

Analytical Test Report	E26/10854/PSL/26-35944	Tested on Behalf of
Clients Project Reference	PSL26/6587 Cemetery Road, BL0 9PU	Professional Soils Laboratory
Clients Order Number	PSL26/6587	5/7 Hexthorpe Road
Sample(s) Analysed	9	Hexthorpe
Sample(s) received / instructed	13/08/2026 / 13/08/2026	Doncaster
Sample(s) Tested	13/08/2026 to 27/08/2026	
Report issued	27/08/2026	DN4 OAR
Report issue number	1	

Signed



James Gane
Analytical Services Manager

Notes:

General

Please be advised that CTS Chemistry & Microbiology has now become Environmental Chemistry Laboratories (ECT). This change reflects our updated organisational structure and branding; however, all laboratory facilities, instrumentation, methods, and personnel remain the same. As part of this transition, our UKAS accreditation schedule has been updated from No. 4161 to No. 4150. There is no impact on the scope of accredited testing, quality, or any operational processes. We appreciate your continued trust and look forward to supporting you under our new name: Environmental Chemistry Laboratories (ECT). If you have any questions regarding this change, please contact our team.

This report shall not be reproduced except in full

Please refer to Methodologies page for details pertaining to the analytical methods undertaken.

Samples were supplied by customer, results apply to the samples as received.

Samples will be retained for 14 days after issue of this report unless otherwise requested.

Where specification limits are included these are for guidance only. Where a measured value has been highlighted this is not implying acceptance or failure and certainty of measurement values have not been taken into account.

Uncertainty of measurement values are available on request.

Moisture Content was determined in accordance with CTS method statement MS - CL - Sample Prep, oven dried at <30°C.

Moisture Content is reported as a percentage of the dry mass of soil, this calculation is in accordance with BS1377, Part 2, 1990, Clause 3.2

Stone Content was determined in accordance with CTS method statement MS - CL - Sample Prep and refers to the percentage of stones retained on a 10mm BS test sieve.

MCERTS Accreditation only covers the SAND, CLAY and LOAM matrices

Deviating Samples

On receipt samples are compared against our sample holding and handling protocols, where any deviations have been noted these are reported on our deviating sample page (if present)

Accreditation Key

U = UKAS Accreditation, M = MCERTS Accreditation, N = Unaccredited, SC = Subcontracted

E26/10854/PSL/26-35944

PSL26/6587 Cemetery Road, BL0 9PU

Analytical Test Results - ENV Analysis Solids

Lab Reference					860023	860024	860025
Client Sample ID					-	-	-
Client Sample Location					TP1 Top	TP1 Clay	TP2 Top
Client Sample Type					-	-	-
Client Sample Number					-	-	-
Supplier / Source					-	-	-
Client Material					-	-	-
Depth - Top (m)					-	-	-
Depth - Bottom (m)					-	-	-
Date of Sampling					-	-	-
Time of Sampling					-	-	-
Sample Matrix					Clay	Clay	Clay
Determinant	Code	Units	LOD	Accreditation			
Arsenic	ICPMETS	mg/kg	10	M	< 10	< 10	18
Boron (Water Soluble)	WSBORONS	mg/kg	2.5	N	< 2.5	< 2.5	< 2.5
Cadmium	ICPMETS	mg/kg	0.2	M	1.1	1.2	1.4
Chromium (Total)	ICPMETS	mg/kg	1	U	10	11	15
Copper	ICPMETS	mg/kg	2	M	24	25	38
Lead	ICPMETS	mg/kg	1.5	M	40	17	110
Mercury	ICPMETS	mg/kg	2.5	U	< 2.5	< 2.5	< 2.5
Nickel	ICPMETS	mg/kg	1	M	16	22	21
Selenium	ICPMETS	mg/kg	8	N	< 8.0	< 8.0	< 8.0
Zinc	ICPMETS	mg/kg	2	M	62	49	150
Total Phenols	SKALARPHS	mg/kg	1	M	< 1.0	< 1.0	< 1.0
Cyanide (Total)	SKALARCNS	mg/kg	1	M	< 1.0	< 1.0	< 1.0
Cyanide (Free)	SKALARCNS	mg/kg	1	N	< 1.0	< 1.0	< 1.0
Acid Soluble Sulphate	ASSO4S	%	0.01	N	0.05	0.01	0.04
pH	PHS	pH units	1	M	5.8	6.9	6.1
Water Soluble Sulphate (as SO4)	ANIONSS	mg/L	10	N	61	16	< 10
Sulphide	SULPHIDES	mg/kg	5	N	6	< 5	8
Total Sulphur Content (as S)	1377TS-ELT	%	0.01	U	0.03	0.02	0.04
Thiocyanate	ANIONSS	mg/kg	5	N	< 5.0	< 5.0	< 5.0
SOM	TOCS	%	0.86	U	3.5	1.5	4.7
Acenaphthene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	0.30
Acenaphthylene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Anthracene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	0.45
Benzo[a]anthracene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	0.20
Benzo[a]pyrene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	0.51
Benzo[b]fluoranthene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	0.42
Benzo[ghi]perylene	SUBPAHS	mg/kg	0.05	SCN	0.07	< 0.05	0.53
Benzo[k]fluoranthene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	0.20
Chrysene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	0.53
Dibenzo[a,h]anthracene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Fluoranthene	SUBPAHS	mg/kg	0.05	SCN	0.08	< 0.05	1.60
Fluorene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	0.24
Indeno[1,2,3,-cd]pyrene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	0.24

