbers as discrete fibres/fragments in the original sample.

Stones etc. are not removed from the sample prior to analysis.

Quantification of asbestos is a 3 stage process including visual identification, hand picking and weighing and fibre counting by sedimentation/phase contrast optical microscopy if required. If asbestos is identified as being present but is not in a form that is suitable for analysis by hand picking and weighing (normally if the asbestos is present as free fibres) quantification by sedimentation is performed.

Where ACMs are found a percentage asbestos is assigned to each with reference to 'HSG264, Asbestos: The survey guide' and the calculated asbestos content is expressed as a percentage of the dried soil sample aliquot used.

Predominant Matrix Codes:

1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample.

Samples with Matrix Code 7 & 8 are not predominantly a SAND/LOAM/CLAY mix and are not covered by our BSEN 17025 or MCERTS accreditations, with the exception of bulk asbestos which are BSEN 17025 accredited.

Secondary Matrix Codes:

A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal,

E = contains roots/twigs.

Key:

IS indicates Insufficient Sample for analysis.

US indicates Unsuitable Sample for analysis.

NDP indicates No Determination Possible.

NAD indicates No Asbestos Detected.

N/A indicates Not Applicable.

Superscript # indicates method accredited to ISO 17025.

Superscript "M" indicates method accredited to MCERTS.

Subscript "A" indicates analysis performed on the sample as received.

Subscript "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve

Please contact us if you need any further information.



Envirolab Deviating Samples Report

Units 7&8 Sandpits Business Park, Mottram Road, Hyde, SK14 3AR
Tel. 0161 368 4921 email. ask@envirolab.co.uk

Client: Structural Soils Limited (Bristol), The Old School , Stillhouse Lane, Bedminster,
Bristol, UK, BS3 4EB

Project No: 20/05191

Project: Greenway

Date Received: 29/06/2020 (am)

Clients Project No: 563166

Cool Box Temperatures (°C): 24.4, 24.9

Lab Sample ID	20/05191/10
Client Sample No	
Client Sample ID/Depth	BH2 12.00m
Date Sampled	07/07/20
Deviation Code	
A7 (no HNO3)	✓

Key
A7 (no HNO3) No HNO3 preserved bottle provided (dissolved metals will be deviating)

If, at any point before reaching the laboratory, the temperature of the samples has breached those set in published standards, e.g. BS-EN 5667-3, ISO 18400-102:2017, then the concentration of any affected analytes may differ from that at the time of sampling.

**GEO-ENVIRONMENTAL INTERPRETATIVE REPORT (GIR) – HS2 DIVERSION WORKS - LON-41024
THE GREENWAY SEWER**

B.1.3 Revised 563166 Gas Monitoring Data September 2020

IN-SITU GAS MONITORING RESULTS

	Start Date	End Date	Previous	Pressures	Start	End	Equipment Used & Remarks
Round 1	15/06/2020	16/06/2020	Constant	Falling	1011	1009	GA5000 Dipmeter Summary: Gas + Water
Round 2	23/06/2020	23/06/2020	Constant	Constant	1021	1020	GA5000 Dipmeter Summary: Gas + Water
Round 3	07/07/2020	07/07/2020	Constant	Falling	1018	1017	GA5000 Dipmeter Summary: Gas + Water
Round 4	04/08/2020	04/08/2020	Constant	Fluctuating	1014	1014	GA5000 Dipmeter Summary: Gas & Water

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH1	1	19	1	12.30	---	9.75 to 12.30	16/06/2020 09:30:35	1018	1011	0.2 _(I)	-	-	-	-	-	-	-	-
BH1	1	19	1		---	9.75 to 12.30	55 secs	-	-	0.2 _(SS)	-	-	-	-	-	-	-	-
BH1	1	19	1 (2)	12.30	---	9.75 to 12.30	16/06/2020 09:35:23	-	-	-	-	0.9	0.0	20.0	0.0	0.0	16	0
BH1	1	19	1 (2)		---	9.75 to 12.30	15 secs	-	-	-	-	0.9	0.0	16.2	0.0	-	26	0
BH1	1	19	1 (2)		---	9.75 to 12.30	60 secs	-	-	-	-	1.0	0.0	15.2	0.0	-	27	0
BH1	1	19	1 (2)		---	9.75 to 12.30	90 secs	-	-	-	-	0.9	0.0	15.1	0.0	-	24	0
BH1	1	19	1 (2)		---	9.75 to 12.30	120 secs	-	-	-	-	0.9	0.0	15.2	0.0	-	21	0
BH1	1	19	1 (2)		---	9.75 to 12.30	180 secs	-	-	-	-	0.9	0.0	15.2	0.0	-	18	0
BH1	1	19	1 (2)		---	9.75 to 12.30	240 secs	-	-	-	-	0.9	0.0	15.3	0.0	-	15	0
BH1	1	19	1 (2)		---	9.75 to 12.30	300 secs	-	-	-	-	0.9	0.0	15.4	0.0	-	13	0
BH1	1	19	1 (3)	12.30	10.58	9.75 to 12.30	16/06/2020 11:00:55	-	-	-	4.68	-	-	-	-	-	-	-
Remarks: Pipe silted up. Pump intake pipe installed to 10.50m depth, water level drawn down to 7.30m at end of development.																		
BH1	1	19	2	12.30	---	9.75 to 12.30	23/06/2020 16:03:26	1055	1019	8.4 _(I)	-	-	-	-	-	-	-	-
BH1	1	19	2		---	9.75 to 12.30	40 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH1	1	19	2 (2)	12.30	---	9.75 to 12.30	23/06/2020 16:07:45	-	-	-	-	0.0	0.0	21.3	0.0	0.0	3	0
BH1	1	19	2 (2)		---	9.75 to 12.30	15 secs	-	-	-	-	0.2	0.0	20.7	0.0	-	6	0
BH1	1	19	2 (2)		---	9.75 to 12.30	30 secs	-	-	-	-	0.2	0.0	20.5	0.0	-	7	0
BH1	1	19	2 (2)		---	9.75 to 12.30	60 secs	-	-	-	-	0.2	0.0	20.4	0.0	-	8	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
	<i>Adh Lee</i>	23/09/20	<i>Adh Lee</i>	23/09/20	563166
Contract: Greenway					Page: 1 of 21 

IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH1	1	19	2 (2)		---	9.75 to 12.30	90 secs	-	-	-	-	0.2	0.0	20.3	0.0	-	8	0
BH1	1	19	2 (2)		---	9.75 to 12.30	120 secs	-	-	-	-	0.2	0.0	20.3	0.0	-	8	0
BH1	1	19	2 (2)		---	9.75 to 12.30	240 secs	-	-	-	-	0.2	0.0	20.2	0.0	-	8	0
BH1	1	19	2 (2)		---	9.75 to 12.30	300 secs	-	-	-	-	0.2	0.0	20.2	0.0	-	8	0
BH1	1	19	2 (2)		---	9.75 to 12.30	360 secs	-	-	-	-	0.2	0.0	20.2	0.0	-	8	0
BH1	1	19	2 (3)	12.30	11.71	9.75 to 12.30	23/06/2020 16:14:45	-	-	-	3.71	-	-	-	-	-	-	-
BH1	1	19	3	12.30	---	9.75 to 12.30	07/07/2020 09:01:00	1019	1019	0.0 _(I)	-	-	-	-	-	-	-	-
BH1	1	19	3		---	9.75 to 12.30	30 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH1	1	19	3 (2)	12.30	---	9.75 to 12.30	07/07/2020 09:04:16	-	-	-	-	0.4	0.0	20.4	0.0	0.0	2	0
BH1	1	19	3 (2)		---	9.75 to 12.30	15 secs	-	-	-	-	0.4	0.0	20.7	0.0	-	3	0
BH1	1	19	3 (2)		---	9.75 to 12.30	30 secs	-	-	-	-	0.4	0.0	20.4	0.0	-	2	0
BH1	1	19	3 (2)		---	9.75 to 12.30	60 secs	-	-	-	-	0.4	0.0	20.4	0.0	-	2	0
BH1	1	19	3 (2)		---	9.75 to 12.30	90 secs	-	-	-	-	0.4	0.0	20.4	0.0	-	2	0
BH1	1	19	3 (2)		---	9.75 to 12.30	120 secs	-	-	-	-	0.4	0.0	20.4	0.0	-	2	0
BH1	1	19	3 (2)		---	9.75 to 12.30	180 secs	-	-	-	-	0.4	0.0	20.4	0.0	-	2	0
BH1	1	19	3 (2)		---	9.75 to 12.30	240 secs	-	-	-	-	0.4	0.0	20.4	0.0	-	2	0
BH1	1	19	3 (2)		---	9.75 to 12.30	300 secs	-	-	-	-	0.1	0.0	21.0	0.0	-	0	0
BH1	1	19	3 (3)	12.30	11.97	9.75 to 12.30	07/07/2020 09:16:00	-	-	-	3.12	-	-	-	-	-	-	-
BH1	1	19	4	12.30	---	9.75 to 12.30	04/08/2020 09:42:08	1014	1014	0.0 _(I)	-	-	-	-	-	-	-	-
BH1	1	19	4 (2)	12.30	---	9.75 to 12.30	04/08/2020 09:42:38	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH1	1	19	4 (2)	12.30	---	9.75 to 12.30	04/08/2020 09:45:38	-	-	-	-	0.1	0.2	21.3	0.0	0.0	0	0
BH1	1	19	4 (2)		---	9.75 to 12.30	30 secs	-	-	-	-	0.1	0.0	21.3	4.0	-	0	0
BH1	1	19	4 (2)		---	9.75 to 12.30	60 secs	-	-	-	-	0.1	0.0	21.3	0.0	-	0	0
BH1	1	19	4 (2)		---	9.75 to 12.30	90 secs	-	-	-	-	0.1	0.0	21.3	0.0	-	0	0
BH1	1	19	4 (2)		---	9.75 to 12.30	120 secs	-	-	-	-	0.1	0.0	21.3	0.0	-	0	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
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IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH1	1	19	4 (2)		---	9.75 to 12.30	180 secs	-	-	-	-	0.1	0.0	21.3	0.0	-	0	0
BH1	1	19	4 (2)		---	9.75 to 12.30	240 secs	-	-	-	-	0.1	0.0	21.4	0.0	-	0	0
BH1	1	19	4 (3)	12.30	11.81	9.75 to 12.30	04/08/2020 09:50:48	-	-	-	2.91	-	-	-	0.0	-	-	-
BH1	1	19	4 (2)	12.30	---	9.75 to 12.30	04/08/2020 09:55:48	-	-	-	-	0.0	0.0	21.4	0.0	-	0	0
BH1	2	42	1 (3)	2.00	---	1.00 to 2.00	16/06/2020 09:41:09	-	-	-	-	-	-	-	-	-	-	-
	Remarks: Water level not recorded (error made using data logger).																	
BH1	2	42	1	2.00	---	1.00 to 2.00	16/06/2020 10:51:23	1010	1011	0.0 _(I)	-	-	-	-	-	-	-	-
BH1	2	42	1		---	1.00 to 2.00	30 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH1	2	42	1 (2)	2.00	---	1.00 to 2.00	16/06/2020 10:54:55	-	-	-	-	0.0	0.0	20.7	0.0	0.0	2	0
BH1	2	42	1 (2)		---	1.00 to 2.00	15 secs	-	-	-	-	0.0	0.0	20.8	0.0	-	2	0
BH1	2	42	1 (2)		---	1.00 to 2.00	30 secs	-	-	-	-	0.0	0.0	20.8	0.0	-	2	0
BH1	2	42	1 (2)		---	1.00 to 2.00	60 secs	-	-	-	-	0.0	0.0	20.8	0.0	-	2	0
BH1	2	42	1 (2)		---	1.00 to 2.00	90 secs	-	-	-	-	0.0	0.0	20.8	0.0	-	2	0
BH1	2	42	1 (2)		---	1.00 to 2.00	120 secs	-	-	-	-	0.0	0.0	20.8	0.0	-	2	0
BH1	2	42	1 (2)		---	1.00 to 2.00	180 secs	-	-	-	-	0.0	0.0	20.8	0.0	-	2	0
BH1	2	42	1 (2)		---	1.00 to 2.00	240 secs	-	-	-	-	0.0	0.0	20.9	0.0	-	2	0
BH1	2	42	1 (2)		---	1.00 to 2.00	300 secs	-	-	-	-	0.0	0.0	20.9	0.0	-	2	0
BH1	2	42	2	2.00	---	1.00 to 2.00	23/06/2020 16:22:14	1020	1019	0.1 _(I)	-	-	-	-	-	-	-	-
BH1	2	42	2		---	1.00 to 2.00	50 secs	-	-	0.2 _(SS)	-	-	-	-	-	-	-	-
BH1	2	42	2 (2)	2.00	---	1.00 to 2.00	23/06/2020 16:25:46	-	-	-	-	0.0	0.0	21.2	0.0	0.0	3	0
BH1	2	42	2 (2)		---	1.00 to 2.00	15 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	4	0
BH1	2	42	2 (2)		---	1.00 to 2.00	30 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	3	0
BH1	2	42	2 (2)		---	1.00 to 2.00	60 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	3	0
BH1	2	42	2 (2)		---	1.00 to 2.00	90 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	3	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
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IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH1	2	42	2 (2)		---	1.00 to 2.00	120 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	3	0
BH1	2	42	2 (2)		---	1.00 to 2.00	180 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	3	0
BH1	2	42	2 (2)		---	1.00 to 2.00	240 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	3	0
BH1	2	42	2 (2)		---	1.00 to 2.00	300 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	3	0
BH1	2	42	2 (3)	2.00	2.01	1.00 to 2.00	23/06/2020 16:34:54	-	-	-	0.11	-	-	-	-	-	-	-
BH1	2	42	3	2.00	---	1.00 to 2.00	07/07/2020 09:32:58	1018	1018	0.0 _(I)	-	-	-	-	-	-	-	-
BH1	2	42	3		---	1.00 to 2.00	30 secs	-	-	0.1 _(SS)	-	-	-	-	-	-	-	-
BH1	2	42	3 (2)	2.00	---	1.00 to 2.00	07/07/2020 09:35:43	-	-	-	-	0.1	0.0	21.1	0.0	0.0	0	0
BH1	2	42	3 (2)		---	1.00 to 2.00	15 secs	-	-	-	-	0.1	0.0	21.1	0.0	-	1	0
BH1	2	42	3 (2)		---	1.00 to 2.00	30 secs	-	-	-	-	0.1	0.0	21.1	0.0	-	1	0
BH1	2	42	3 (2)		---	1.00 to 2.00	61 secs	-	-	-	-	0.1	0.0	21.1	0.0	-	1	0
BH1	2	42	3 (2)		---	1.00 to 2.00	92 secs	-	-	-	-	0.1	0.0	21.2	0.0	-	1	0
BH1	2	42	3 (2)		---	1.00 to 2.00	122 secs	-	-	-	-	0.1	0.0	21.2	0.0	-	1	0
BH1	2	42	3 (2)		---	1.00 to 2.00	182 secs	-	-	-	-	0.1	0.0	21.2	0.0	-	1	0
BH1	2	42	3 (2)		---	1.00 to 2.00	242 secs	-	-	-	-	0.1	0.0	21.1	0.0	-	1	0
BH1	2	42	3 (2)		---	1.00 to 2.00	302 secs	-	-	-	-	0.1	0.0	21.1	0.0	-	1	0
BH1	2	42	3 (3)	2.00	---	1.00 to 2.00	07/07/2020 09:41:45	-	-	-	-	-	-	-	-	-	-	-
Remarks: Water level not recorded (error made using data logger).																		
BH1	2	42	4	2.00	---	1.00 to 2.00	04/08/2020 09:22:43	1024	1014	0.0 _(I)	-	-	-	-	-	-	-	-
BH1	2	42	4		---	1.00 to 2.00	45 secs	-	-	1.5 _(SS)	-	-	-	-	-	-	-	-
BH1	2	42	4 (2)	2.00	---	1.00 to 2.00	04/08/2020 09:27:01	-	-	-	-	0.5	0.0	21.1	0.0	0.0	0	0
BH1	2	42	4 (2)		---	1.00 to 2.00	15 secs	-	-	-	-	0.5	0.0	20.3	0.0	-	2	0
BH1	2	42	4 (2)		---	1.00 to 2.00	45 secs	-	-	-	-	0.5	0.0	20.3	0.0	-	2	0
BH1	2	42	4 (2)		---	1.00 to 2.00	60 secs	-	-	-	-	0.5	0.0	20.3	0.0	-	2	0
BH1	2	42	4 (2)		---	1.00 to 2.00	90 secs	-	-	-	-	0.5	0.0	20.3	0.0	-	2	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
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IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH1	2	42	4 (2)		---	1.00 to 2.00	150 secs	-	-	-	-	0.5	0.0	20.3	0.0	-	2	0
BH1	2	42	4 (2)		---	1.00 to 2.00	210 secs	-	-	-	-	0.5	0.0	20.3	0.0	-	2	0
BH1	2	42	4 (3)	2.00	11.81	1.00 to 2.00	04/08/2020 09:31:48	-	-	-	2.91	-	-	-	-	-	-	-
BH2	1	19	1	15.80	---	11.70 to 15.80	16/06/2020 11:31:29	881	1010	0.0 _(I)	-	-	-	-	-	-	-	-
BH2	1	19	1		---	11.70 to 15.80	30 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH2	1	19	1 (2)	15.80	---	11.70 to 15.80	16/06/2020 11:34:41	-	-	-	-	0.0	0.0	21.9	0.0	-	2	0
BH2	1	19	1 (2)		---	11.70 to 15.80	15 secs	-	-	-	-	0.0	0.0	21.8	0.0	-	282	1
BH2	1	19	1 (2)		---	11.70 to 15.80	30 secs	-	-	-	-	0.0	0.0	21.6	0.0	-	435	2
BH2	1	19	1 (2)		---	11.70 to 15.80	60 secs	-	-	-	-	0.0	0.0	21.6	0.0	-	389	3
BH2	1	19	1 (2)		---	11.70 to 15.80	90 secs	-	-	-	-	0.0	0.0	21.6	0.0	-	373	3
BH2	1	19	1 (2)		---	11.70 to 15.80	120 secs	-	-	-	-	0.0	0.0	21.6	0.0	-	369	3
BH2	1	19	1 (2)		---	11.70 to 15.80	180 secs	-	-	-	-	0.0	0.0	21.5	0.0	-	374	3
BH2	1	19	1 (2)		---	11.70 to 15.80	240 secs	-	-	-	-	0.0	0.0	21.5	0.0	-	385	3
BH2	1	19	1 (2)		---	11.70 to 15.80	300 secs	-	-	-	-	0.0	0.0	21.4	0.0	-	395	3
BH2	1	19	1 (3)	15.80	8.58	11.70 to 15.80	16/06/2020 11:40:00	-	-	-	0.08	-	-	-	-	-	-	-
Remarks: Pipe silted up. Well developed with pump intake pipe installed to 14.00m, water level drawn down to 7.30m and recovered to 2.30m. No PID measurement made.																		
BH2	1	19	2	15.80	---	11.70 to 15.80	23/06/2020 14:52:49	1021	1020	0.0 _(I)	-	-	-	-	-	-	-	-
BH2	1	19	2		---	11.70 to 15.80	35 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH2	1	19	2 (2)	15.80	---	11.70 to 15.80	23/06/2020 14:56:35	-	-	-	-	0.0	0.0	21.3	0.0	0.0	3	0
BH2	1	19	2 (2)		---	11.70 to 15.80	15 secs	-	-	-	-	0.0	0.0	21.1	0.0	-	32	0
BH2	1	19	2 (2)		---	11.70 to 15.80	30 secs	-	-	-	-	0.2	0.0	20.6	0.0	-	40	0
BH2	1	19	2 (2)		---	11.70 to 15.80	60 secs	-	-	-	-	0.2	0.0	20.3	0.0	-	24	0
BH2	1	19	2 (2)		---	11.70 to 15.80	90 secs	-	-	-	-	0.2	0.0	20.2	0.0	-	18	0
BH2	1	19	2 (2)		---	11.70 to 15.80	120 secs	-	-	-	-	0.2	0.0	20.3	0.0	-	17	0
BH2	1	19	2 (2)		---	11.70 to 15.80	180 secs	-	-	-	-	0.2	0.0	20.3	0.0	-	15	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
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IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH2	1	19	2 (2)		---	11.70 to 15.80	240 secs	-	-	-	-	0.2	0.0	20.3	0.0	-	13	0
BH2	1	19	2 (2)		---	11.70 to 15.80	300 secs	-	-	-	-	0.2	0.0	20.4	0.0	-	12	0
BH2	1	19	2 (3)	15.80	10.45	11.70 to 15.80	23/06/2020 15:02:00	-	-	-	2.45	-	-	-	-	-	-	-
BH2	1	19	3	15.80	---	11.70 to 15.80	07/07/2020 09:54:11	1018	1018	0.0 _(l)	-	-	-	-	0.0	-	-	-
BH2	1	19	3		---	11.70 to 15.80	55 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH2	1	19	3 (2)	15.80	---	11.70 to 15.80	07/07/2020 09:57:45	-	-	-	-	0.1	0.0	21.0	0.0	0.0	1	0
BH2	1	19	3 (2)		---	11.70 to 15.80	15 secs	-	-	-	-	0.4	0.0	19.4	0.0	-	11	0
BH2	1	19	3 (2)		---	11.70 to 15.80	30 secs	-	-	-	-	0.4	0.0	19.1	0.0	-	15	0
BH2	1	19	3 (2)		---	11.70 to 15.80	61 secs	-	-	-	-	0.4	0.0	18.7	0.0	-	14	0
BH2	1	19	3 (2)		---	11.70 to 15.80	91 secs	-	-	-	-	0.4	0.0	15.9	0.0	-	12	0
BH2	1	19	3 (2)		---	11.70 to 15.80	121 secs	-	-	-	-	0.4	0.0	15.3	0.0	-	11	0
BH2	1	19	3 (2)		---	11.70 to 15.80	181 secs	-	-	-	-	0.4	0.0	15.3	0.0	-	10	0
BH2	1	19	3 (2)		---	11.70 to 15.80	241 secs	-	-	-	-	0.3	0.0	15.4	0.0	-	8	0
BH2	1	19	3 (2)		---	11.70 to 15.80	301 secs	-	-	-	-	0.3	0.0	15.4	0.0	-	7	0
BH2	1	19	3 (3)	15.80	12.02	11.70 to 15.80	07/07/2020 10:09:11	-	-	-	3.52	-	-	-	-	-	-	-
BH2	1	19	4	15.80	---	11.70 to 15.80	04/08/2020 10:02:16	1013	1013	0.0 _(l)	-	-	-	-	-	-	-	-
BH2	1	19	4		---	11.70 to 15.80	29 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH2	1	19	4 (2)	15.80	---	11.70 to 15.80	04/08/2020 10:05:37	-	-	-	-	0.0	0.0	21.5	0.0	1.5	0	0
BH2	1	19	4 (2)		---	11.70 to 15.80	15 secs	-	-	-	-	0.6	0.0	16.1	0.0	-	8	0
BH2	1	19	4 (2)		---	11.70 to 15.80	30 secs	-	-	-	-	0.6	0.0	15.4	0.0	-	10	0
BH2	1	19	4 (2)		---	11.70 to 15.80	60 secs	-	-	-	-	0.4	0.0	12.3	0.0	-	8	0
BH2	1	19	4 (2)		---	11.70 to 15.80	90 secs	-	-	-	-	0.3	0.0	10.7	0.0	-	6	0
BH2	1	19	4 (2)		---	11.70 to 15.80	120 secs	-	-	-	-	0.2	0.0	9.6	0.0	-	5	0
BH2	1	19	4 (2)		---	11.70 to 15.80	180 secs	-	-	-	-	0.2	0.0	8.1	0.0	-	4	0
BH2	1	19	4 (2)		---	11.70 to 15.80	240 secs	-	-	-	-	0.2	0.0	8.1	0.0	-	3	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
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IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH2	1	19	4 (2)		---	11.70 to 15.80	300 secs	-	-	-	-	0.2	0.0	8.2	0.0	-	3	0
BH2	1	19	4 (3)	15.80	12.18	11.70 to 15.80	04/08/2020 10:11:00	-	-	-	4.12	-	-	-	-	-	-	-
BH3	1	19	1	17.00	9.50	13.50 to 17.00	16/06/2020 12:00:00	-	-	-	4.20	-	-	-	-	-	-	-
Remarks: Gas monitoring not completed, bung had been removed. Well silted up to 9.50m depth. Pump intake installed to 15.00m depth and well cleaned out, water level lowered to 7.20m depth on completion.																		
BH3	1	19	2	17.00	---	13.50 to 17.00	23/06/2020 13:49:42	1021	1020	0.0 _(I)	-	-	-	-	-	-	-	-
BH3	1	19	2		---	13.50 to 17.00	30 secs	-	-	0.1 _(SS)	-	-	-	-	-	-	-	-
BH3	1	19	2 (2)	17.00	---	13.50 to 17.00	23/06/2020 13:52:55	-	-	-	-	0.0	0.0	20.6	0.0	0.0	3	0
BH3	1	19	2 (2)		---	13.50 to 17.00	15 secs	-	-	-	-	0.0	0.0	20.4	0.0	-	6	0
BH3	1	19	2 (2)		---	13.50 to 17.00	30 secs	-	-	-	-	0.0	0.0	20.4	0.0	-	5	0
BH3	1	19	2 (2)		---	13.50 to 17.00	60 secs	-	-	-	-	0.0	0.0	20.4	0.0	-	3	0
BH3	1	19	2 (2)		---	13.50 to 17.00	90 secs	-	-	-	-	0.0	0.0	20.4	0.0	-	3	0
BH3	1	19	2 (2)		---	13.50 to 17.00	120 secs	-	-	-	-	0.0	0.0	20.4	0.0	-	3	0
BH3	1	19	2 (2)		---	13.50 to 17.00	180 secs	-	-	-	-	0.0	0.0	20.3	0.0	-	3	0
BH3	1	19	2 (2)		---	13.50 to 17.00	240 secs	-	-	-	-	0.0	0.0	20.3	0.0	-	3	0
BH3	1	19	2 (2)		---	13.50 to 17.00	300 secs	-	-	-	-	0.0	0.0	20.2	0.0	-	3	1
BH3	1	19	2 (3)	17.00	13.53	13.50 to 17.00	23/06/2020 13:58:00	-	-	-	4.23	-	-	-	-	-	-	-
BH3	1	19	3	17.00	---	13.50 to 17.00	07/07/2020 10:43:53	1019	1019	0.0 _(I)	-	-	-	-	-	-	-	-
BH3	1	19	3		---	13.50 to 17.00	35 secs	-	-	0.2 _(SS)	-	-	-	-	-	-	-	-
BH3	1	19	3 (2)	17.00	---	13.50 to 17.00	07/07/2020 10:47:08	-	-	-	-	0.0	0.0	21.0	0.0	-	1	0
BH3	1	19	3 (2)		---	13.50 to 17.00	211 secs	-	-	-	-	0.1	0.0	20.8	0.0	-	3	0
BH3	1	19	3 (2)		---	13.50 to 17.00	226 secs	-	-	-	-	0.1	0.0	20.8	0.0	-	2	0
BH3	1	19	3 (2)		---	13.50 to 17.00	256 secs	-	-	-	-	0.1	0.0	20.9	0.0	-	2	0
BH3	1	19	3 (2)		---	13.50 to 17.00	286 secs	-	-	-	-	0.1	0.0	20.9	0.0	-	1	0

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 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
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IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH3	1	19	3 (2)		---	13.50 to 17.00	316 secs	-	-	-	-	0.0	0.0	20.9	0.0	-	1	0
BH3	1	19	3 (2)		---	13.50 to 17.00	376 secs	-	-	-	-	0.0	0.0	20.9	0.0	-	1	0
BH3	1	19	3 (2)		---	13.50 to 17.00	437 secs	-	-	-	-	0.0	0.0	20.9	0.0	-	1	0
BH3	1	19	3 (2)		---	13.50 to 17.00	497 secs	-	-	-	-	0.0	0.0	20.9	0.0	-	1	0
BH3	1	19	3 (3)	17.00	12.15	13.50 to 17.00	07/07/2020 10:57:58	-	-	-	4.75	-	-	-	-	-	-	-
BH3	1	19	4	17.00	---	13.50 to 17.00	04/08/2020 10:23:31	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH3	1	19	4		---	13.50 to 17.00	155 secs	1015	1014	0.0 _(I)	-	-	-	-	-	-	-	-
BH3	1	19	4 (2)	17.00	---	13.50 to 17.00	04/08/2020 10:26:21	-	-	-	-	0.0	0.0	21.1	0.0	0.0	0	0
BH3	1	19	4 (2)		---	13.50 to 17.00	15 secs	-	-	-	-	0.1	0.0	20.9	0.0	-	2	0
BH3	1	19	4 (2)		---	13.50 to 17.00	30 secs	-	-	-	-	0.1	0.0	20.9	0.0	-	2	0
BH3	1	19	4 (2)		---	13.50 to 17.00	60 secs	-	-	-	-	0.1	0.0	20.9	0.0	-	2	0
BH3	1	19	4 (2)		---	13.50 to 17.00	90 secs	-	-	-	-	0.1	0.0	20.8	0.0	-	3	0
BH3	1	19	4 (2)		---	13.50 to 17.00	120 secs	-	-	-	-	0.1	0.0	20.8	0.0	-	3	0
BH3	1	19	4 (2)		---	13.50 to 17.00	180 secs	-	-	-	-	0.1	0.0	20.8	0.0	-	2	0
BH3	1	19	4 (2)		---	13.50 to 17.00	240 secs	-	-	-	-	0.1	0.0	20.8	0.0	-	2	0
BH3	1	19	4 (2)		---	13.50 to 17.00	300 secs	-	-	-	-	0.1	0.0	20.8	0.0	-	2	0
BH3	1	19	4 (3)	17.00	8.66	13.50 to 17.00	04/08/2020 10:32:00	-	-	-	4.71	-	-	-	-	-	-	-
BH4	1	19	1	15.00	3.00	13.00 to 15.00	16/06/2020 12:00:00	-	-	-	2.00	-	-	-	-	-	-	-
Remarks: Gas monitoring not undertaken, bung had been broken from pipe. Well developed until dry with pump intake at 13.00m depth.																		
BH4	1	19	2	15.00	---	13.00 to 15.00	23/06/2020 13:00:57	1020	1020	0.1 _(I)	-	-	-	-	-	-	-	-
BH4	1	19	2		---	13.00 to 15.00	35 secs	-	-	0.1 _(SS)	-	-	-	-	-	-	-	-
BH4	1	19	2 (2)	15.00	---	13.00 to 15.00	23/06/2020 13:04:19	-	-	-	-	0.0	0.0	21.0	0.0	0.0	2	0
BH4	1	19	2 (2)		---	13.00 to 15.00	15 secs	-	-	-	-	0.0	0.0	21.0	0.0	-	3	0
BH4	1	19	2 (2)		---	13.00 to 15.00	30 secs	-	-	-	-	0.0	0.0	21.0	0.0	-	2	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
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Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH4	1	19	2 (2)		---	13.00 to 15.00	60 secs	-	-	-	-	0.0	0.0	21.0	0.0	-	2	0
BH4	1	19	2 (2)		---	13.00 to 15.00	90 secs	-	-	-	-	0.0	0.0	21.0	0.0	-	2	0
BH4	1	19	2 (2)		---	13.00 to 15.00	120 secs	-	-	-	-	0.0	0.0	21.0	0.0	-	2	0
BH4	1	19	2 (2)		---	13.00 to 15.00	180 secs	-	-	-	-	0.0	0.0	21.0	0.0	-	2	0
BH4	1	19	2 (2)		---	13.00 to 15.00	240 secs	-	-	-	-	0.0	0.0	20.9	0.0	-	2	0
BH4	1	19	2 (2)		---	13.00 to 15.00	300 secs	-	-	-	-	0.0	0.0	20.9	0.0	-	2	0
BH4	1	19	2 (2)		---	13.00 to 15.00	360 secs	-	-	-	-	0.0	0.0	20.8	0.0	-	2	0
BH4	1	19	2 (3)	15.00	13.30	13.00 to 15.00	23/06/2020 13:11:00	-	-	-	4.60	-	-	-	-	-	-	-
BH4	1	19	3	15.00	---	13.00 to 15.00	07/07/2020 11:14:00	1017	1017	0.0 _(I)	-	-	-	-	-	-	-	-
BH4	1	19	3		---	13.00 to 15.00	30 secs	-	-	0.2 _(SS)	-	-	-	-	-	-	-	-
BH4	1	19	3 (2)	15.00	---	13.00 to 15.00	07/07/2020 11:15:00	-	-	-	-	0.0	0.0	21.3	0.0	0.0	1	0
BH4	1	19	3 (2)		---	13.00 to 15.00	60 secs	-	-	-	-	0.1	0.0	21.3	0.0	-	2	0
BH4	1	19	3 (2)		---	13.00 to 15.00	75 secs	-	-	-	-	0.0	0.0	21.3	0.0	-	1	0
BH4	1	19	3 (2)		---	13.00 to 15.00	90 secs	-	-	-	-	0.0	0.0	21.3	0.0	-	1	0
BH4	1	19	3 (2)		---	13.00 to 15.00	120 secs	-	-	-	-	0.0	0.0	21.3	0.0	-	1	0
BH4	1	19	3 (2)		---	13.00 to 15.00	150 secs	-	-	-	-	0.0	0.0	21.3	0.0	-	1	0
BH4	1	19	3 (2)		---	13.00 to 15.00	180 secs	-	-	-	-	0.0	0.0	21.3	0.0	-	1	0
BH4	1	19	3 (2)		---	13.00 to 15.00	240 secs	-	-	-	-	0.0	0.0	21.3	0.0	-	1	0
BH4	1	19	3 (2)		---	13.00 to 15.00	300 secs	-	-	-	-	0.0	0.0	21.3	0.0	-	1	0
BH4	1	19	3 (2)		---	13.00 to 15.00	660 secs	-	-	-	-	0.0	0.0	21.3	0.0	-	1	0
BH4	1	19	3 (3)	15.00	13.70	13.00 to 15.00	07/07/2020 11:27:00	-	-	-	4.50	-	-	-	-	-	-	-
BH4	1	19	4	15.00	---	13.00 to 15.00	04/08/2020 10:41:41	1014	1014	0.0 _(I)	-	-	-	-	-	-	-	-
BH4	1	19	4		---	13.00 to 15.00	50 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH4	1	19	4 (2)	15.00	---	13.00 to 15.00	04/08/2020 10:45:04	-	-	-	-	0.0	0.0	21.2	0.0	0.0	1	0
BH4	1	19	4 (2)		---	13.00 to 15.00	15 secs	-	-	-	-	0.0	0.0	21.1	0.0	-	3	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
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IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH4	1	19	4 (2)		---	13.00 to 15.00	30 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	2	0
BH4	1	19	4 (2)		---	13.00 to 15.00	60 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	1	0
BH4	1	19	4 (2)		---	13.00 to 15.00	90 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	1	0
BH4	1	19	4 (2)		---	13.00 to 15.00	120 secs	-	-	-	-	0.0	0.0	21.1	0.0	-	1	0
BH4	1	19	4 (2)		---	13.00 to 15.00	180 secs	-	-	-	-	0.0	0.0	21.1	0.0	-	1	0
BH4	1	19	4 (2)		---	13.00 to 15.00	240 secs	-	-	-	-	0.0	0.0	21.1	0.0	-	1	0
BH4	1	19	4 (2)		---	13.00 to 15.00	300 secs	-	-	-	-	0.0	0.0	21.2	0.0	-	1	0
BH4	1	19	4 (3)	15.00	10.73	13.00 to 15.00	04/08/2020 10:51:00	-	-	-	4.87	-	-	-	-	-	-	-
BH5	1	19	1	19.00	19.00	18.70 to 19.00	16/06/2020 12:00:00	-	-	-	4.97	-	-	-	-	-	-	-
Remarks: Gas monitoring not undertaken as headworks flooded. Well developed with pump intake at 18.00m depth until dry.																		
BH5	1	19	2	19.00	---	18.70 to 19.00	23/06/2020 10:36:37	1022	1021	0.0 _(I)	-	-	-	-	-	-	-	-
BH5	1	19	2		---	18.70 to 19.00	20 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH5	1	19	2 (2)	19.00	---	18.70 to 19.00	23/06/2020 10:39:35	-	-	-	-	0.0	0.0	20.9	0.0	0.0	1	0
BH5	1	19	2 (2)		---	18.70 to 19.00	15 secs	-	-	-	-	0.1	0.0	20.7	0.0	-	83	0
BH5	1	19	2 (2)		---	18.70 to 19.00	60 secs	-	-	-	-	0.1	0.0	20.5	0.0	-	94	0
BH5	1	19	2 (2)		---	18.70 to 19.00	90 secs	-	-	-	-	0.1	0.0	20.4	0.0	-	115	0
BH5	1	19	2 (2)		---	18.70 to 19.00	120 secs	-	-	-	-	0.1	0.0	20.4	0.0	-	135	0
BH5	1	19	2 (2)		---	18.70 to 19.00	180 secs	-	-	-	-	0.1	0.0	20.3	0.0	-	142	0
BH5	1	19	2 (2)		---	18.70 to 19.00	240 secs	-	-	-	-	0.1	0.0	20.3	0.0	-	123	0
BH5	1	19	2 (2)		---	18.70 to 19.00	300 secs	-	-	-	-	0.1	0.0	20.2	0.0	-	109	0
BH5	1	19	2 (2)		---	18.70 to 19.00	360 secs	-	-	-	-	0.1	0.0	20.2	0.0	-	101	0
BH5	1	19	2 (3)	19.00	18.98	18.70 to 19.00	23/06/2020 10:46:00	-	-	-	5.61	-	-	-	-	-	-	-
BH5	1	19	3	19.00	---	18.70 to 19.00	07/07/2020 12:11:33	1018	1018	4.6 _(I)	-	-	-	-	-	-	-	-
BH5	1	19	3		---	18.70 to 19.00	29 secs	-	-	1.7 _(SS)	-	-	-	-	-	-	-	-