E26/10854/PSL/26-35944

PSL26/6587 Cemetery Road, BL0 9PU

Analytical Test Results - ENV Analysis Solids

Lab Reference					860026	860027	860028
Client Sample ID					-	-	-
Client Sample Location					TP2 Clay	TP3 S	TP3 MG
Client Sample Type					-	-	-
Client Sample Number					-	-	-
Supplier / Source					-	-	-
Client Material					-	-	-
Depth - Top (m)					-	-	-
Depth - Bottom (m)					-	-	-
Date of Sampling					-	-	-
Time of Sampling					-	-	-
Sample Matrix					Sand	Sand	Other
Determinant	Code	Units	LOD	Accreditation			
Arsenic	ICPMETS	mg/kg	10	M	< 10	< 10	16
Boron (Water Soluble)	WSBORONS	mg/kg	2.5	N	< 2.5	< 2.5	< 2.5
Cadmium	ICPMETS	mg/kg	0.2	M	1.1	1.3	1.4
Chromium (Total)	ICPMETS	mg/kg	1	U	5.9	13	31
Copper	ICPMETS	mg/kg	2	M	24	26	61
Lead	ICPMETS	mg/kg	1.5	M	15	19	120
Mercury	ICPMETS	mg/kg	2.5	U	< 2.5	< 2.5	< 2.5
Nickel	ICPMETS	mg/kg	1	M	16	23	49
Selenium	ICPMETS	mg/kg	8	N	< 8.0	< 8.0	< 8.0
Zinc	ICPMETS	mg/kg	2	M	55	61	92
Total Phenols	SKALARPHS	mg/kg	1	M	< 1.0	< 1.0	< 1.0
Cyanide (Total)	SKALARCNS	mg/kg	1	M	< 1.0	< 1.0	< 1.0
Cyanide (Free)	SKALARCNS	mg/kg	1	N	< 1.0	< 1.0	< 1.0
Acid Soluble Sulphate	ASSO4S	%	0.01	N	0.02	0.02	0.05
pH	PHS	pH units	1	M	6.9	8.0	8.3
Water Soluble Sulphate (as SO4)	ANIONSS	mg/L	10	N	13	< 10	63
Sulphide	SULPHIDES	mg/kg	5	N	6	< 5	69
Total Sulphur Content (as S)	1377TS-ELT	%	0.01	U	0.02	0.02	0.26
Thiocyanate	ANIONSS	mg/kg	5	N	< 5.0	< 5.0	< 5.0
SOM	TOCS	%	0.86	U	1.8	1.8	17
Acenaphthene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Acenaphthylene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Anthracene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Benzo[a]anthracene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Benzo[a]pyrene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Benzo[b]fluoranthene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Benzo[ghi]perylene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Benzo[k]fluoranthene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	0.06
Chrysene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Dibenzo[a,h]anthracene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Fluoranthene	SUBPAHS	mg/kg	0.05	SCN	0.06	< 0.05	< 0.05
Fluorene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Indeno[1,2,3-cd]pyrene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05

E26/10854/PSL/26-35944

PSL26/6587 Cemetery Road, BLO 9PU

Analytical Test Results - ENV Analysis Solids

Lab Reference					860029	860030	860031
Client Sample ID					-	-	-
Client Sample Location					TP4 Made	TP4 Sand	TP5 Sand
Client Sample Type					-	-	-
Client Sample Number					-	-	-
Supplier / Source					-	-	-
Client Material					-	-	-
Depth - Top (m)					-	-	-
Depth - Bottom (m)					-	-	-
Date of Sampling					-	-	-
Time of Sampling					-	-	-
Sample Matrix					Other	Sand	Sand
Determinant	Code	Units	LOD	Accreditation			
Arsenic	ICPMETS	mg/kg	10	M	56	< 10	< 10
Boron (Water Soluble)	WSBORONS	mg/kg	2.5	N	< 2.5	< 2.5	< 2.5
Cadmium	ICPMETS	mg/kg	0.2	M	3.0	1.2	1.4
Chromium (Total)	ICPMETS	mg/kg	1	U	33	6.7	11
Copper	ICPMETS	mg/kg	2	M	120	31	32
Lead	ICPMETS	mg/kg	1.5	M	110	18	22
Mercury	ICPMETS	mg/kg	2.5	U	< 2.5	< 2.5	< 2.5
Nickel	ICPMETS	mg/kg	1	M	83	20	29
Selenium	ICPMETS	mg/kg	8	N	< 8.0	< 8.0	< 8.0
Zinc	ICPMETS	mg/kg	2	M	150	57	77
Total Phenols	SKALARPHS	mg/kg	1	M	< 1.0	< 1.0	< 1.0
Cyanide (Total)	SKALARCNS	mg/kg	1	M	< 1.0	< 1.0	< 1.0
Cyanide (Free)	SKALARCNS	mg/kg	1	N	< 1.0	< 1.0	< 1.0
Acid Soluble Sulphate	ASSO4S	%	0.01	N	0.07	0.01	0.01
pH	PHS	pH units	1	M	8.3	7.5	6.9
Water Soluble Sulphate (as SO4)	ANIONSS	mg/L	10	N	54	< 10	20
Sulphide	SULPHIDES	mg/kg	5	N	110	16	6
Total Sulphur Content (as S)	1377TS-ELT	%	0.01	U	0.25	0.02	0.02
Thiocyanate	ANIONSS	mg/kg	5	N	< 5.0	< 5.0	< 5.0
SOM	TOCS	%	0.86	U	30	1.1	2.1
Acenaphthene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Acenaphthylene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Anthracene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Benzo[a]anthracene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Benzo[a]pyrene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Benzo[b]fluoranthene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Benzo[ghi]perylene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Benzo[k]fluoranthene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Chrysene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Dibenzo[a,h]anthracene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Fluoranthene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Fluorene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Indeno[1,2,3,-cd]pyrene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05

E26/10854/PSL/26-35944

PSL26/6587 Cemetery Road, BLO 9PU

Analytical Test Results - ENV Analysis Solids

Lab Reference					860023	860024	860025
Client Sample ID					-	-	-
Client Sample Location					TP1 Top	TP1 Clay	TP2 Top
Client Sample Type					-	-	-
Client Sample Number					-	-	-
Supplier / Source					-	-	-
Client Material					-	-	-
Depth - Top (m)					-	-	-
Depth - Bottom (m)					-	-	-
Date of Sampling					-	-	-
Time of Sampling					-	-	-
Sample Matrix					Clay	Clay	Clay
Determinant	Code	Units	LOD	Accreditation			
Naphthalene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	0.13
Phenanthrene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	1.90
Pyrene	SUBPAHS	mg/kg	0.05	SCN	0.07	< 0.05	1.20
Total PAH (Sum of USEPA 16)	SUBPAHS	mg/kg	0.05	SCN	0.23	< 0.05	8.50

E26/10854/PSL/26-35944

PSL26/6587 Cemetery Road, BL0 9PU

Analytical Test Results - ENV Analysis Solids

Lab Reference					860026	860027	860028
Client Sample ID					-	-	-
Client Sample Location					TP2 Clay	TP3 S	TP3 MG
Client Sample Type					-	-	-
Client Sample Number					-	-	-
Supplier / Source					-	-	-
Client Material					-	-	-
Depth - Top (m)					-	-	-
Depth - Bottom (m)					-	-	-
Date of Sampling					-	-	-
Time of Sampling					-	-	-
Sample Matrix					Sand	Sand	Other
Determinant	Code	Units	LOD	Accreditation			
Naphthalene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Phenanthrene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Pyrene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Total PAH (Sum of USEPA 16)	SUBPAHS	mg/kg	0.05	SCN	0.06	< 0.05	0.06