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
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IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH5	1	19	3 (2)	19.00	---	18.70 to 19.00	07/07/2020 12:14:30	-	-	-	-	0.0	0.0	21.5	0.0	0.0	2	0
BH5	1	19	3 (2)		---	18.70 to 19.00	15 secs	-	-	-	-	0.2	0.0	20.9	0.0	-	149	0
BH5	1	19	3 (2)		---	18.70 to 19.00	30 secs	-	-	-	-	0.2	0.0	20.0	0.0	-	187	0
BH5	1	19	3 (2)		---	18.70 to 19.00	60 secs	-	-	-	-	0.2	0.0	20.4	0.0	-	183	1
BH5	1	19	3 (2)		---	18.70 to 19.00	91 secs	-	-	-	-	0.2	0.0	20.4	0.0	-	179	1
BH5	1	19	3 (2)		---	18.70 to 19.00	121 secs	-	-	-	-	0.2	0.0	20.1	0.0	-	177	1
BH5	1	19	3 (2)		---	18.70 to 19.00	181 secs	-	-	-	-	0.2	0.0	19.7	0.0	-	174	1
BH5	1	19	3 (2)		---	18.70 to 19.00	242 secs	-	-	-	-	0.2	0.0	19.5	0.0	-	153	0
BH5	1	19	3 (2)		---	18.70 to 19.00	303 secs	-	-	-	-	0.2	0.0	19.6	0.0	-	136	0
BH5	1	19	3 (3)	19.00	19.05	18.70 to 19.00	07/07/2020 12:24:44	-	-	-	4.55	-	-	-	-	-	-	-
BH5	1	19	4	19.00	---	18.70 to 19.00	04/08/2020 11:29:08	1020	1013	2.6 _(I)	-	-	-	-	-	-	-	-
BH5	1	19	4		---	18.70 to 19.00	50 secs	-	-	0.6 _(SS)	-	-	-	-	-	-	-	-
BH5	1	19	4 (2)	19.00	---	18.70 to 19.00	04/08/2020 11:41:14	-	-	-	-	0.0	0.0	21.5	0.0	14.4	1	0
BH5	1	19	4 (2)		---	18.70 to 19.00	15 secs	-	-	-	-	0.4	0.0	20.1	0.0	-	266	0
BH5	1	19	4 (2)		---	18.70 to 19.00	30 secs	-	-	-	-	0.4	0.0	19.9	0.0	-	324	1
BH5	1	19	4 (2)		---	18.70 to 19.00	60 secs	-	-	-	-	0.4	0.0	19.9	0.0	-	319	2
BH5	1	19	4 (2)		---	18.70 to 19.00	90 secs	-	-	-	-	0.3	0.0	19.8	0.0	-	311	2
BH5	1	19	4 (2)		---	18.70 to 19.00	120 secs	-	-	-	-	0.3	0.0	19.8	0.0	-	308	2
BH5	1	19	4 (2)		---	18.70 to 19.00	150 secs	-	-	-	-	0.3	0.0	19.9	0.0	-	294	2
BH5	1	19	4 (2)		---	18.70 to 19.00	180 secs	-	-	-	-	0.3	0.0	19.9	0.0	-	248	1
BH5	1	19	4 (2)		---	18.70 to 19.00	240 secs	-	-	-	-	0.3	0.0	19.9	0.0	-	217	1
BH5	1	19	4 (2)		---	18.70 to 19.00	300 secs	-	-	-	-	0.3	0.0	20.0	0.0	-	187	1
BH5	1	19	4 (2)		---	18.70 to 19.00	360 secs	-	-	-	-	0.2	0.0	20.0	0.0	-	257	1
BH5	1	19	4 (2)		---	18.70 to 19.00	420 secs	-	-	-	-	0.2	0.0	20.1	0.0	-	253	1
BH5	1	19	4 (2)		---	18.70 to 19.00	480 secs	-	-	-	-	0.2	0.0	20.1	0.0	-	231	1

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

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Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH5	1	19	4 (2)		---	18.70 to 19.00	540 secs	-	-	-	-	0.2	0.0	20.1	0.0	-	213	1
BH5	1	19	4 (2)		---	18.70 to 19.00	600 secs	-	-	-	-	0.2	0.0	20.1	0.0	-	199	1
BH5	1	19	4 (2)		---	18.70 to 19.00	660 secs	-	-	-	-	0.2	0.0	20.1	0.0	-	177	1
BH5	1	19	4 (2)		---	18.70 to 19.00	720 secs	-	-	-	-	0.2	0.0	20.2	0.0	-	160	1
BH5	1	19	4 (2)		---	18.70 to 19.00	780 secs	-	-	-	-	0.2	0.0	20.2	0.0	-	147	1
BH5	1	19	4 (3)	19.00	18.99	18.70 to 19.00	04/08/2020 11:55:00	-	-	-	7.02	-	-	-	-	-	-	-
BH6	1	19	1	16.00	---	15.70 to 16.00	16/06/2020 16:42:37	1009	1009	0.0 _(I)	-	-	-	-	-	-	-	-
BH6	1	19	1		---	15.70 to 16.00	30 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH6	1	19	1 (2)	16.00	---	15.70 to 16.00	16/06/2020 16:44:46	-	-	-	-	0.0	0.0	22.1	0.0	0.0	7	0
BH6	1	19	1 (2)		---	15.70 to 16.00	15 secs	-	-	-	-	0.0	0.0	22.2	0.0	-	9	0
BH6	1	19	1 (2)		---	15.70 to 16.00	30 secs	-	-	-	-	0.0	0.0	22.2	0.0	-	7	0
BH6	1	19	1 (2)		---	15.70 to 16.00	60 secs	-	-	-	-	0.0	0.0	22.2	0.0	-	7	0
BH6	1	19	1 (2)		---	15.70 to 16.00	90 secs	-	-	-	-	0.0	0.0	22.2	0.0	-	7	0
BH6	1	19	1 (2)		---	15.70 to 16.00	120 secs	-	-	-	-	0.0	0.0	22.2	0.0	-	7	0
BH6	1	19	1 (2)		---	15.70 to 16.00	180 secs	-	-	-	-	0.0	0.0	22.2	0.0	-	7	0
BH6	1	19	1 (2)		---	15.70 to 16.00	240 secs	-	-	-	-	0.0	0.0	22.2	0.0	-	7	0
BH6	1	19	1 (2)		---	15.70 to 16.00	300 secs	-	-	-	-	0.0	0.0	22.2	0.0	-	7	0
BH6	1	19	1 (3)	16.00	16.80	15.70 to 16.00	16/06/2020 16:51:00	-	-	-	4.65	-	-	-	-	-	-	-
Remarks: Well developed with pump intake at 16.00m. Developed until dry.																		
BH6	1	19	2	16.00	---	15.70 to 16.00	23/06/2020 11:23:49	1020	1020	0.0 _(I)	-	-	-	-	-	-	-	-
BH6	1	19	2		---	15.70 to 16.00	45 secs	-	-	0.1 _(SS)	-	-	-	-	-	-	-	-
BH6	1	19	2 (2)	16.00	---	15.70 to 16.00	23/06/2020 11:26:58	-	-	-	-	0.0	0.0	20.7	0.0	0.0	2	0
BH6	1	19	2 (2)		---	15.70 to 16.00	15 secs	-	-	-	-	0.1	0.0	20.1	0.0	-	137	0
BH6	1	19	2 (2)		---	15.70 to 16.00	30 secs	-	-	-	-	0.2	0.0	20.0	0.0	-	187	1

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 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
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Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH6	1	19	2 (2)		---	15.70 to 16.00	60 secs	-	-	-	-	0.2	0.0	20.0	0.0	-	191	1
BH6	1	19	2 (2)		---	15.70 to 16.00	90 secs	-	-	-	-	0.2	0.0	20.0	0.0	-	189	1
BH6	1	19	2 (2)		---	15.70 to 16.00	120 secs	-	-	-	-	0.2	0.0	20.0	0.0	-	186	1
BH6	1	19	2 (2)		---	15.70 to 16.00	180 secs	-	-	-	-	0.2	0.0	20.1	0.0	-	179	1
BH6	1	19	2 (2)		---	15.70 to 16.00	240 secs	-	-	-	-	0.2	0.0	20.1	0.0	-	151	0
BH6	1	19	2 (2)		---	15.70 to 16.00	300 secs	-	-	-	-	0.2	0.0	20.1	0.0	-	133	0
BH6	1	19	2 (3)	16.00	17.00	15.70 to 16.00	23/06/2020 11:32:58	-	-	-	3.25	-	-	-	-	-	-	-
BH6	1	19	3	16.00	---	15.70 to 16.00	07/07/2020 12:32:44	1016	1016	0.0 _(I)	-	-	-	-	-	-	-	-
BH6	1	19	3		---	15.70 to 16.00	25 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH6	1	19	3 (2)	16.00	---	15.70 to 16.00	07/07/2020 12:36:21	-	-	-	-	0.2	0.0	20.0	0.0	-	187	0
BH6	1	19	3 (2)		---	15.70 to 16.00	15 secs	-	-	-	-	0.2	0.0	20.9	0.0	-	149	0
BH6	1	19	3 (2)		---	15.70 to 16.00	45 secs	-	-	-	-	0.0	0.0	21.5	0.0	0.0	2	0
BH6	1	19	3 (2)		---	15.70 to 16.00	105 secs	-	-	-	-	0.2	0.0	20.4	0.0	-	183	1
BH6	1	19	3 (2)		---	15.70 to 16.00	135 secs	-	-	-	-	0.2	0.0	20.4	0.0	-	179	1
BH6	1	19	3 (2)		---	15.70 to 16.00	165 secs	-	-	-	-	0.2	0.0	20.1	0.0	-	177	1
BH6	1	19	3 (2)		---	15.70 to 16.00	225 secs	-	-	-	-	0.2	0.0	19.7	0.0	-	174	1
BH6	1	19	3 (2)		---	15.70 to 16.00	285 secs	-	-	-	-	0.2	0.0	19.5	0.0	-	153	0
BH6	1	19	3 (3)	16.00	19.05	15.70 to 16.00	07/07/2020 12:46:47	-	-	-	4.55	-	-	-	-	-	-	-
BH6	1	19	4	16.00	---	15.70 to 16.00	04/08/2020 12:05:22	1013	1013	0.0 _(I)	-	-	-	-	-	-	-	-
BH6	1	19	4		---	15.70 to 16.00	30 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH6	1	19	4 (2)	16.00	---	15.70 to 16.00	04/08/2020 12:09:57	-	-	-	-	0.0	0.0	21.7	0.0	-	2	0
BH6	1	19	4 (2)		---	15.70 to 16.00	15 secs	-	-	-	-	0.1	0.0	21.7	0.0	-	5	0
BH6	1	19	4 (2)		---	15.70 to 16.00	30 secs	-	-	-	-	0.0	0.0	21.8	0.0	-	3	0
BH6	1	19	4 (2)		---	15.70 to 16.00	60 secs	-	-	-	-	0.0	0.0	21.8	0.0	-	2	0
BH6	1	19	4 (2)		---	15.70 to 16.00	90 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	2	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
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Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH6	1	19	4 (2)		---	15.70 to 16.00	120 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	2	0
BH6	1	19	4 (2)		---	15.70 to 16.00	180 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	2	0
BH6	1	19	4 (2)		---	15.70 to 16.00	240 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	2	0
BH6	1	19	4 (2)		---	15.70 to 16.00	300 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	1	0
BH6	1	19	4 (3)	16.00	16.87	15.70 to 16.00	04/08/2020 12:23:27	-	-	-	4.87	-	-	-	-	-	-	-
BH6	2	42	1	5.00	---	1.00 to 5.00	16/06/2020 16:58:54	1008	1008	0.0 _(I)	-	-	-	-	-	-	-	-
BH6	2	42	1		---	1.00 to 5.00	45 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH6	2	42	1 (2)	5.00	---	1.00 to 5.00	16/06/2020 17:02:30	-	-	-	-	3.5	0.0	11.9	0.0	0.0	23	0
BH6	2	42	1 (2)		---	1.00 to 5.00	15 secs	-	-	-	-	3.6	0.0	10.2	0.0	-	30	0
BH6	2	42	1 (2)		---	1.00 to 5.00	45 secs	-	-	-	-	3.6	0.0	10.1	0.0	-	33	0
BH6	2	42	1 (2)		---	1.00 to 5.00	75 secs	-	-	-	-	3.6	0.0	10.1	0.0	-	33	0
BH6	2	42	1 (2)		---	1.00 to 5.00	105 secs	-	-	-	-	3.7	0.0	10.1	0.0	-	33	0
BH6	2	42	1 (2)		---	1.00 to 5.00	165 secs	-	-	-	-	3.8	0.0	10.9	0.0	-	32	0
BH6	2	42	1 (2)		---	1.00 to 5.00	225 secs	-	-	-	-	3.8	0.0	11.5	0.0	-	31	0
BH6	2	42	1 (2)		---	1.00 to 5.00	285 secs	-	-	-	-	3.8	0.1	12.2	0.0	-	30	0
BH6	2	42	1 (3)	5.00	4.80	1.00 to 5.00	16/06/2020 17:08:30	-	-	-	4.70	-	-	-	-	-	-	-
BH6	2	42	2	5.00	---	1.00 to 5.00	23/06/2020 11:37:47	1020	1020	0.0 _(I)	-	-	-	-	-	-	-	-
BH6	2	42	2		---	1.00 to 5.00	30 secs	-	-	0.1 _(SS)	-	-	-	-	-	-	-	-
BH6	2	42	2 (2)	5.00	---	1.00 to 5.00	23/06/2020 11:42:11	-	-	-	-	4.5	0.0	10.4	0.0	0.0	8	0
BH6	2	42	2 (2)		---	1.00 to 5.00	15 secs	-	-	-	-	4.6	0.0	9.5	0.0	-	10	0
BH6	2	42	2 (2)		---	1.00 to 5.00	45 secs	-	-	-	-	4.6	0.0	9.5	0.0	-	10	0
BH6	2	42	2 (2)		---	1.00 to 5.00	75 secs	-	-	-	-	4.6	0.0	9.6	0.0	-	10	0
BH6	2	42	2 (2)		---	1.00 to 5.00	105 secs	-	-	-	-	4.7	0.0	9.9	0.0	-	10	0
BH6	2	42	2 (2)		---	1.00 to 5.00	135 secs	-	-	-	-	4.7	0.0	10.5	0.0	-	9	0
BH6	2	42	2 (2)		---	1.00 to 5.00	195 secs	-	-	-	-	4.7	0.0	11.0	0.0	-	8	0

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Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH6	2	42	2 (2)		---	1.00 to 5.00	255 secs	-	-	-	-	4.7	0.0	11.5	0.0	-	8	0
BH6	2	42	2 (3)	5.00	4.90	1.00 to 5.00	23/06/2020 11:48:00	-	-	-	4.80	-	-	-	-	-	-	-
BH6	2	42	3	5.00	---	1.00 to 5.00	07/07/2020 12:47:50	1017	1017	0.0 _(I)	-	-	-	-	-	-	-	-
BH6	2	42	3		---	1.00 to 5.00	25 secs	-	-	0.2 _(SS)	-	-	-	-	-	-	-	-
BH6	2	42	3 (2)	5.00	---	1.00 to 5.00	07/07/2020 12:50:30	-	-	-	-	0.0	0.0	21.4	0.0	0.0	2	0
BH6	2	42	3 (2)		---	1.00 to 5.00	15 secs	-	-	-	-	5.7	0.0	14.9	0.0	-	5	0
BH6	2	42	3 (2)		---	1.00 to 5.00	30 secs	-	-	-	-	5.8	0.0	14.1	0.0	-	5	0
BH6	2	42	3 (2)		---	1.00 to 5.00	60 secs	-	-	-	-	5.8	0.0	14.0	0.0	-	5	0
BH6	2	42	3 (2)		---	1.00 to 5.00	90 secs	-	-	-	-	5.8	0.0	14.0	0.0	-	4	0
BH6	2	42	3 (2)		---	1.00 to 5.00	120 secs	-	-	-	-	5.7	0.0	14.3	0.0	-	4	0
BH6	2	42	3 (2)		---	1.00 to 5.00	180 secs	-	-	-	-	5.7	0.0	14.3	0.0	-	4	0
BH6	2	42	3 (2)		---	1.00 to 5.00	240 secs	-	-	-	-	5.7	0.0	14.4	0.0	-	4	0
BH6	2	42	3 (2)		---	1.00 to 5.00	360 secs	-	-	-	-	5.7	0.0	14.7	0.0	-	3	0
BH6	2	42	3 (3)	5.00	4.95	1.00 to 5.00	07/07/2020 12:59:40	-	-	-	4.85	-	-	-	-	-	-	-
BH6	2	42	4 (2)	5.00	---	1.00 to 5.00	04/08/2020 12:28:22	-	-	-	-	2.1	0.0	20.1	0.0	-	2	0
BH6	2	42	4 (2)		---	1.00 to 5.00	30 secs	-	-	-	-	2.2	0.0	19.9	0.0	-	2	0
BH6	2	42	4 (2)		---	1.00 to 5.00	60 secs	-	-	-	-	2.5	0.0	19.6	0.0	-	2	0
BH6	2	42	4 (2)		---	1.00 to 5.00	90 secs	-	-	-	-	3.0	0.0	19.2	0.0	-	2	0
BH6	2	42	4 (2)		---	1.00 to 5.00	120 secs	-	-	-	-	3.6	0.0	18.7	0.0	-	2	0
BH6	2	42	4 (2)		---	1.00 to 5.00	180 secs	-	-	-	-	4.8	0.0	17.6	0.0	-	2	0
BH6	2	42	4 (2)		---	1.00 to 5.00	240 secs	-	-	-	-	5.3	0.0	17.3	0.0	-	2	0
BH6	2	42	4	5.00	---	1.00 to 5.00	04/08/2020 12:33:37	1013	1013	0.2 _(I)	-	-	-	-	-	-	-	-
BH6	2	42	4		---	1.00 to 5.00	25 secs	-	-	0.1 _(SS)	-	-	-	-	-	-	-	-
BH6	2	42	4 (3)	5.00	4.92	1.00 to 5.00	04/08/2020 12:37:16	-	-	-	4.91	-	-	-	-	-	-	-

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Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH7	1	19	1	17.00	---	16.70 to 17.00	16/06/2020 16:09:43	1008	1008	0.0 _(I)	-	-	-	-	-	-	-	-
BH7	1	19	1		---	16.70 to 17.00	40 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH7	1	19	1 (2)	17.00	---	16.70 to 17.00	16/06/2020 16:12:29	-	-	-	-	0.0	0.0	22.0	0.0	0.0	15	0
BH7	1	19	1 (2)		---	16.70 to 17.00	15 secs	-	-	-	-	0.0	0.0	21.1	0.0	-	158	0
BH7	1	19	1 (2)		---	16.70 to 17.00	30 secs	-	-	-	-	0.1	0.0	20.9	0.0	-	230	0
BH7	1	19	1 (2)		---	16.70 to 17.00	60 secs	-	-	-	-	0.1	0.0	20.8	0.0	-	269	0
BH7	1	19	1 (2)		---	16.70 to 17.00	90 secs	-	-	-	-	0.1	0.0	20.8	0.0	-	286	0
BH7	1	19	1 (2)		---	16.70 to 17.00	120 secs	-	-	-	-	0.1	0.0	20.3	0.0	-	259	0
BH7	1	19	1 (2)		---	16.70 to 17.00	180 secs	-	-	-	-	0.1	0.0	19.3	0.0	-	180	0
BH7	1	19	1 (2)		---	16.70 to 17.00	240 secs	-	-	-	-	0.0	0.0	18.7	0.0	-	123	0
BH7	1	19	1 (2)		---	16.70 to 17.00	300 secs	-	-	-	-	0.0	0.0	18.5	0.0	-	95	0
BH7	1	19	1 (3)	17.00	16.91	16.70 to 17.00	16/06/2020 16:19:00	-	-	-	5.71	-	-	-	-	-	-	-
Remarks: Well developed with pump intake at 16.70m depth.																		
BH7	1	19	2	17.00	---	16.70 to 17.00	23/06/2020 09:36:05	1021	1021	0.0 _(I)	-	-	-	-	-	-	-	-
BH7	1	19	2		---	16.70 to 17.00	45 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH7	1	19	2 (2)	17.00	---	16.70 to 17.00	23/06/2020 09:39:44	-	-	-	-	0.1	0.0	20.4	0.0	0.0	0	0
BH7	1	19	2 (2)		---	16.70 to 17.00	12 secs	-	-	-	-	0.1	0.0	18.7	0.0	-	220	0
BH7	1	19	2 (2)		---	16.70 to 17.00	15 secs	-	-	-	-	0.1	0.0	19.7	0.0	-	211	0
BH7	1	19	2 (2)		---	16.70 to 17.00	30 secs	-	-	-	-	0.1	0.0	19.6	0.0	-	281	0
BH7	1	19	2 (2)		---	16.70 to 17.00	60 secs	-	-	-	-	0.1	0.0	19.6	0.0	-	282	0
BH7	1	19	2 (2)		---	16.70 to 17.00	90 secs	-	-	-	-	0.1	0.0	19.4	0.0	-	266	0
BH7	1	19	2 (2)		---	16.70 to 17.00	180 secs	-	-	-	-	0.1	0.0	17.6	0.0	-	151	0
BH7	1	19	2 (2)		---	16.70 to 17.00	240 secs	-	-	-	-	0.1	0.0	17.1	0.0	-	116	0
BH7	1	19	2 (2)		---	16.70 to 17.00	300 secs	-	-	-	-	0.1	0.0	16.8	0.0	-	96	0
BH7	1	19	2 (3)	17.00	16.98	16.70 to 17.00	23/06/2020 09:45:00	-	-	-	5.26	-	-	-	-	-	-	-

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
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IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH7	1	19	3	17.00	---	16.70 to 17.00	07/07/2020 13:04:23	1016	1016	0.0 _(l)	-	-	-	-	-	-	-	-
BH7	1	19	3		---	16.70 to 17.00	39 secs	-	-	0.0 _(ss)	-	-	-	-	-	-	-	-
BH7	1	19	3 (2)	17.00	---	16.70 to 17.00	07/07/2020 13:08:08	-	-	-	-	0.1	0.0	21.5	0.0	0.0	1	0
BH7	1	19	3 (2)		---	16.70 to 17.00	16 secs	-	-	-	-	0.4	0.0	20.5	0.0	-	79	0
BH7	1	19	3 (2)		---	16.70 to 17.00	32 secs	-	-	-	-	0.4	0.0	20.4	0.0	-	111	0
BH7	1	19	3 (2)		---	16.70 to 17.00	62 secs	-	-	-	-	0.4	0.0	20.3	0.0	-	115	0
BH7	1	19	3 (2)		---	16.70 to 17.00	92 secs	-	-	-	-	0.4	0.0	20.3	0.0	-	115	0
BH7	1	19	3 (2)		---	16.70 to 17.00	122 secs	-	-	-	-	0.4	0.0	20.2	0.0	-	108	0
BH7	1	19	3 (2)		---	16.70 to 17.00	182 secs	-	-	-	-	0.4	0.0	20.1	0.0	-	98	0
BH7	1	19	3 (2)		---	16.70 to 17.00	242 secs	-	-	-	-	0.4	0.0	20.0	0.0	-	89	0
BH7	1	19	3 (2)		---	16.70 to 17.00	302 secs	-	-	-	-	0.4	0.0	19.9	0.0	-	81	0
BH7	1	19	3 (3)	17.00	16.85	16.70 to 17.00	07/07/2020 13:19:26	-	-	-	5.55	-	-	-	-	-	-	-
BH7	1	19	4	17.00	---	16.70 to 17.00	04/08/2020 12:42:24	1013	1013	0.0 _(l)	-	-	-	-	-	-	-	-
BH7	1	19	4		---	16.70 to 17.00	20 secs	-	-	0.0 _(ss)	-	-	-	-	-	-	-	-
BH7	1	19	4 (2)	17.00	---	16.70 to 17.00	04/08/2020 12:45:40	-	-	-	-	0.0	0.0	22.1	0.0	0.0	1	0
BH7	1	19	4 (2)		---	16.70 to 17.00	15 secs	-	-	-	-	0.4	0.0	20.6	0.0	-	35	0
BH7	1	19	4 (2)		---	16.70 to 17.00	30 secs	-	-	-	-	0.5	0.0	20.5	0.0	-	46	0
BH7	1	19	4 (2)		---	16.70 to 17.00	60 secs	-	-	-	-	0.5	0.0	20.4	0.0	-	49	0
BH7	1	19	4 (2)		---	16.70 to 17.00	90 secs	-	-	-	-	0.5	0.0	20.4	0.0	-	51	0
BH7	1	19	4 (2)		---	16.70 to 17.00	120 secs	-	-	-	-	0.5	0.0	20.3	0.0	-	50	0
BH7	1	19	4 (2)		---	16.70 to 17.00	180 secs	-	-	-	-	0.5	0.0	20.3	0.0	-	48	0
BH7	1	19	4 (2)		---	16.70 to 17.00	240 secs	-	-	-	-	0.5	0.0	20.3	0.0	-	46	0
BH7	1	19	4 (2)		---	16.70 to 17.00	300 secs	-	-	-	-	0.5	0.0	20.3	0.0	-	45	0
BH7	1	19	4 (3)	17.00	16.94	16.70 to 17.00	04/08/2020 12:51:00	-	-	-	5.24	-	-	-	-	-	-	-

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IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH8	1	32	1	5.00	---	1.00 to 5.00	16/06/2020 15:33:00	1005	1009	0.0 _(I)	-	-	-	-	-	-	-	-
BH8	1	32	1		---	1.00 to 5.00	60 secs	-	-	-3.0 _(SS)	-	-	-	-	-	-	-	-
BH8	1	32	1 (2)	5.00	---	1.00 to 5.00	16/06/2020 15:36:07	-	-	-	-	0.0	0.0	21.8	0.0	0.0	2	0
BH8	1	32	1 (2)		---	1.00 to 5.00	15 secs	-	-	-	-	0.3	0.0	20.5	0.0	-	-	0
BH8	1	32	1 (2)		---	1.00 to 5.00	30 secs	-	-	-	-	0.4	0.0	19.7	0.0	-	-	1
BH8	1	32	1 (3)	5.00	---	1.00 to 5.00	16/06/2020 15:37:07	-	-	-	-	0.8	0.0	18.5	0.0	-	-	2
BH8	1	32	1 (2)	5.00	---	1.00 to 5.00	16/06/2020 15:37:37	-	-	-	-	1.1	0.0	17.6	0.0	-	-	3
BH8	1	32	1 (2)		---	1.00 to 5.00	120 secs	-	-	-	-	1.4	0.0	16.8	0.0	-	-	3
BH8	1	32	1 (2)		---	1.00 to 5.00	180 secs	-	-	-	-	2.9	0.0	8.1	0.0	-	-	2
BH8	1	32	1 (2)		---	1.00 to 5.00	240 secs	-	-	-	-	3.0	0.0	6.5	0.0	-	-	1
BH8	1	32	1 (2)		---	1.00 to 5.00	300 secs	-	-	-	-	3.0	0.0	6.2	0.0	-	-	1
BH8	1	32	1 (3)	5.00	4.95	1.00 to 5.00	16/06/2020 15:43:00	-	-	-	1.35	-	-	-	-	-	-	-
Remarks: Error or out of range message on carbon monoxide measurement after initial reading.																		
BH8	1	32	2	5.00	---	1.00 to 5.00	23/06/2020 09:02:58	1020	1021	-3.3 _(I)	-	-	-	-	-	-	-	-
BH8	1	32	2		---	1.00 to 5.00	65 secs	-	-	-1.5 _(SS)	-	-	-	-	-	-	-	-
BH8	1	32	2 (2)	5.00	---	1.00 to 5.00	23/06/2020 09:07:47	-	-	-	-	0.1	0.0	20.8	0.0	0.0	0	0
BH8	1	32	2 (2)		---	1.00 to 5.00	15 secs	-	-	-	-	1.2	0.0	14.3	0.0	-	2	0
BH8	1	32	2 (2)		---	1.00 to 5.00	30 secs	-	-	-	-	1.6	0.0	10.5	0.0	-	2	0
BH8	1	32	2 (2)		---	1.00 to 5.00	60 secs	-	-	-	-	2.5	0.0	5.1	0.0	-	3	0
BH8	1	32	2 (2)		---	1.00 to 5.00	90 secs	-	-	-	-	3.0	0.0	1.9	0.0	-	3	0
BH8	1	32	2 (2)		---	1.00 to 5.00	120 secs	-	-	-	-	3.1	0.0	1.1	0.0	-	3	0
BH8	1	32	2 (2)		---	1.00 to 5.00	180 secs	-	-	-	-	3.2	0.0	0.8	0.0	-	3	0
BH8	1	32	2 (2)		---	1.00 to 5.00	240 secs	-	-	-	-	3.3	0.0	0.8	0.0	-	2	0
BH8	1	32	2 (2)		---	1.00 to 5.00	300 secs	-	-	-	-	3.3	0.0	0.7	0.0	-	2	0
BH8	1	32	2 (3)	5.00	5.06	1.00 to 5.00	23/06/2020 09:13:00	-	-	-	2.06	-	-	-	-	-	-	-