E26/10854/PSL/26-35944

PSL26/6587 Cemetery Road, BLO 9PU

Analytical Test Results - ENV Analysis Solids

Lab Reference					860029	860030	860031
Client Sample ID					-	-	-
Client Sample Location					TP4 Made	TP4 Sand	TP5 Sand
Client Sample Type					-	-	-
Client Sample Number					-	-	-
Supplier / Source					-	-	-
Client Material					-	-	-
Depth - Top (m)					-	-	-
Depth - Bottom (m)					-	-	-
Date of Sampling					-	-	-
Time of Sampling					-	-	-
Sample Matrix					Other	Sand	Sand
Determinant	Code	Units	LOD	Accreditation			
Naphthalene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Phenanthrene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Pyrene	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05
Total PAH (Sum of USEPA 16)	SUBPAHS	mg/kg	0.05	SCN	< 0.05	< 0.05	< 0.05

E26/10854/PSL/26-35944

PSL26/6587 Cemetery Road, BL0 9PU

Analytical Test Results - EPHVPHS

Lab Reference					860023	860024	860025
Client Sample ID					-	-	-
Client Sample Location					TP1 Top	TP1 Clay	TP2 Top
Client Sample Type					-	-	-
Client Sample Number					-	-	-
Supplier / Source					-	-	-
Client Material					-	-	-
Depth - Top (m)					-	-	-
Depth - Bottom (m)					-	-	-
Date of Sampling					-	-	-
Time of Sampling					-	-	-
Sample Matrix					Clay	Clay	Clay
Determinant	Code	Units	LOD	Accreditation			
Total TPH (>C10 to C40) [1]	TPHS	mg/kg	15	M	50	19	69
Total TPH (>C10 to C25) [1]	TPHS	mg/kg	15	N	< 15	< 15	22
Total >C5-C10 [7]	VPHS	mg/kg	0.2	M	< 0.20	< 0.20	< 0.20

E26/10854/PSL/26-35944

PSL26/6587 Cemetery Road, BL0 9PU

Analytical Test Results - EPHVPHS

Lab Reference					860026	860027	860028
Client Sample ID					-	-	-
Client Sample Location					TP2 Clay	TP3 S	TP3 MG
Client Sample Type					-	-	-
Client Sample Number					-	-	-
Supplier / Source					-	-	-
Client Material					-	-	-
Depth - Top (m)					-	-	-
Depth - Bottom (m)					-	-	-
Date of Sampling					-	-	-
Time of Sampling					-	-	-
Sample Matrix					Sand	Sand	Other
Determinant	Code	Units	LOD	Accreditation			
Total TPH (>C10 to C40) [1]	TPHS	mg/kg	15	M	21	36	1500
Total TPH (>C10 to C25) [1]	TPHS	mg/kg	15	N	< 15	< 15	230
Total >C5-C10 [7]	VPHS	mg/kg	0.2	M	< 0.20	< 0.20	< 0.20

E26/10854/PSL/26-35944

PSL26/6587 Cemetery Road, BL0 9PU

Analytical Test Results - EPHVPHS

Lab Reference					860029	860030	860031
Client Sample ID					-	-	-
Client Sample Location					TP4 Made	TP4 Sand	TP5 Sand
Client Sample Type					-	-	-
Client Sample Number					-	-	-
Supplier / Source					-	-	-
Client Material					-	-	-
Depth - Top (m)					-	-	-
Depth - Bottom (m)					-	-	-
Date of Sampling					-	-	-
Time of Sampling					-	-	-
Sample Matrix					Other	Sand	Sand
Determinant	Code	Units	LOD	Accreditation			
Total TPH (>C10 to C40) [1]	TPHS	mg/kg	15	M	660	20	< 15
Total TPH (>C10 to C25) [1]	TPHS	mg/kg	15	N	100	< 15	< 15
Total >C5-C10 [7]	VPHS	mg/kg	0.2	M	< 0.20	< 0.20	< 0.20

E26/10854/PSL/26-35944

PSL26/6587 Cemetery Road, BL0 9PU

Sample Descriptions

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Description	Moisture Content (%)	Stone Content (%)	Passing 2mm test sieve (%)
860023	-	TP1 Top	SOIL	-	Brown slightly gravelly silty clay with occasional rootlets	19	14	89
860024	-	TP1 Clay	SOIL	-	Yellow slightly gravelly silt	4.1	3.0	100
860025	-	TP2 Top	SOIL	-	Brown slightly sandy silty clay with occasional rootlets	23	< 0.1	720
860026	-	TP2 Clay	SOIL	-	Brown slightly clayey slightly gravelly silty sand	16	< 0.1	88
860027	-	TP3 S	SOIL	-	Brown slightly clayey slightly gravelly silty sand	8.4	12	87
860028	-	TP3 MG	SOIL	-	Made Ground- greyish brown sandy crushed rock with occasional brick fragments bituminous material	0.2	< 0.1	100
860029	-	TP4 Made	SOIL	-	Made Ground- greyish brown sandy crushed rock with occasional brick fragments bituminous material	4.0	< 0.1	100
860030	-	TP4 Sand	SOIL	-	Brown slightly clayey slightly gravelly silty sand	8.8	< 0.1	51
860031	-	TP5 Sand	SOIL	-	Brown gravelly silty sand	2.5	29	51