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 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
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IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH8	1	32	3	5.00	---	1.00 to 5.00	07/07/2020 13:38:32	1016	1016	0.0 _(l)	-	-	-	-	-	-	-	-
BH8	1	32	3		---	1.00 to 5.00	25 secs	-	-	0.1 _(ss)	-	-	-	-	-	-	-	-
BH8	1	32	3 (2)	5.00	---	1.00 to 5.00	07/07/2020 13:41:24	-	-	-	-	0.0	0.0	21.9	0.0	0.0	1	0
BH8	1	32	3 (2)		---	1.00 to 5.00	15 secs	-	-	-	-	4.9	0.0	1.6	0.0	-	4	0
BH8	1	32	3 (2)		---	1.00 to 5.00	31 secs	-	-	-	-	5.0	0.0	0.5	0.0	-	5	0
BH8	1	32	3 (2)		---	1.00 to 5.00	61 secs	-	-	-	-	5.0	0.0	0.3	0.0	-	5	0
BH8	1	32	3 (2)		---	1.00 to 5.00	91 secs	-	-	-	-	5.0	0.0	0.3	0.0	-	5	0
BH8	1	32	3 (2)		---	1.00 to 5.00	122 secs	-	-	-	-	5.0	0.0	0.2	0.0	-	5	0
BH8	1	32	3 (2)		---	1.00 to 5.00	182 secs	-	-	-	-	5.1	0.0	0.2	0.0	-	4	0
BH8	1	32	3 (2)		---	1.00 to 5.00	243 secs	-	-	-	-	5.1	0.0	0.2	0.0	-	3	0
BH8	1	32	3 (2)		---	1.00 to 5.00	304 secs	-	-	-	-	5.2	0.0	0.2	0.0	-	3	0
BH8	1	32	3 (3)	5.00	4.78	1.00 to 5.00	07/07/2020 13:50:35	-	-	-	2.93	-	-	-	-	-	-	-
BH8	1	32	4	5.00	---	1.00 to 5.00	04/08/2020 13:19:51	1013	1013	0.0 _(l)	-	-	-	-	-	-	-	-
BH8	1	32	4 (3)	5.00	---	1.00 to 5.00	04/08/2020 13:20:41	-	-	0.0 _(ss)	-	-	-	-	-	-	-	-
BH8	1	32	4 (2)	5.00	---	1.00 to 5.00	04/08/2020 13:23:02	-	-	-	-	6.3	0.0	2.6	0.0	0.0	1	0
BH8	1	32	4 (2)		---	1.00 to 5.00	30 secs	-	-	-	-	6.4	0.0	1.5	0.0	-	4	0
BH8	1	32	4 (2)		---	1.00 to 5.00	60 secs	-	-	-	-	6.4	0.0	1.3	0.0	-	3	0
BH8	1	32	4 (2)		---	1.00 to 5.00	90 secs	-	-	-	-	6.4	0.0	1.3	0.0	-	3	0
BH8	1	32	4 (2)		---	1.00 to 5.00	120 secs	-	-	-	-	6.4	0.0	1.3	0.0	-	3	0
BH8	1	32	4 (2)		---	1.00 to 5.00	180 secs	-	-	-	-	6.5	0.0	1.6	0.0	-	2	0
BH8	1	32	4 (2)		---	1.00 to 5.00	240 secs	-	-	-	-	6.4	0.0	1.8	0.0	-	1	0
BH8	1	32	4 (2)		---	1.00 to 5.00	300 secs	-	-	-	-	6.4	0.0	2.3	0.0	-	1	0
BH8	1	32	4 (3)	5.00	5.01	1.00 to 5.00	04/08/2020 13:29:00	1016	1016	-	2.31	-	-	-	-	-	-	-
BH8	2	19	1	18.50	---	13.50 to 18.50	16/06/2020 15:15:44	1008	1008	0.0 _(l)	-	-	-	-	-	-	-	-

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 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
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IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH8	2	19	1 (3)	18.50	---	13.50 to 18.50	16/06/2020 15:16:24	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH8	2	19	1 (2)	18.50	---	13.50 to 18.50	16/06/2020 15:21:02	-	-	-	-	0.0	0.0	21.8	0.0	0.0	1	0
BH8	2	19	1 (2)		---	13.50 to 18.50	60 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	59	0
BH8	2	19	1 (2)		---	13.50 to 18.50	90 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	43	0
BH8	2	19	1 (2)		---	13.50 to 18.50	120 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	36	0
BH8	2	19	1 (2)		---	13.50 to 18.50	180 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	28	0
BH8	2	19	1 (2)		---	13.50 to 18.50	240 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	24	0
BH8	2	19	1 (2)		---	13.50 to 18.50	300 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	21	0
BH8	2	19	1 (3)	18.50	18.10	13.50 to 18.50	16/06/2020 15:27:02	-	-	-	6.45	-	-	-	-	-	-	-
Remarks: Pipe developed with pump intake installed to 18.00m depth.																		
BH8	2	19	2	18.50	---	13.50 to 18.50	23/06/2020 08:45:35	1021	1021	0.1 _(I)	-	-	-	-	-	-	-	-
BH8	2	19	2		---	13.50 to 18.50	40 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH8	2	19	2 (2)	18.50	---	13.50 to 18.50	23/06/2020 08:49:10	-	-	-	-	0.1	0.0	21.0	0.0	0.0	0	0
BH8	2	19	2 (2)		---	13.50 to 18.50	15 secs	-	-	-	-	0.1	0.0	20.9	0.0	-	24	0
BH8	2	19	2 (2)		---	13.50 to 18.50	30 secs	-	-	-	-	0.1	0.0	20.9	0.0	-	7	0
BH8	2	19	2 (2)		---	13.50 to 18.50	60 secs	-	-	-	-	0.1	0.0	21.0	0.0	-	2	0
BH8	2	19	2 (2)		---	13.50 to 18.50	90 secs	-	-	-	-	0.1	0.0	21.0	0.0	-	1	0
BH8	2	19	2 (2)		---	13.50 to 18.50	120 secs	-	-	-	-	0.1	0.0	21.0	0.0	-	1	0
BH8	2	19	2 (2)		---	13.50 to 18.50	180 secs	-	-	-	-	0.1	0.0	21.0	0.0	-	1	0
BH8	2	19	2 (2)		---	13.50 to 18.50	240 secs	-	-	-	-	0.1	0.0	21.0	0.0	-	1	0
BH8	2	19	2 (3)	18.50	18.25	13.50 to 18.50	23/06/2020 08:54:39	-	-	-	6.53	-	-	-	-	-	-	-
BH8	2	19	2 (2)	18.50	---	13.50 to 18.50	23/06/2020 08:59:39	-	-	-	-	0.1	0.0	21.0	0.0	-	1	0
BH8	2	19	3	18.50	---	13.50 to 18.50	07/07/2020 13:24:25	-	-	0.0 _(I)	-	-	-	-	-	-	-	-
BH8	2	19	3		---	13.50 to 18.50	35 secs	-	-	0.0 _(SS)	-	-	-	-	-	-	-	-
BH8	2	19	3 (2)	18.50	---	13.50 to 18.50	07/07/2020 13:27:13	-	-	-	-	0.0	0.0	21.7	0.0	0.0	1	0

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
	<i>Adh Lee</i>	23/09/20	<i>Adh Lee</i>	23/09/20	563166
Contract: Greenway					Page: 20 of 21 

IN-SITU GAS MONITORING RESULTS

Exploratory Position ID	Pipe ref	Pipe diameter (mm)	Monitoring Round	Reported Installation Depth (m)	Measured Installation Depth (mbgl)	Response Zone	Date & Time of Monitoring (elapsed time)	Borehole Pressure (mb)	Atmos Pressure (mb)	Gas Flow (l/hr)	Water Depth (mbgl)	Carbon Dioxide (% / vol)	Methane (% / vol)	Oxygen (% / vol)	LEL (%)	PID (ppm)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
BH8	2	19	3 (2)		---	13.50 to 18.50	15 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	5	0
BH8	2	19	3 (2)		---	13.50 to 18.50	31 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	2	0
BH8	2	19	3 (2)		---	13.50 to 18.50	62 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	2	0
BH8	2	19	3 (2)		---	13.50 to 18.50	92 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	2	0
BH8	2	19	3 (2)		---	13.50 to 18.50	122 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	2	0
BH8	2	19	3 (2)		---	13.50 to 18.50	182 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	2	0
BH8	2	19	3 (2)		---	13.50 to 18.50	242 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	2	0
BH8	2	19	3 (2)		---	13.50 to 18.50	302 secs	-	-	-	-	0.0	0.0	21.7	0.0	-	1	0
BH8	2	19	3 (3)	18.50	18.06	13.50 to 18.50	07/07/2020 13:37:12	-	-	-	6.51	-	-	-	-	-	-	-
BH8	2	19	4	18.50	---	13.50 to 18.50	04/08/2020 13:06:34	1013	1013	0.0 _(I)	-	-	-	-	-	-	-	-
BH8	2	19	4		---	13.50 to 18.50	50 secs	-	-	0.1 _(SS)	-	-	-	-	-	-	-	-
BH8	2	19	4 (2)	18.50	---	13.50 to 18.50	04/08/2020 13:09:59	-	-	-	-	0.0	0.0	22.2	0.0	0.0	1	0
BH8	2	19	4 (2)		---	13.50 to 18.50	15 secs	-	-	-	-	0.0	0.0	22.2	0.0	-	6	0
BH8	2	19	4 (2)		---	13.50 to 18.50	30 secs	-	-	-	-	0.0	0.0	22.2	0.0	-	2	0
BH8	2	19	4 (2)		---	13.50 to 18.50	60 secs	-	-	-	-	0.0	0.0	22.1	0.0	-	1	0
BH8	2	19	4 (2)		---	13.50 to 18.50	90 secs	-	-	-	-	0.0	0.0	22.1	0.0	-	1	0
BH8	2	19	4 (2)		---	13.50 to 18.50	120 secs	-	-	-	-	0.0	0.0	22.1	0.0	-	1	0
BH8	2	19	4 (2)		---	13.50 to 18.50	180 secs	-	-	-	-	0.0	0.0	22.0	0.0	-	1	0
BH8	2	19	4 (2)		---	13.50 to 18.50	240 secs	-	-	-	-	0.0	0.0	22.1	0.0	-	1	0
BH8	2	19	4 (2)		---	13.50 to 18.50	300 secs	-	-	-	-	0.0	0.0	22.1	0.0	-	1	0
BH8	2	19	4 (3)	18.50	18.10	13.50 to 18.50	04/08/2020 13:15:15	-	-	-	6.60	-	-	-	-	-	-	-

Key: I = Initial, Min = Minimum, P = Peak, SS = Steady State. Note: LEL = Lower Explosive Limit = 5% v/v.

 STRUCTURAL SOILS The Old School Stillhouse Lane Bedminster Bristol BS3 4EB	Compiled By	Date	Checked By	Date	Contract Ref:
	<i>Adh Use</i>	23/09/20	<i>Adh Use</i>	23/09/20	563166
Contract: Greenway					Page: 21 of 21 

APPENDIX C - DATA ASSESSMENTS

C.1.1 Land Quality Results Screening Summary Sheet Phase 1

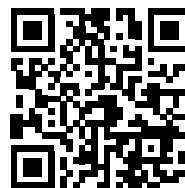
C.1.2 Land Quality Results Screening Summary Sheet Phase 2

Project ID: 415255-66
Project Name: WIS 60N 41024 The Greenway, Ickenham
Scope of Work: Ground investigation for the diversion of the West Rail Sid
Date of Drilling: May/June 2020

[illegible][illegible]

C.1.3 Hazardous Properties Assessments

Waste Classification Report



PFPW8-GVMEW-2G7B2

Job name

LON-41024

Description/Comments
Project

LON-41024 The Greenway, Ickenham

Site

The Greenway, Ickenham

Related Documents

#	Name	Description
None		

Waste Stream Template

GAC Tool Template v1

Classified by

Name: Lisa Da Silva Date: 01 May 2020 20:20 GMT Telephone: 01925 845000	Company: Stantec UK Ltd Dominion House Temple Court Warrington WA3 6GD	HazWasteOnline™ Training Record: Course Hazardous Waste Classification Advanced Hazardous Waste Classification Date 21 Nov 2019 22 Nov 2019
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Report

Created by: Lisa Da Silva
Created date: 01 May 2020 20:20 GMT

Job summary

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
1	BH3[3]	0.30-0.35	Non Hazardous		2
2	BH3[4]	0.90-1.00	Non Hazardous		5
3	BH1[2]	0.10-0.2	Non Hazardous		8
4	BH4[2]	0.90-1.00	Non Hazardous		11

Appendices	Page
Appendix A: Classifier defined and non CLP determinands	14
Appendix B: Rationale for selection of metal species	15
Appendix C: Version	16

Classification of sample: BH3[3]

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
BH3[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.30-0.35 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
20.3%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 20.3% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				4 mg/kg	1.32	5.281 mg/kg	0.000528 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide }				19 mg/kg	1.462	27.77 mg/kg	0.00278 %			
		215-160-9	1308-38-9								
4	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	034-002-00-8										
5	copper { dicopper oxide; copper (I) oxide }				9 mg/kg	1.126	10.133 mg/kg	0.00101 %			
	029-002-00-X	215-270-7	1317-39-1								
6	lead { lead chromate }			1	27 mg/kg	1.56	42.115 mg/kg	0.0027 %			
	082-004-00-2	231-846-0	7758-97-6								
7	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				10 mg/kg	2.976	29.763 mg/kg	0.00298 %			
	028-035-00-7	238-766-5	14721-18-7								
9	zinc { zinc chromate }				34 mg/kg	2.774	94.321 mg/kg	0.00943 %			
	024-007-00-3										
10	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
11	asbestos				100 mg/kg		100 mg/kg	0.01 %			
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
12	pH		PH		5.69 pH		5.69 pH	5.69 pH		
13	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
14	resorcinol; 1,3-benzenediol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-010-00-1	203-585-2	108-46-3							
15	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
16	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
17	Phenols, C9-11; Distillate Phenols			H, J, M	<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	648-127-00-6	293-435-2	91079-47-9							
18	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
19	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
20	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
21	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
22	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
23	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
24	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9							
25	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7							
26	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
27	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7							
28	fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0							
29	pyrene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0							
30	benzo[a]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
31	chrysene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
32	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
33	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
34	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
35	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5							

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number							
36		dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
		601-041-00-2	200-181-8	53-70-3							
37	●	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
			205-883-8	191-24-2							
38	●	polychlorobiphenyls; PCB				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
		602-039-00-4	215-648-1	1336-36-3							
39		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4							
Total: 0.0301 %											

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification
CLP: Note H	Known incomplete entry, should not be used as is

Classification of sample: BH3[4]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
BH3[4]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.90-1.00 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
18.5%	
(no correction)	

Hazard properties

None identified

Determinands

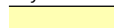
Moisture content: 18.5% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				8 mg/kg	1.32	10.563 mg/kg	0.00106 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				0.6 mg/kg	1.142	0.685 mg/kg	0.0000685 %			
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide }				36 mg/kg	1.462	52.616 mg/kg	0.00526 %			
		215-160-9	1308-38-9								
4	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	034-002-00-8										
5	copper { dicopper oxide; copper (I) oxide }				15 mg/kg	1.126	16.888 mg/kg	0.00169 %			
	029-002-00-X	215-270-7	1317-39-1								
6	lead { lead chromate }			1	12 mg/kg	1.56	18.718 mg/kg	0.0012 %			
	082-004-00-2	231-846-0	7758-97-6								
7	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				21 mg/kg	2.976	62.502 mg/kg	0.00625 %			
	028-035-00-7	238-766-5	14721-18-7								
9	zinc { zinc chromate }				46 mg/kg	2.774	127.611 mg/kg	0.0128 %			
	024-007-00-3										
10	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
11	pH				8.02 pH		8.02 pH	8.02 pH			
			PH								
12	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
13	resorcinol; 1,3-benzenediol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	604-010-00-1	203-585-2	108-46-3								

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
14	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.2 mg/kg			<0.2 mg/kg		<0.00002 %		<LOD
	604-004-00-9	203-577-9 [1]	108-39-4 [1]									
		202-423-8 [2]	95-48-7 [2]									
		203-398-6 [3]	106-44-5 [3]									
15	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]				<0.2 mg/kg			<0.2 mg/kg		<0.00002 %		<LOD
	604-006-00-X	202-439-5 [1]	95-65-8 [1] 95-87-4									
		202-461-5 [2]	[2] 105-67-9 [3]									
		203-321-6 [3]	526-75-0 [4]									
16	Phenols, C9-11; Distillate Phenols			H, J, M	<0.2 mg/kg			<0.2 mg/kg		<0.00002 %		<LOD
	648-127-00-6	293-435-2	91079-47-9									
17	benzene				<0.01 mg/kg			<0.01 mg/kg		<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
18	toluene				<0.01 mg/kg			<0.01 mg/kg		<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
19	ethylbenzene				<0.01 mg/kg			<0.01 mg/kg		<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
20	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.01 mg/kg			<0.01 mg/kg		<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1]	95-47-6 [1]									
		203-396-5 [2]	106-42-3 [2]									
		203-576-3 [3]	108-38-3 [3]									
21	naphthalene				<0.03 mg/kg			<0.03 mg/kg		<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.1 mg/kg			<0.1 mg/kg		<0.00001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01 mg/kg			<0.01 mg/kg		<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01 mg/kg			<0.01 mg/kg		<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03 mg/kg			<0.03 mg/kg		<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02 mg/kg			<0.02 mg/kg		<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08 mg/kg			<0.08 mg/kg		<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07 mg/kg			<0.07 mg/kg		<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04 mg/kg			<0.04 mg/kg		<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06 mg/kg			<0.06 mg/kg		<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05 mg/kg			<0.05 mg/kg		<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07 mg/kg			<0.07 mg/kg		<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg			<0.04 mg/kg		<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03 mg/kg			<0.03 mg/kg		<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04 mg/kg			<0.04 mg/kg		<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05 mg/kg			<0.05 mg/kg		<0.000005 %		<LOD
		205-883-8	191-24-2									
37	polychlorobiphenyls; PCB				<0.007 mg/kg			<0.007 mg/kg		<0.0000007 %		<LOD
	602-039-00-4	215-648-1	1336-36-3									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
38	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0289 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification
CLP: Note H	Known incomplete entry, should not be used as is

Classification of sample: BH1[2]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
BH1[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.10-0.2 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
17.9%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **17.9%** No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				8 mg/kg	1.32	10.563 mg/kg	0.00106 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				3.1 mg/kg	1.142	3.541 mg/kg	0.000354 %			
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide }				45 mg/kg	1.462	65.77 mg/kg	0.00658 %			
		215-160-9	1308-38-9								
4	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	034-002-00-8										
5	copper { dicopper oxide; copper (I) oxide }				78 mg/kg	1.126	87.819 mg/kg	0.00878 %			
	029-002-00-X	215-270-7	1317-39-1								
6	lead { lead chromate }			1	107 mg/kg	1.56	166.9 mg/kg	0.0107 %			
	082-004-00-2	231-846-0	7758-97-6								
7	mercury { mercury dichloride }				0.27 mg/kg	1.353	0.365 mg/kg	0.0000365 %			
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				38 mg/kg	2.976	113.098 mg/kg	0.0113 %			
	028-035-00-7	238-766-5	14721-18-7								
9	zinc { zinc chromate }				171 mg/kg	2.774	474.379 mg/kg	0.0474 %			
	024-007-00-3										
10	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
11	asbestos				100 mg/kg		100 mg/kg	0.01 %			
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
12	pH		PH		7.41 pH		7.41 pH	7.41 pH		
13	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
14	resorcinol; 1,3-benzenediol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-010-00-1	203-585-2	108-46-3							
15	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
16	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
17	Phenols, C9-11; Distillate Phenols			H, J, M	<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	648-127-00-6	293-435-2	91079-47-9							
18	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
19	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
20	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
21	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
22	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
23	acenaphthylene				0.01 mg/kg		0.01 mg/kg	0.000001 %		
		205-917-1	208-96-8							
24	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9							
25	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7							
26	phenanthrene				0.22 mg/kg		0.22 mg/kg	0.000022 %		
		201-581-5	85-01-8							
27	anthracene				0.05 mg/kg		0.05 mg/kg	0.000005 %		
		204-371-1	120-12-7							
28	fluoranthene				0.79 mg/kg		0.79 mg/kg	0.000079 %		
		205-912-4	206-44-0							
29	pyrene				0.78 mg/kg		0.78 mg/kg	0.000078 %		
		204-927-3	129-00-0							
30	benzo[a]anthracene				0.52 mg/kg		0.52 mg/kg	0.000052 %		
	601-033-00-9	200-280-6	56-55-3							
31	chrysene				0.57 mg/kg		0.57 mg/kg	0.000057 %		
	601-048-00-0	205-923-4	218-01-9							
32	benzo[b]fluoranthene				0.78 mg/kg		0.78 mg/kg	0.000078 %		
	601-034-00-4	205-911-9	205-99-2							
33	benzo[k]fluoranthene				0.29 mg/kg		0.29 mg/kg	0.000029 %		
	601-036-00-5	205-916-6	207-08-9							
34	benzo[a]pyrene; benzo[def]chrysene				0.61 mg/kg		0.61 mg/kg	0.000061 %		
	601-032-00-3	200-028-5	50-32-8							
35	indeno[123-cd]pyrene				0.39 mg/kg		0.39 mg/kg	0.000039 %		
		205-893-2	193-39-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
36	dibenz[a,h]anthracene				0.07 mg/kg		0.07 mg/kg	0.000007 %		
	601-041-00-2	200-181-8	53-70-3							
37	benzo[ghi]perylene				0.35 mg/kg		0.35 mg/kg	0.000035 %		
		205-883-8	191-24-2							
38	polychlorobiphenyls; PCB				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
39	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0974 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification
CLP: Note H	Known incomplete entry, should not be used as is

Classification of sample: BH4[2]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:	
BH4[2]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.90-1.00 m		
Moisture content:		
19.7%		
(no correction)		

Hazard properties

None identified

Determinands

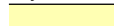
Moisture content: 19.7% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				9 mg/kg	1.32	11.883 mg/kg	0.00119 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				0.8 mg/kg	1.142	0.914 mg/kg	0.0000914 %			
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide }				28 mg/kg	1.462	40.924 mg/kg	0.00409 %			
		215-160-9	1308-38-9								
4	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				1 mg/kg	2.554	2.554 mg/kg	0.000255 %			
	034-002-00-8										
5	copper { dicopper oxide; copper (I) oxide }				17 mg/kg	1.126	19.14 mg/kg	0.00191 %			
	029-002-00-X	215-270-7	1317-39-1								
6	lead { lead chromate }			1	15 mg/kg	1.56	23.397 mg/kg	0.0015 %			
	082-004-00-2	231-846-0	7758-97-6								
7	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				22 mg/kg	2.976	65.478 mg/kg	0.00655 %			
	028-035-00-7	238-766-5	14721-18-7								
9	zinc { zinc chromate }				43 mg/kg	2.774	119.288 mg/kg	0.0119 %			
	024-007-00-3										
10	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
11	pH				6.78 pH		6.78 pH	6.78 pH			
			PH								
12	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
13	resorcinol; 1,3-benzenediol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	604-010-00-1	203-585-2	108-46-3								

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
14	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-004-00-9	203-577-9 [1]	108-39-4 [1]									
		202-423-8 [2]	95-48-7 [2]									
		203-398-6 [3]	106-44-5 [3]									
15	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-006-00-X	202-439-5 [1]	95-65-8 [1] 95-87-4									
		202-461-5 [2]	[2] 105-67-9 [3]									
		203-321-6 [3]	526-75-0 [4]									
16	Phenols, C9-11; Distillate Phenols			H, J, M	<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	648-127-00-6	293-435-2	91079-47-9									
17	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
18	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
19	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
20	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1]	95-47-6 [1]									
		203-396-5 [2]	106-42-3 [2]									
		203-576-3 [3]	108-38-3 [3]									
21	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
26	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
27	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
28	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
29	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
34	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
35	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
36	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									
37	polychlorobiphenyls; PCB				<0.007	mg/kg		<0.007	mg/kg	<0.0000007 %		<LOD
	602-039-00-4	215-648-1	1336-36-3									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
38	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
Total:								0.0279 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification
CLP: Note H	Known incomplete entry, should not be used as is

Appendix A: Classifier defined and non CLP determinands

■ **chromium(III) oxide** (EC Number: 215-160-9, CAS Number: 1308-38-9)

Conversion factor: 1.462

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Repr. 1B H360FD , Skin Sens. 1 H317 , Resp. Sens. 1 H334 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302 , Acute Tox. 4 H332

■ **salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex**

CLP index number: 006-007-00-5

Description/Comments: Conversion factor based on a worst case compound: sodium cyanide

Data source: Commission Regulation (EC) No 790/2009 - 1st Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP1)

Additional Hazard Statement(s): EUH032 >= 0.2 %

Reason for additional Hazards Statement(s):

14 Dec 2015 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

■ **pH** (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

■ **ethylbenzene** (EC Number: 202-849-4, CAS Number: 100-41-4)

CLP index number: 601-023-00-4

Description/Comments:

Data source: Commission Regulation (EU) No 605/2014 – 6th Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP6)

Additional Hazard Statement(s): Carc. 2 H351

Reason for additional Hazards Statement(s):

03 Jun 2015 - Carc. 2 H351 hazard statement sourced from: IARC Group 2B (77) 2000

■ **acenaphthylene** (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 1 H310 , Acute Tox. 1 H330 , Acute Tox. 4 H302

■ **acenaphthene** (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Aquatic Chronic 2 H411 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

■ **fluorene** (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400

■ **phenanthrene** (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Skin Irrit. 2 H315 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Carc. 2 H351 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302

• **anthracene** (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

• **fluoranthene** (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Acute Tox. 4 H302

• **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315

• **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Carc. 2 H351

• **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 23 Jul 2015

Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400

• **polychlorobiphenyls; PCB** (EC Number: 215-648-1, CAS Number: 1336-36-3)

CLP index number: 602-039-00-4

Description/Comments: Worst Case: IARC considers PCB Group 1; Carcinogenic to humans; POP specific threshold from ATP1 (Regulation 756/2010/EU) to POPs Regulation (Regulation 850/2004/EC). Where applicable, the calculation method laid down in European standards EN 12766-1 and EN 12766-2 shall be applied.

Data source: Regulation 1272/2008/EC - Classification, labelling and packaging of substances and mixtures. (CLP)

Additional Hazard Statement(s): Carc. 1A H350

Reason for additional Hazards Statement(s):

29 Sep 2015 - Carc. 1A H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Reasonable case CLP species based on hazard statements/molecular weight and most common (stable) oxide of arsenic. Industrial sources include: smelting; main precursor to other arsenic compounds.

cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. Worst case compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history.

chromium in chromium(III) compounds {chromium(III) oxide}

Reasonable case species based on hazard statements/molecular weight. Industrial sources include: tanning, pigment in paint, inks and glass.

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case. Pigment cadmium sulphoselenide not likely to be present in this soil. No evidence for the other CLP entries: sodium selenite, nickel II selenite and nickel selenide, to be present in this soil.

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Industrial sources include: oxidised copper metal, brake pads, pigments, antifouling paints, fungicide. Worse case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected.

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight.

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight.

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight.

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight.

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case as complex cyanides and those specified elsewhere in the annex are not likely to be present in this soil: [Note conversion factor based on a worst case compound: sodium cyanide].

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.1, May 2018**

HazWasteOnline Classification Engine Version: 2020.122.4274.8450 (01 May 2020)

HazWasteOnline Database: 2020.122.4276.8452 (01 May 2020)

This classification utilises the following guidance and legislation:

WM3 v1.1 - Waste Classification - 1st Edition v1.1 - May 2018

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Wastes 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

14th ATP - Regulation (EU) 2020/217 of 4 October 2019

POPs Regulation 2004 - Regulation 850/2004/EC of 29 April 2004

1st ATP to POPs Regulation - Regulation 756/2010/EU of 24 August 2010

2nd ATP to POPs Regulation - Regulation 757/2010/EU of 24 August 2010

Waste Classification Report



F728L-HLQPL-KTAMN

Job name

The Greenway - Phase 2

Description/Comments

9x soil samples from boreholes BH5 to BH8, collected May/June 2020.

Project

HS2 Non-Contestables

Site

The Greenway, Ickenham - Phase 2

Related Documents

#	Name	Description
None		

Waste Stream Template

GAC Tool Template v2

Classified by

Name: Lisa Da Silva Date: 20 Aug 2020 18:50 GMT Telephone: 01925 845000	Company: Stantec UK Ltd Dominion House Temple Court Warrington WA3 6GD	HazWasteOnline™ Training Record: Course Hazardous Waste Classification Advanced Hazardous Waste Classification Date 21 Nov 2019 22 Nov 2019
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Report

Created by: Lisa Da Silva
Created date: 20 Aug 2020 18:50 GMT

Job summary

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
1	BH5	0.50	Non Hazardous		3
2	BH5[2]	0.90	Non Hazardous		6
3	BH6	0.20	Non Hazardous		9
4	BH6[2]	0.40	Non Hazardous		12
5	BH6[3]	0.70	Non Hazardous		15
6	BH7	0.30	Non Hazardous		18
7	BH7[2]	2.70	Non Hazardous		21
8	BH8	0.20	Non Hazardous		24
9	BH8[2]	5.00	Non Hazardous		27

Appendices	Page
Appendix A: Classifier defined and non CLP determinands	30
Appendix B: Rationale for selection of metal species	31
Appendix C: Version	32

Classification of sample: BH5

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:	
BH5	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.50 m		
Moisture content:		
16.8%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: 16.8% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %			<LOD
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				37 mg/kg	1.462	54.078 mg/kg	0.00541 %			
		215-160-9	1308-38-9								
4	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	034-002-00-8										
5	copper { dicopper oxide; copper (I) oxide }				11 mg/kg	1.126	12.385 mg/kg	0.00124 %			
	029-002-00-X	215-270-7	1317-39-1								
6	lead { lead chromate }			1	15 mg/kg	1.56	23.397 mg/kg	0.0015 %			
	082-004-00-2	231-846-0	7758-97-6								
7	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				17 mg/kg	2.976	50.597 mg/kg	0.00506 %			
	028-035-00-7	238-766-5	14721-18-7								
9	zinc { zinc chromate }				46 mg/kg	2.774	127.611 mg/kg	0.0128 %			
	024-007-00-3	236-878-9	13530-65-9								
10	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
11	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
12	asbestos				100 mg/kg		100 mg/kg	0.01 %			
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4								

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
			77536-68-6 77536-67-5 12001-29-5									
13	pH				7.99	pH		7.99	pH	7.99 pH		
14	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
15	resorcinol; 1,3-benzenediol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-010-00-1	203-585-2	108-46-3									
16	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
17	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
18	Phenols, C9-11; Distillate Phenols			H, J, M	<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	648-127-00-6	293-435-2	91079-47-9									
19	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
20	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
21	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
22	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
23	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
24	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
25	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
26	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
27	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
28	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
29	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
30	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
31	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
32	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
33	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
34	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
35	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
36	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-893-2	193-39-5								
37	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
		601-041-00-2	200-181-8								
38	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
			205-883-8								
39	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
			TPH								
Total:									0.0381 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
- Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- ND** Not detected
- CLP: Note 1 Only the metal concentration has been used for classification
- CLP: Note H Known incomplete entry, should not be used as is