E26/10854/PSL/26-35944

PSL26/6587 Cemetery Road, BL0 9PU

Analysis Methodologies - Please refer to sample comments page (if present) for any changes to methods Methods

Site addresses where testing is performed: Leicester - 7-11 Harding Street, Leicester, LE1 4DH Poole - Unit D11, Admiralty Park, Station Road, Holton Heath, Poole, BH16 6HX

Test Code	Test Name / Reference	Sample condition for analysis	Sample Preparation	Test Site	Accredited Matrices	Test Details
1377TS-ELT	BS1377 Total Sulphur Content by HTC	Oven dried	BS1377 : Part 1 : 2016	Leicester	SOIL	Total Sulphur Content testing of Soil in accordance with BS 1377 : Part 3 : 2018 + A1 : 2021 Clause 7.10 (using Eltra CS-800 Analyser)
ANIONSS	MS - CL - Anions by Aquakem (2:1Extract)	Oven dried	Passing 2mm test sieve	Leicester		Determination of Anions (inc Sulphate, chloride etc.) in soils by Aquakem. Analysis is based on a 2:1 water to soil extraction ratio
ASSO4S	MS - CL - Acid Soluble Sulphate	Oven Dried	Passing 2mm test sieve	Leicester		Determination of total sulphate in soils by acid extraction followed by ICP analysis
ICPMETS	MS - CL - ICP Metals	Air dried	Passing 10mm test sieve	Leicester	SOIL	Determination of metals in soils via ICP
PHS	MS - CL - pH in Soils	As received	Passing 10mm test sieve	Leicester	SOIL	Determination of pH in soils using a pH probe (using a 1:3 soil to water extraction)
SAMPLEPREP	MS - CL - Sample Preparation	-	-	Leicester		Preparation of samples (including determination of moisture content) to allow for subsequent analysis
SKALARCNS	MS - CL - Cyanide by Skalar	As received	Passing 10mm test sieve	Leicester	SOIL	Determination of cyanide (total / free / complex) in soil using a Skalar segmented flow analyser
SKALARPHS	MS - CL - Phenols by Skalar	As received	Passing 10mm test sieve	Leicester	SOIL	Determination of total phenols in soil using Skalar segmented flow analyser
SUBPAHS	Subcontract - PAH in Soil	-	-	Subbed		Analysis subcontracted to a UKAS / MCERTS accredited Lab
SULPHIDES	MS - CL - Sulphide in Soils	Air Dried	Passing 10mm test sieve	Leicester		Determination of sulphide in soil via titration
TOCS	MS - CL - TOC Eltra	Air Dried	Passing 10mm test sieve	Leicester	SOIL	Determination of Total Organic Carbon in soils
TPHS	MS - CL - TPH (GC-FID)	As received	Passing 10mm test sieve	Leicester	SOIL	Determination of Total Petroleum Hydrocarbons in soil using GC-FID
VPHS	MS - CL - VPH	As received	Passing 10mm test sieve	Leicester	SOIL	Determination of VPH in soils via Headspace-GC-MS
WSBORONS	MS - CL - WS Boron	Air dried	Passing 10mm test sieve	Leicester		Determination of Water soluble Boron in soils via ICP

E26/10854/PSL/26-35944

PSL26/6587 Cemetery Road, BL0 9PU

Sample Deviations

Deviations are listed below against each sample and associated test method, where deviation(s) are noted it means data may not be representative of the sample at the time of sampling and it is possible that results provided may be compromised.

Observations on receipt

A - No date of sampling provided

W - No time of sampling provided

C - Received in inappropriate container

H - Contains headspace

T - Temperature on receipt exceeds storage temperature

R - Sample(s) received outside standard identified timescales for testing to commence/complete, any result formally classed as deviating will be marked with an X against the applicable test (i.e. RX)

Observations whilst in laboratory

X - Exceeds sampling to extraction or analysis timescales

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Test	Deviations
860023		TP1 Top			MS - CL - Phenols by Skalar	C
860023		TP1 Top			MS - CL - Cyanide by Skalar	C
860023		TP1 Top			MS - CL - TPH (GC-FID)	C
860023		TP1 Top			MS - CL - VPH	C
860024		TP1 Clay			MS - CL - Phenols by Skalar	C
860024		TP1 Clay			MS - CL - Cyanide by Skalar	C
860024		TP1 Clay			MS - CL - TPH (GC-FID)	C
860024		TP1 Clay			MS - CL - VPH	C
860025		TP2 Top			MS - CL - Phenols by Skalar	C
860025		TP2 Top			MS - CL - Cyanide by Skalar	C
860025		TP2 Top			MS - CL - TPH (GC-FID)	C
860025		TP2 Top			MS - CL - VPH	C
860026		TP2 Clay			MS - CL - Phenols by Skalar	C
860026		TP2 Clay			MS - CL - Cyanide by Skalar	C
860026		TP2 Clay			MS - CL - TPH (GC-FID)	C
860026		TP2 Clay			MS - CL - VPH	C
860027		TP3 S			MS - CL - Phenols by Skalar	C
860027		TP3 S			MS - CL - Cyanide by Skalar	C
860027		TP3 S			MS - CL - TPH (GC-FID)	C
860027		TP3 S			MS - CL - VPH	C
860028		TP3 MG			MS - CL - Phenols by Skalar	C
860028		TP3 MG			MS - CL - Cyanide by Skalar	C
860028		TP3 MG			MS - CL - TPH (GC-FID)	C
860028		TP3 MG			MS - CL - VPH	C
860029		TP4 Made			MS - CL - Phenols by Skalar	C

E26/10854/PSL/26-35944

PSL26/6587 Cemetery Road, BL0 9PU

Sample Deviations

Deviations are listed below against each sample and associated test method, where deviation(s) are noted it means data may not be representative of the sample at the time of sampling and it is possible that results provided may be compromised.

Observations on receipt

A - No date of sampling provided

W - No time of sampling provided

C - Received in inappropriate container

H - Contains headspace

T - Temperature on receipt exceeds storage temperature

R - Sample(s) received outside standard identified timescales for testing to commence/complete, any result formally classed as deviating will be marked with an X against the applicable test (i.e. RX)

Observations whilst in laboratory

X - Exceeds sampling to extraction or analysis timescales

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Test	Deviations
860029		TP4 Made			MS - CL - Cyanide by Skalar	C
860029		TP4 Made			MS - CL - TPH (GC-FID)	C
860029		TP4 Made			MS - CL - VPH	C
860030		TP4 Sand			MS - CL - Phenols by Skalar	C
860030		TP4 Sand			MS - CL - Cyanide by Skalar	C
860030		TP4 Sand			MS - CL - TPH (GC-FID)	C
860030		TP4 Sand			MS - CL - VPH	C
860031		TP5 Sand			MS - CL - Phenols by Skalar	C
860031		TP5 Sand			MS - CL - Cyanide by Skalar	C
860031		TP5 Sand			MS - CL - TPH (GC-FID)	C
860031		TP5 Sand			MS - CL - VPH	C

E26/10854/PSL/26-35944

PSL26/6587 Cemetery Road, BL0 9PU

HWOL TPH Acronym Index

Acronym	Description
HS	Headspace Analysis
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent
CU	Clean-up e.g. by florisil, silica gel
1D	GC - Single coil gas chromatography
Total	Aliphatics and Aromatics
AL	Aliphatics Only
AR	Aromatics Only
2D	GC-GC - Double Coil Gas Chromatography
#1	EH_Total but with humics mathematically subtracted
#2	EH_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (except for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry

Key of Codes	
[1]	EH_1D_TOTAL
[2]	EH_CU_1D_TOTAL
[3]	EH_CU+HS_1D_TOTAL
[4]	EH_1D+HS_MS_TOTAL
[5]	HS_MS_1D_AL
[6]	HS_MS_1D_AR
[7]	HS_MS_1D_TOTAL
[8]	EH_CU_1D_AL
[9]	EH_CU_1D_AR
[10]	EH_2D+HS_1D_TOTAL
[11]	EH_CU_2D+HS_1D_TOTAL
[12]	EH_2D_TOTAL
[13]	EH_2D_AL
[14]	EH_2D_AR
[15]	EH_CU_2D_TOTAL
[16]	EH_CU_2D_AL
[17]	EH_CU_2D_AR