Classification of sample: BH5[2]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
BH5[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.90 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
17.2%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 17.2% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %			<LOD
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				47 mg/kg	1.462	68.693 mg/kg	0.00687 %			
		215-160-9	1308-38-9								
4	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	034-002-00-8										
5	copper { dicopper oxide; copper (I) oxide }				20 mg/kg	1.126	22.518 mg/kg	0.00225 %			
	029-002-00-X	215-270-7	1317-39-1								
6	lead { lead chromate }			1	16 mg/kg	1.56	24.957 mg/kg	0.0016 %			
	082-004-00-2	231-846-0	7758-97-6								
7	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				35 mg/kg	2.976	104.169 mg/kg	0.0104 %			
	028-035-00-7	238-766-5	14721-18-7								
9	zinc { zinc chromate }				54 mg/kg	2.774	149.804 mg/kg	0.015 %			
	024-007-00-3	236-878-9	13530-65-9								
10	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
11	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
12	pH				7.76 pH		7.76 pH	7.76 pH			
			pH								
13	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	604-001-00-2	203-632-7	108-95-2								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
14	resorcinol; 1,3-benzenediol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-010-00-1	203-585-2	108-46-3							
15	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-004-00-9	203-577-9 [1]	108-39-4 [1]							
		202-423-8 [2]	95-48-7 [2]							
		203-398-6 [3]	106-44-5 [3]							
		215-293-2 [4]	1319-77-3 [4]							
16	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-006-00-X	202-439-5 [1]	95-65-8 [1] 95-87-4							
		202-461-5 [2]	[2] 105-67-9 [3]							
		203-321-6 [3]	526-75-0 [4]							
		208-395-3 [4]	576-26-1 [5]							
		209-400-1 [5]	1300-71-6 [6]							
		215-089-3 [6]	71975-58-1 [7]							
		276-245-4 [7]								
17	Phenols, C9-11; Distillate Phenols			H, J, M	<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	648-127-00-6	293-435-2	91079-47-9							
18	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
19	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
20	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
21	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1]	95-47-6 [1]							
		203-396-5 [2]	106-42-3 [2]							
		203-576-3 [3]	108-38-3 [3]							
		215-535-7 [4]	1330-20-7 [4]							
22	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
23	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8							
24	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9							
25	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7							
26	phenanthrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8							
27	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7							
28	fluoranthene				<0.08 mg/kg		<0.08 mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0							
29	pyrene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0							
30	benzo[a]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
31	chrysene				<0.06 mg/kg		<0.06 mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
32	benzo[b]fluoranthene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
33	benzo[k]fluoranthene				<0.07 mg/kg		<0.07 mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
34	benzo[a]pyrene; benzo[def]chrysene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
35	indeno[123-cd]pyrene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5							
36	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
37	benzo[ghi]perylene				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
38	●	TPH (C6 to C40) petroleum group			<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
Total:								0.0383 %		

Key

- User supplied data
- Determinand values ignored for classification, see column 'Conc. Not Used' for reason
- Determinand defined or amended by HazWasteOnline (see Appendix A)
-  Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
- <LOD** Below limit of detection
- ND** Not detected
- CLP: Note 1 Only the metal concentration has been used for classification
- CLP: Note H Known incomplete entry, should not be used as is

Classification of sample: BH6

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:	
BH6	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.20 m		
Moisture content:		
13.9%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: 13.9% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				3 mg/kg	1.32	3.961 mg/kg	0.000396 %		
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				37 mg/kg	1.462	54.078 mg/kg	0.00541 %		
		215-160-9	1308-38-9							
4	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %		<LOD
	034-002-00-8									
5	copper { dicopper oxide; copper (I) oxide }				25 mg/kg	1.126	28.147 mg/kg	0.00281 %		
	029-002-00-X	215-270-7	1317-39-1							
6	lead { lead chromate }			1	40 mg/kg	1.56	62.393 mg/kg	0.004 %		
	082-004-00-2	231-846-0	7758-97-6							
7	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
8	nickel { nickel chromate }				27 mg/kg	2.976	80.359 mg/kg	0.00804 %		
	028-035-00-7	238-766-5	14721-18-7							
9	zinc { zinc chromate }				71 mg/kg	2.774	196.964 mg/kg	0.0197 %		
	024-007-00-3	236-878-9	13530-65-9							
10	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
11	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
	006-007-00-5									
12	asbestos				100 mg/kg		100 mg/kg	0.01 %		
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
			77536-68-6 77536-67-5 12001-29-5									
13	pH				7.57	pH		7.57	pH	7.57 pH		
			PH									
14	phenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2									
15	resorcinol; 1,3-benzenediol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-010-00-1	203-585-2	108-46-3									
16	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
17	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
18	Phenols, C9-11; Distillate Phenols			H, J, M	<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	648-127-00-6	293-435-2	91079-47-9									
19	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
20	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
21	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
22	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
23	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
24	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
25	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
26	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
27	phenanthrene				0.14	mg/kg		0.14	mg/kg	0.000014 %		
		201-581-5	85-01-8									
28	anthracene				0.03	mg/kg		0.03	mg/kg	0.000003 %		
		204-371-1	120-12-7									
29	fluoranthene				0.35	mg/kg		0.35	mg/kg	0.000035 %		
		205-912-4	206-44-0									
30	pyrene				0.31	mg/kg		0.31	mg/kg	0.000031 %		
		204-927-3	129-00-0									
31	benzo[a]anthracene				0.15	mg/kg		0.15	mg/kg	0.000015 %		
	601-033-00-9	200-280-6	56-55-3									
32	chrysene				0.23	mg/kg		0.23	mg/kg	0.000023 %		
	601-048-00-0	205-923-4	218-01-9									
33	benzo[b]fluoranthene				0.21	mg/kg		0.21	mg/kg	0.000021 %		
	601-034-00-4	205-911-9	205-99-2									
34	benzo[k]fluoranthene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
	601-036-00-5	205-916-6	207-08-9									
35	benzo[a]pyrene; benzo[def]chrysene				0.19	mg/kg		0.19	mg/kg	0.000019 %		
	601-032-00-3	200-028-5	50-32-8									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
36	indeno[123-cd]pyrene	205-893-2	193-39-5		0.14 mg/kg		0.14 mg/kg	0.000014 %		
37	dibenz[a,h]anthracene	200-181-8	53-70-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
38	benzo[ghi]perylene	205-883-8	191-24-2		0.14 mg/kg		0.14 mg/kg	0.000014 %		
39	TPH (C6 to C40) petroleum group		TPH		34 mg/kg		34 mg/kg	0.0034 %		
40	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	216-653-1	1634-04-4		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
41	aldrin (ISO)	206-215-8	309-00-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
42	dieldrin (ISO)	200-484-5	60-57-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
43	atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine	217-617-8	1912-24-9		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
44	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate	200-547-7	62-73-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
45	hexachlorobenzene	204-273-9	118-74-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
Total:								0.0549 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification
CLP: Note H	Known incomplete entry, should not be used as is

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No liquid phase encountered.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0034%)

Classification of sample: BH6[2]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
BH6[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.40 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
14.4%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **14.4%** No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				6 mg/kg	1.32	7.922 mg/kg	0.000792 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				34 mg/kg	1.462	49.693 mg/kg	0.00497 %			
		215-160-9	1308-38-9								
4	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	034-002-00-8										
5	copper { dicopper oxide; copper (I) oxide }				13 mg/kg	1.126	14.637 mg/kg	0.00146 %			
	029-002-00-X	215-270-7	1317-39-1								
6	lead { lead chromate }			1	24 mg/kg	1.56	37.436 mg/kg	0.0024 %			
	082-004-00-2	231-846-0	7758-97-6								
7	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				16 mg/kg	2.976	47.62 mg/kg	0.00476 %			
	028-035-00-7	238-766-5	14721-18-7								
9	zinc { zinc chromate }				49 mg/kg	2.774	135.933 mg/kg	0.0136 %			
	024-007-00-3	236-878-9	13530-65-9								
10	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
11	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
12	pH				7.83 pH		7.83 pH	7.83 pH			
			pH								
13	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	604-001-00-2	203-632-7	108-95-2								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
14	resorcinol; 1,3-benzenediol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	604-010-00-1	203-585-2	108-46-3								
15	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	604-004-00-9	203-577-9 [1]	108-39-4 [1]								
		202-423-8 [2]	95-48-7 [2]								
		203-398-6 [3]	106-44-5 [3]								
		215-293-2 [4]	1319-77-3 [4]								
16	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	604-006-00-X	202-439-5 [1]	95-65-8 [1] 95-87-4								
		202-461-5 [2]	[2] 105-67-9 [3]								
		203-321-6 [3]	526-75-0 [4]								
		208-395-3 [4]	576-26-1 [5]								
		209-400-1 [5]	1300-71-6 [6]								
		215-089-3 [6]	71975-58-1 [7]								
		276-245-4 [7]									
17	Phenols, C9-11; Distillate Phenols			H, J, M	<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	648-127-00-6	293-435-2	91079-47-9								
18	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
19	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
20	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
21	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	601-022-00-9	202-422-2 [1]	95-47-6 [1]								
		203-396-5 [2]	106-42-3 [2]								
		203-576-3 [3]	108-38-3 [3]								
		215-535-7 [4]	1330-20-7 [4]								
22	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
23	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		205-917-1	208-96-8								
24	acenaphthene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-469-6	83-32-9								
25	fluorene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
		201-695-5	86-73-7								
26	phenanthrene				0.12 mg/kg		0.12 mg/kg	0.000012 %			
		201-581-5	85-01-8								
27	anthracene				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %			<LOD
		204-371-1	120-12-7								
28	fluoranthene				0.28 mg/kg		0.28 mg/kg	0.000028 %			
		205-912-4	206-44-0								
29	pyrene				0.25 mg/kg		0.25 mg/kg	0.000025 %			
		204-927-3	129-00-0								
30	benzo[a]anthracene				0.12 mg/kg		0.12 mg/kg	0.000012 %			
	601-033-00-9	200-280-6	56-55-3								
31	chrysene				0.19 mg/kg		0.19 mg/kg	0.000019 %			
	601-048-00-0	205-923-4	218-01-9								
32	benzo[b]fluoranthene				0.15 mg/kg		0.15 mg/kg	0.000015 %			
	601-034-00-4	205-911-9	205-99-2								
33	benzo[k]fluoranthene				0.08 mg/kg		0.08 mg/kg	0.000008 %			
	601-036-00-5	205-916-6	207-08-9								
34	benzo[a]pyrene; benzo[def]chrysene				0.15 mg/kg		0.15 mg/kg	0.000015 %			
	601-032-00-3	200-028-5	50-32-8								
35	indeno[123-cd]pyrene				0.11 mg/kg		0.11 mg/kg	0.000011 %			
		205-893-2	193-39-5								
36	dibenz[a,h]anthracene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
37	benzo[ghi]perylene				0.11 mg/kg		0.11 mg/kg	0.000011 %			
		205-883-8	191-24-2								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used	
	CLP index number	EC Number	CAS Number								
38	●	TPH (C6 to C40) petroleum group			48	mg/kg	48	mg/kg	0.0048 %		
			TPH								
Total:								0.0339 %			

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
●	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification
CLP: Note H	Known incomplete entry, should not be used as is

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because No liquid phase encountered.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0048%)

Classification of sample: BH6[3]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:	
BH6[3]	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.70 m		
Moisture content:		
14.9%		
(no correction)		

Hazard properties

None identified

Determinands

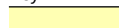
Moisture content: 14.9% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				<1 mg/kg	1.32	<1.32 mg/kg	<0.000132 %			<LOD
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				51 mg/kg	1.462	74.539 mg/kg	0.00745 %			
		215-160-9	1308-38-9								
4	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	034-002-00-8										
5	copper { dicopper oxide; copper (I) oxide }				21 mg/kg	1.126	23.644 mg/kg	0.00236 %			
	029-002-00-X	215-270-7	1317-39-1								
6	lead { lead chromate }			1	15 mg/kg	1.56	23.397 mg/kg	0.0015 %			
	082-004-00-2	231-846-0	7758-97-6								
7	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				47 mg/kg	2.976	139.884 mg/kg	0.014 %			
	028-035-00-7	238-766-5	14721-18-7								
9	zinc { zinc chromate }				59 mg/kg	2.774	163.675 mg/kg	0.0164 %			
	024-007-00-3	236-878-9	13530-65-9								
10	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
11	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
12	pH				7.71 pH		7.71 pH	7.71 pH			
			PH								
13	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	604-001-00-2	203-632-7	108-95-2								

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
14	resorcinol; 1,3-benzenediol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-010-00-1	203-585-2	108-46-3									
15	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-004-00-9	203-577-9 [1]	108-39-4 [1]									
		202-423-8 [2]	95-48-7 [2]									
		203-398-6 [3]	106-44-5 [3]									
		215-293-2 [4]	1319-77-3 [4]									
16	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-006-00-X	202-439-5 [1]	95-65-8 [1] 95-87-4									
		202-461-5 [2]	[2] 105-67-9 [3]									
		203-321-6 [3]	526-75-0 [4]									
		208-395-3 [4]	576-26-1 [5]									
		209-400-1 [5]	1300-71-6 [6]									
		215-089-3 [6]	71975-58-1 [7]									
		276-245-4 [7]										
17	Phenols, C9-11; Distillate Phenols			H, J, M	<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	648-127-00-6	293-435-2	91079-47-9									
18	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
19	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
20	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
21	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1]	95-47-6 [1]									
		203-396-5 [2]	106-42-3 [2]									
		203-576-3 [3]	108-38-3 [3]									
		215-535-7 [4]	1330-20-7 [4]									
22	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
23	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
24	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
25	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
26	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
27	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
28	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
29	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
30	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
31	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
32	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
33	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
34	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
35	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
36	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
37	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
38	●	TPH (C6 to C40) petroleum group			<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
Total:							0.0438 %			

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification
CLP: Note H	Known incomplete entry, should not be used as is

Classification of sample: BH7

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
BH7	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.30 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
12.2%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **12.2%** No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				3 mg/kg	1.32	3.961 mg/kg	0.000396 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				27 mg/kg	1.462	39.462 mg/kg	0.00395 %			
		215-160-9	1308-38-9								
4	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	034-002-00-8										
5	copper { dicopper oxide; copper (I) oxide }				25 mg/kg	1.126	28.147 mg/kg	0.00281 %			
	029-002-00-X	215-270-7	1317-39-1								
6	lead { lead chromate }			1	79 mg/kg	1.56	123.225 mg/kg	0.0079 %			
	082-004-00-2	231-846-0	7758-97-6								
7	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				16 mg/kg	2.976	47.62 mg/kg	0.00476 %			
	028-035-00-7	238-766-5	14721-18-7								
9	zinc { zinc chromate }				93 mg/kg	2.774	257.996 mg/kg	0.0258 %			
	024-007-00-3	236-878-9	13530-65-9								
10	boron { diboron trioxide; boric oxide }				1.4 mg/kg	3.22	4.508 mg/kg	0.000451 %			
	005-008-00-8	215-125-8	1303-86-2								
11	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
12	asbestos				100 mg/kg		100 mg/kg	0.01 %			
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
			77536-68-6 77536-67-5 12001-29-5							
13	pH				7.33 pH		7.33 pH	7.33 pH		
			PH							
14	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
15	resorcinol; 1,3-benzenediol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-010-00-1	203-585-2	108-46-3							
16	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
17	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
18	Phenols, C9-11; Distillate Phenols			H, J, M	<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	648-127-00-6	293-435-2	91079-47-9							
19	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
20	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
21	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
22	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
23	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
24	acenaphthylene				0.07 mg/kg		0.07 mg/kg	0.000007 %		
		205-917-1	208-96-8							
25	acenaphthene				0.09 mg/kg		0.09 mg/kg	0.000009 %		
		201-469-6	83-32-9							
26	fluorene				0.07 mg/kg		0.07 mg/kg	0.000007 %		
		201-695-5	86-73-7							
27	phenanthrene				1.44 mg/kg		1.44 mg/kg	0.000144 %		
		201-581-5	85-01-8							
28	anthracene				0.44 mg/kg		0.44 mg/kg	0.000044 %		
		204-371-1	120-12-7							
29	fluoranthene				5.99 mg/kg		5.99 mg/kg	0.000599 %		
		205-912-4	206-44-0							
30	pyrene				5.58 mg/kg		5.58 mg/kg	0.000558 %		
		204-927-3	129-00-0							
31	benzo[a]anthracene				3.45 mg/kg		3.45 mg/kg	0.000345 %		
	601-033-00-9	200-280-6	56-55-3							
32	chrysene				3.05 mg/kg		3.05 mg/kg	0.000305 %		
	601-048-00-0	205-923-4	218-01-9							
33	benzo[b]fluoranthene				3.48 mg/kg		3.48 mg/kg	0.000348 %		
	601-034-00-4	205-911-9	205-99-2							
34	benzo[k]fluoranthene				1.19 mg/kg		1.19 mg/kg	0.000119 %		
	601-036-00-5	205-916-6	207-08-9							
35	benzo[a]pyrene; benzo[def]chrysene				3 mg/kg		3 mg/kg	0.0003 %		
	601-032-00-3	200-028-5	50-32-8							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
36	indeno[123-cd]pyrene	205-893-2	193-39-5		1.92 mg/kg		1.92 mg/kg	0.000192 %		
37	dibenz[a,h]anthracene	601-041-00-2	200-181-8		0.35 mg/kg		0.35 mg/kg	0.000035 %		
38	benzo[ghi]perylene	205-883-8	191-24-2		1.46 mg/kg		1.46 mg/kg	0.000146 %		
39	TPH (C6 to C40) petroleum group		TPH		371 mg/kg		371 mg/kg	0.0371 %		
Total:								0.097 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification
CLP: Note H	Known incomplete entry, should not be used as is

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No liquid phase encountered.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0371%)

Classification of sample: BH7[2]