E26/10854/PSL/26-35944

PSL26/6587 Cemetery Road, BL0 9PU

Additional Method Notes

Method	Notes
TRL 447 Suite	1. Sample preparation was in accordance with TRL 447 Appendix C. 2. Testing was carried out in accordance with methods 1, 2 and 4 of TRL 447 2001 (Updated 2005). 3. Oxidisable sulphides and total potential sulphate have been calculated in accordance with TRL 447, Appendix C Test 4. Values are reported against a dry mass of sample passing a 2mm test sieve after oven drying, where required material retained on the 2mm test sieve was recombined with the test portion prior to analysis.
BS1377 Acid Soluble Chloride	1. Sample preparation was in accordance with BS 1377 : Part 1 : 2016 2. Testing was in accordance with BS 1377 : Part 3 : 2018 + A1: 2021, acid soluble method. 3. Some information required by BS 1377 has not been reported. This information is available on request.
BS1377 Loss on Ignition	Testing was in accordance with BS 1377: Part 3: 2018 + A1: 2021 Clause 6. Determination of the mass loss on ignition. Some information required by BS1377: 2016: Part 1 has not been reported. This information is available on request.
BS1377 Organic Matter Content	1. Sample preparation was in accordance with BS 1377 : Part 1 : 2016 2. Testing was in accordance with BS 1377: Part 3: 2018 + A1: 2021 Clause 4. 3. The reported % organic content is the average organic matter content present in the soil fraction passing the 2mm test sieve to the nearest 0.1% of the original oven dry mass of soil. 4. Some information required by BS 1377 has not been reported. This information is available on request.
BS1377 pH Value	pH testing was in accordance with BS 1377 : Part 3 : 2018 + A1: 2021 Clause 12
BS1377 Sulphate (acid soluble)	1. Sample preparation was in accordance with BS 1377 : Part 1 : 2016. 2. Sulphate testing of Soil in accordance with BS 1377 : Part 3 : 2018 + A1 : 2021 Clause 7.9 & 7.5. 3. Some information required by BS 1377 has not been reported. This information is available on request.
BS1377 Total Dissolved Solids	Determination of TDS in accordance with BS 1377: Part 3
BS1377 Total Sulphur	1. Sample preparation was in accordance with BS 1377 : Part 1 : 2016.
BS1377 Water Soluble Chloride	1. Sample preparation was in accordance with BS 1377 : Part 1 : 2016 2. Testing was in accordance with BS 1377 : Part 3 : 2018 + A1: 2021, Clause 7.2, water soluble method. 3. Some information required by BS 1377 has not been reported. This information is available on request.
BS1377 Sulphate (water soluble) (ICP-OES)	1. Sample preparation was in accordance with BS 1377 : Part 1 : 2016. 2. Sulphate testing of Soil in accordance with BS 1377 : Part 3 : 2018 + A1 : 2021 Clause 7.3 & 7.5. 3. pH of the water extract was not recorded. 4. Some information required by BS 1377 has not been reported. This information is available on request.
EN1744 Acid Soluble Sulphate	Testing was in accordance with BS EN 1744-1:2009 + A1:2012 clause 12. Analysis subcontracted to a UKAS accredited laboratory
EN1744 Total Sulphur by HTC (Cl. 11.2)	Testing was in accordance with BS EN 1744-1:2009 + A1:2012 clause 11.2 Analysis subcontracted to a UKAS accredited laboratory
EN1744 Total Sulphur (Cl. 11.1)	Testing was in accordance with BS EN 1744-1:2009 + A1:2012 clause 11. Analysis subcontracted to a UKAS accredited laboratory
EN1744 Water Soluble Chloride	Testing was in accordance with BS EN 1744-1:2009 + A1:2012 clause 7 (Reference Method). Analysis subcontracted to a UKAS accredited laboratory

E26/10854/PSL/26-35944

PSL26/6587 Cemetery Road, BL0 9PU

Additional Method Notes

Method	Notes
EN1744 Water Soluble Sulphate	Testing was in accordance with BS EN 1744-1:2009 + A1:2012 clause 10. Analysis subcontracted to a UKAS accredited laboratory
Oxidisable Sulphides Calculation (HTC)	Calculated in accordance with TRL 447 using results determined in accordance with EN1744
Oxidisable Sulphides Calculation (Grav)	Calculated in accordance with TRL 447 using results determined in accordance with EN1744
Total Potential Sulphate (Calc from 1744 Total S)	Derived from the Total sulphur concentration determined in accordance with EN1744.
BS1881 Alkali (Na ₂ O + K ₂ O)	1. Testing was in accordance with BS 1881: Part 124: 2015 Clause 12.3. 2. A concrete density of 2300kg/m³ was used in the calculation of equivalent sodium oxide content per m³ of concrete. 3. Samples received were smaller than required by Clause 4.1 of BS 1881 : Part 124 :2015. 4. Quality control samples are tested with each batch of samples.
BS1881 Calcium Oxide Content (EDTA Titration)	1. Testing was in accordance with BS 1881: Part 124: 2015 Clause 6.4. 2. Cement content (%m/m) has been calculated assuming the presence in the concrete of Ordinary Portland Cement, containing 64.5% by mass of Calcium Oxide. 3. Samples of the original constituents of the mix were not submitted. 4. Samples received were smaller than required by Clause 4.1 of BS 1881 : Part 124 :2015. 5. Quality control samples are tested with each batch of samples. 6. Samples were identified as being part of a batch and therefore the results are from a single analysis only.
BS1881 Cement Content (ICP method)	1. Testing was in accordance with BS 1881: Part 124: 2015 Clause 6.5 by ICP. 2. Cement content has been calculated assuming the presence in the concrete of Ordinary Portland Cement, containing 20.2% and 64.5% by mass of soluble silica and calcium oxide respectively. 3. Samples of the original constituents of the mix were not submitted. 4. Samples received were smaller than required by Clause 4.1 of BS 1881 : Part 124 :2015. 5. Quality control samples are tested with each batch of samples. 6. Samples were identified as being part of a batch
Chloride in Concrete by Aquakem (Acid Soluble)	1. Testing was in accordance with in house method statement MS - CL - Chloride in Hardened concrete by Aquakem. 2. Samples were not passed over the 125micron BS Test Sieve before testing. 3. Quality control samples are tested with each batch of samples.
Moisture Content of Grout Mortar & Concrete	1. Testing was in accordance with in house method statement MS Moisture Content of Grout, Mortar and Concrete
MS - Sulphate in Hardened Concrete by ICP	1. Testing undertaken in accordance with in house method statement MS - Sulphate in hardened concrete by ICP. 2. Samples received were smaller than required by Clause 4.1 of BS 1881 : Part 124 :2015. 3. Quality control samples are tested with each batch of samples.
BS1881 Water Cement Ratio	1. Testing was in accordance with BS 1881: Part 124: 2015+A1:2021. 2. Cement content was determined in accordance with BS 1881: Part 124: 2015+A1:2021 Clause 6.5 by ICP. 3. Samples of the original constituents of the mix was/was not submitted. 4. Original water/cement ratio has been calculated in accordance with BS 1881: Part 124: 2015+A1:2021 Clause 9.6. 5. Samples received were smaller than required by Clause 4.1 of BS 1881 : Part 124 :2015+A1:2021.

E26/10854/PSL/26-35944

PSL26/6587 Cemetery Road, BL0 9PU

Additional Method Notes

Method	Notes
BS4551 Mix Proportion	1. Sample preparation was in accordance with BS4551 2005 + A2:2013 Clause 7. 4.5. 2. Testing was in accordance with BS 4551: Part 2: 2005 + A2:2013 Clause 7.5.3 and 7.5.3.4. 3. Cement content has been calculated assuming the presence in the mix of Ordinary Portland Cement containing 20.2% and 64.5% by mass of soluble silica and calcium oxide respectively.
BS6463-102 Neutralizing Value	Testing was undertaken in accordance with an in house method statement based on BS6463-102
BS3882:2015 Specification for topsoil	Testing was undertaken in accordance with the methodologies within BS3882:2015
BS8601:2013 Specification for subsoil	Testing was undertaken in accordance with the methodologies within BS8601:2013
Depth of Carbonation (BS EN 14630:2006)	1. Testing was carried out in accordance with BS EN 14630:2006 Depth of Carbonation. 2. Testing was carried out in the laboratory. 3. Indicator Solution Used– 1g of Phenolphthalein powder dissolved in a solution of 50ml of Methylated Spirits and 100ml of deionised water
HAC	1. Testing was in accordance with BRE Information Sheet IS 15/74. 2. Contaminated samples may give a false result. 3. Samples taken from extensively carbonated concrete containing Portland Cement may give a false positive result. 4. If conclusive identification of the presence of High Alumina Cement is required this result should be confirmed by a more definitive test.
pH Value of Concrete	1. Testing was in accordance with in house method statement MS – pH Value of Hardened Concrete, Grout and Water from voids
Sub - EN1744 Sulphide	Analysis was in accordance with BS EN 1744-1 : 2009 + A1 : 2012, clause 13 and subcontracted to a UKAS accredited laboratory for this test