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
BH7[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.70 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
16.1%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 16.1% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				4 mg/kg	1.32	5.281 mg/kg	0.000528 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				0.6 mg/kg	1.142	0.685 mg/kg	0.0000685 %			
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				23 mg/kg	1.462	33.616 mg/kg	0.00336 %			
		215-160-9	1308-38-9								
4	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	034-002-00-8										
5	copper { dicopper oxide; copper (I) oxide }				15 mg/kg	1.126	16.888 mg/kg	0.00169 %			
	029-002-00-X	215-270-7	1317-39-1								
6	lead { lead chromate }			1	21 mg/kg	1.56	32.756 mg/kg	0.0021 %			
	082-004-00-2	231-846-0	7758-97-6								
7	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				62 mg/kg	2.976	184.528 mg/kg	0.0185 %			
	028-035-00-7	238-766-5	14721-18-7								
9	zinc { zinc chromate }				43 mg/kg	2.774	119.288 mg/kg	0.0119 %			
	024-007-00-3	236-878-9	13530-65-9								
10	boron { diboron trioxide; boric oxide }				1 mg/kg	3.22	3.22 mg/kg	0.000322 %			
	005-008-00-8	215-125-8	1303-86-2								
11	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
12	pH				8.56 pH		8.56 pH	8.56 pH			
			PH								
13	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	604-001-00-2	203-632-7	108-95-2								

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
14	resorcinol; 1,3-benzenediol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-010-00-1	203-585-2	108-46-3									
15	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-004-00-9	203-577-9 [1]	108-39-4 [1]									
		202-423-8 [2]	95-48-7 [2]									
		203-398-6 [3]	106-44-5 [3]									
		215-293-2 [4]	1319-77-3 [4]									
16	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-006-00-X	202-439-5 [1]	95-65-8 [1] 95-87-4									
		202-461-5 [2]	[2] 105-67-9 [3]									
		203-321-6 [3]	526-75-0 [4]									
		208-395-3 [4]	576-26-1 [5]									
		209-400-1 [5]	1300-71-6 [6]									
		215-089-3 [6]	71975-58-1 [7]									
		276-245-4 [7]										
17	Phenols, C9-11; Distillate Phenols			H, J, M	<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	648-127-00-6	293-435-2	91079-47-9									
18	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
19	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
20	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
21	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1]	95-47-6 [1]									
		203-396-5 [2]	106-42-3 [2]									
		203-576-3 [3]	108-38-3 [3]									
		215-535-7 [4]	1330-20-7 [4]									
22	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
23	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
24	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
25	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
26	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
27	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
28	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
29	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
30	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
31	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
32	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
33	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
34	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
35	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
36	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
37	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
38	●	TPH (C6 to C40) petroleum group			<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
Total:								0.0401 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification
CLP: Note H	Known incomplete entry, should not be used as is

Classification of sample: BH8

✔ **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
BH8	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
7.5%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 7.5% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				3 mg/kg	1.32	3.961 mg/kg	0.000396 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				<0.5 mg/kg	1.142	<0.571 mg/kg	<0.0000571 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15 mg/kg	1.462	21.923 mg/kg	0.00219 %			
		215-160-9	1308-38-9								
4	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	034-002-00-8										
5	copper { dicopper oxide; copper (I) oxide }				10 mg/kg	1.126	11.259 mg/kg	0.00113 %			
	029-002-00-X	215-270-7	1317-39-1								
6	lead { lead chromate }			1	34 mg/kg	1.56	53.034 mg/kg	0.0034 %			
	082-004-00-2	231-846-0	7758-97-6								
7	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				11 mg/kg	2.976	32.739 mg/kg	0.00327 %			
	028-035-00-7	238-766-5	14721-18-7								
9	zinc { zinc chromate }				56 mg/kg	2.774	155.352 mg/kg	0.0155 %			
	024-007-00-3	236-878-9	13530-65-9								
10	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
11	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
12	asbestos				100 mg/kg		100 mg/kg	0.01 %			
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
			77536-68-6 77536-67-5 12001-29-5							
13	pH				7.02 pH		7.02 pH	7.02 pH		
			PH							
14	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
15	resorcinol; 1,3-benzenediol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-010-00-1	203-585-2	108-46-3							
16	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]							
17	3,4-xylene; [1] 2,5-xylene; [2] 2,4-xylene; [3] 2,3-xylene; [4] 2,6-xylene; [5] xylene; [6] 2,4(or 2,5)-xylene [7]				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
18	Phenols, C9-11; Distillate Phenols			H, J, M	<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	648-127-00-6	293-435-2	91079-47-9							
19	benzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
20	toluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
21	ethylbenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
22	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
23	naphthalene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
24	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8							
25	acenaphthene				0.02 mg/kg		0.02 mg/kg	0.000002 %		
		201-469-6	83-32-9							
26	fluorene				0.02 mg/kg		0.02 mg/kg	0.000002 %		
		201-695-5	86-73-7							
27	phenanthrene				0.36 mg/kg		0.36 mg/kg	0.000036 %		
		201-581-5	85-01-8							
28	anthracene				0.08 mg/kg		0.08 mg/kg	0.000008 %		
		204-371-1	120-12-7							
29	fluoranthene				0.61 mg/kg		0.61 mg/kg	0.000061 %		
		205-912-4	206-44-0							
30	pyrene				0.5 mg/kg		0.5 mg/kg	0.00005 %		
		204-927-3	129-00-0							
31	benzo[a]anthracene				0.26 mg/kg		0.26 mg/kg	0.000026 %		
	601-033-00-9	200-280-6	56-55-3							
32	chrysene				0.29 mg/kg		0.29 mg/kg	0.000029 %		
	601-048-00-0	205-923-4	218-01-9							
33	benzo[b]fluoranthene				0.27 mg/kg		0.27 mg/kg	0.000027 %		
	601-034-00-4	205-911-9	205-99-2							
34	benzo[k]fluoranthene				0.1 mg/kg		0.1 mg/kg	0.00001 %		
	601-036-00-5	205-916-6	207-08-9							
35	benzo[a]pyrene; benzo[def]chrysene				0.21 mg/kg		0.21 mg/kg	0.000021 %		
	601-032-00-3	200-028-5	50-32-8							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
36	indeno[123-cd]pyrene	205-893-2	193-39-5		0.13 mg/kg		0.13 mg/kg	0.000013 %		
37	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
38	benzo[ghi]perylene	205-883-8	191-24-2		0.1 mg/kg		0.1 mg/kg	0.00001 %		
39	TPH (C6 to C40) petroleum group		TPH		23 mg/kg		23 mg/kg	0.0023 %		
40	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
41	aldrin (ISO)	602-048-00-3	206-215-8	309-00-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
42	dieldrin (ISO)	602-049-00-9	200-484-5	60-57-1	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
43	atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine	613-068-00-7	217-617-8	1912-24-9	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
44	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate	015-019-00-X	200-547-7	62-73-7	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
45	hexachlorobenzene	602-065-00-6	204-273-9	118-74-1	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
Total:								0.0395 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification
CLP: Note H	Known incomplete entry, should not be used as is

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and ≤ 75°C"

Force this Hazardous property to non hazardous because No liquid phase encountered.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0023%)

Classification of sample: BH8[2]

 **Non Hazardous Waste**
Classified as **17 05 04**
in the List of Waste

Sample details

Sample Name:	LoW Code:
BH8[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
5.00 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
14.4%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 14.4% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				3 mg/kg	1.32	3.961 mg/kg	0.000396 %			
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				0.6 mg/kg	1.142	0.685 mg/kg	0.0000685 %			
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				25 mg/kg	1.462	36.539 mg/kg	0.00365 %			
		215-160-9	1308-38-9								
4	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1 mg/kg	2.554	<2.554 mg/kg	<0.000255 %			<LOD
	034-002-00-8										
5	copper { dicopper oxide; copper (I) oxide }				12 mg/kg	1.126	13.511 mg/kg	0.00135 %			
	029-002-00-X	215-270-7	1317-39-1								
6	lead { lead chromate }			1	18 mg/kg	1.56	28.077 mg/kg	0.0018 %			
	082-004-00-2	231-846-0	7758-97-6								
7	mercury { mercury dichloride }				<0.17 mg/kg	1.353	<0.23 mg/kg	<0.000023 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				81 mg/kg	2.976	241.077 mg/kg	0.0241 %			
	028-035-00-7	238-766-5	14721-18-7								
9	zinc { zinc chromate }				56 mg/kg	2.774	155.352 mg/kg	0.0155 %			
	024-007-00-3	236-878-9	13530-65-9								
10	boron { diboron trioxide; boric oxide }				2.6 mg/kg	3.22	8.372 mg/kg	0.000837 %			
	005-008-00-8	215-125-8	1303-86-2								
11	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
	006-007-00-5										
12	pH				8.29 pH		8.29 pH	8.29 pH			
			PH								
13	phenol				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %			<LOD
	604-001-00-2	203-632-7	108-95-2								

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
14	resorcinol; 1,3-benzenediol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-010-00-1	203-585-2	108-46-3									
15	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-004-00-9	203-577-9 [1]	108-39-4 [1]									
		202-423-8 [2]	95-48-7 [2]									
		203-398-6 [3]	106-44-5 [3]									
		215-293-2 [4]	1319-77-3 [4]									
16	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	604-006-00-X	202-439-5 [1]	95-65-8 [1] 95-87-4									
		202-461-5 [2]	[2] 105-67-9 [3]									
		203-321-6 [3]	526-75-0 [4]									
		208-395-3 [4]	576-26-1 [5]									
		209-400-1 [5]	1300-71-6 [6]									
		215-089-3 [6]	71975-58-1 [7]									
		276-245-4 [7]										
17	Phenols, C9-11; Distillate Phenols			H, J, M	<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
	648-127-00-6	293-435-2	91079-47-9									
18	benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
19	toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
20	ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
21	o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1]	95-47-6 [1]									
		203-396-5 [2]	106-42-3 [2]									
		203-576-3 [3]	108-38-3 [3]									
		215-535-7 [4]	1330-20-7 [4]									
22	naphthalene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
23	acenaphthylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8									
24	acenaphthene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-469-6	83-32-9									
25	fluorene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		201-695-5	86-73-7									
26	phenanthrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		201-581-5	85-01-8									
27	anthracene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		204-371-1	120-12-7									
28	fluoranthene				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
		205-912-4	206-44-0									
29	pyrene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
		204-927-3	129-00-0									
30	benzo[a]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
31	chrysene				<0.06	mg/kg		<0.06	mg/kg	<0.000006 %		<LOD
	601-048-00-0	205-923-4	218-01-9									
32	benzo[b]fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
	601-034-00-4	205-911-9	205-99-2									
33	benzo[k]fluoranthene				<0.07	mg/kg		<0.07	mg/kg	<0.000007 %		<LOD
	601-036-00-5	205-916-6	207-08-9									
34	benzo[a]pyrene; benzo[def]chrysene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-032-00-3	200-028-5	50-32-8									
35	indeno[123-cd]pyrene				<0.03	mg/kg		<0.03	mg/kg	<0.000003 %		<LOD
		205-893-2	193-39-5									
36	dibenz[a,h]anthracene				<0.04	mg/kg		<0.04	mg/kg	<0.000004 %		<LOD
	601-041-00-2	200-181-8	53-70-3									
37	benzo[ghi]perylene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		205-883-8	191-24-2									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
38	●	TPH (C6 to C40) petroleum group			<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
Total:								0.0494 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
•	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification
CLP: Note H	Known incomplete entry, should not be used as is

Appendix A: Classifier defined and non CLP determinands

■ **chromium(III) oxide (worst case)** (EC Number: 215-160-9, CAS Number: 1308-38-9)

Conversion factor: 1.462

Description/Comments: Data from C&L Inventory Database

Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>

Data source date: 17 Jul 2015

Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Repr. 1B H360FD , Skin Sens. 1 H317 , Resp. Sens. 1 H334 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302 , Acute Tox. 4 H332

■ **salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex**

CLP index number: 006-007-00-5

Description/Comments: Conversion factor based on a worst case compound: sodium cyanide

Data source: Commission Regulation (EC) No 790/2009 - 1st Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP1)

Additional Hazard Statement(s): EUH032 >= 0.2 %

Reason for additional Hazards Statement(s):

14 Dec 2015 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

■ **pH** (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

■ **ethylbenzene** (EC Number: 202-849-4, CAS Number: 100-41-4)

CLP index number: 601-023-00-4

Description/Comments:

Data source: Commission Regulation (EU) No 605/2014 – 6th Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP6)

Additional Hazard Statement(s): Carc. 2 H351

Reason for additional Hazards Statement(s):

03 Jun 2015 - Carc. 2 H351 hazard statement sourced from: IARC Group 2B (77) 2000

■ **acenaphthylene** (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 1 H310 , Acute Tox. 1 H330 , Acute Tox. 4 H302

■ **acenaphthene** (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Aquatic Chronic 2 H411 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

■ **fluorene** (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400

■ **phenanthrene** (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Skin Irrit. 2 H315 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Carc. 2 H351 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Acute Tox. 4 H302

• **anthracene** (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Skin Sens. 1 H317 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

• **fluoranthene** (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Acute Tox. 4 H302

• **pyrene** (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 21 Aug 2015

Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315

• **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 06 Aug 2015

Hazard Statements: Carc. 2 H351

• **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 23 Jul 2015

Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400

• **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: Aquatic Chronic 2 H411 , Repr. 2 H361d , Carc. 1B H350 , Muta. 1B H340 , STOT RE 2 H373 , Asp. Tox. 1 H304 , Flam. Liq. 3 H226

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Reasonable case CLP species based on hazard statements/molecular weight and most common (stable) oxide of arsenic. Industrial sources include: smelting; main precursor to other arsenic compounds.

cadmium {cadmium oxide}

Reasonable case CLP species based on hazard statements/molecular weight, very low solubility in water. Industrial sources include: electroplating baths, electrodes for storage batteries, catalysts, ceramic glazes, phosphors, pigments and nematocides. Worst case compounds in CLP: cadmium sulphate, chloride, fluoride & iodide not expected as either very soluble and/or compound's industrial usage not related to site history.

chromium in chromium(III) compounds {chromium(III) oxide (worst case)}

Reasonable case species based on hazard statements/molecular weight. Industrial sources include: tanning, pigment in paint, inks and glass.

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case. Pigment cadmium sulphoselenide not likely to be present in this soil. No evidence for the other CLP entries: sodium selenite, nickel II selenite and nickel selenide, to be present in this soil.

copper {dicopper oxide; copper (I) oxide}

Reasonable case CLP species based on hazard statements/molecular weight and insolubility in water. Industrial sources include: oxidised copper metal, brake pads, pigments, antifouling paints, fungicide. Worst case copper sulphate is very soluble and likely to have been leached away if ever present and/or not enough soluble sulphate detected.

lead {lead chromate}

Worst case CLP species based on hazard statements/molecular weight.

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight.

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight.

zinc {zinc chromate}

Worst case CLP species based on hazard statements/molecular weight.

boron {diboron trioxide; boric oxide}

Reasonable case CLP species based on hazard statements/ molecular weight, physical form and low solubility. Industrial sources include: fluxing agent for glass/enamels; additive for fibre optics, borosilicate glass (edit as required)

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Harmonised group entry used as most reasonable case as complex cyanides and those specified elsewhere in the annex are not likely to be present in this soil: [Note conversion factor based on a worst case compound: sodium cyanide].

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.1, May 2018**

HazWasteOnline Classification Engine Version: 2020.224.4427.8663 (11 Aug 2020)

HazWasteOnline Database: 2020.224.4427.8663 (11 Aug 2020)

This classification utilises the following guidance and legislation:

WM3 v1.1 - Waste Classification - 1st Edition v1.1 - May 2018

CLP Regulation - Regulation 1272/2008/EC of 16 December 2008

1st ATP - Regulation 790/2009/EC of 10 August 2009

2nd ATP - Regulation 286/2011/EC of 10 March 2011

3rd ATP - Regulation 618/2012/EU of 10 July 2012

4th ATP - Regulation 487/2013/EU of 8 May 2013

Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013

5th ATP - Regulation 944/2013/EU of 2 October 2013

6th ATP - Regulation 605/2014/EU of 5 June 2014

WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014

Revised List of Wastes 2014 - Decision 2014/955/EU of 18 December 2014

7th ATP - Regulation 2015/1221/EU of 24 July 2015

8th ATP - Regulation (EU) 2016/918 of 19 May 2016

9th ATP - Regulation (EU) 2016/1179 of 19 July 2016

10th ATP - Regulation (EU) 2017/776 of 4 May 2017

HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017

13th ATP - Regulation (EU) 2018/1480 of 4 October 2018

14th ATP - Regulation (EU) 2020/217 of 4 October 2019

POPs Regulation 2004 - Regulation 850/2004/EC of 29 April 2004

1st ATP to POPs Regulation - Regulation 756/2010/EU of 24 August 2010

2nd ATP to POPs Regulation - Regulation 757/2010/EU of 24 August 2010