Willow Lawn Public Toilet Block – TP1

Willow Lawn – BH1 (Cable Percussive Borehole)

Geo-Integrity, - 07858 367 125 Email:- murraybateman@geo-integrity.co.uk

Willow Lawn – TP2

Woody Bay Public Toilets – TP101

Geo-Integrity, - 07858 367 125 Email:- murraybateman@geo-integrity.co.uk

Woody Bay Public Toilets – TP102

Woody Bay Toilets – BH101

Geo-Integrity, - 07858 367 125 Email:- murraybateman@geo-integrity.co.uk

APPENDIX B

Geo-Integrity, Mob.: - 07858 367 125 Email:- info@geo-integrity.co.uk

www.geo-integrity.co.uk
info@geo-integrity.co.uk
01280 816409

Site	Borehole Number
Willow Lawn and Woody Bay, Ruislip Lido, Ruislip, HA4 7TY	BH1

Machine	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussive Cut Down Method : Cable Percussion	150mm to 5.80m		Hillingdon Council	24-12-14
	Location	**Dates**	**Engineer**	**Sheet**
		21/01/2025-22/01/2025	Lee Ashworth	1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00-1.20	B1					(0.30) 0.30	MADE GROUND Soft dark brown silty slightly gravelly CLAY. Gravel is fine to coarse sub-angular concrete and brick.		
						(1.20)	MADE GROUND Soft brown silty sandy gravelly cobbly CLAY. Gravel is fine to coarse sub-angular brick, coal, concrete with occassional boulder size concrete.		
1.00-1.45	SPT N=8			1,1/2,2,2,2					
1.20-1.65	D1					1.50	LAMBETH GROUP Soft to firm light brown orange grey silty slightly sandy CLAY with bands of orange and grey silt.		
2.00-2.45	SPT N=9			1,1/2,2,2,3		(1.50)			
2.00-2.45	D2					3.00	LAMBETH GROUP Very dense orange brown fine to medium SAND		
3.00-3.45	SPT N=43			5,6/8,10,11,14					
3.00-3.50	D3								
4.00-4.45	SPT N=44			5,6/8,10,12,14		(2.80)			
4.50-5.00	D4								
5.00-5.45	SPT N=48			6,6/9,11,12,16					
5.00-5.50	D5					5.80	Complete at 5.80m		

Remarks
Water added from 3.80m to 5.70m.

Scale (approx)	Logged By
1:50	LA

Figure No.
24-12-14.BH1

GEO INTEGRITY
www.geo-integrity.co.uk
info@geo-integrity.co.uk
01280 816409

Site
Willow Lawn and Woody Bay, Ruislip Lido, Ruislip, HA4 7TY

Borehole Number
BH101

Machine : Cable Percussive Cut Down

Method : Cable Percussion

Casing Diameter
150mm to 6.45m

Ground Level (mOD)

Client
Hillingdon Council

Job Number
24-12-14

Location

Dates
01/01/2025

Engineer
Lee Ashworth

Sheet
1/1

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00-0.50	D1					(0.40)	MADE GROUND Soft dark brown silty slightly gravelly organic CLAY. Gravel is fine to coarse sub-angular brick		
						0.40			
0.50-1.00	D2						LAMBETH GROUP Soft to firm becoming firm to stiff grey orange silty CLAY. Thin bands of orange silt with roots and rootlets		
1.00-1.45	D3								
1.20-1.65	SPT N=7			1,1/1,2,2,2					
1.50-2.00	D4					(2.60)			
2.00-2.45	SPT N=11			1,1/2,2,3,4					
2.00-2.30	D5								
2.30-3.00	D6								
						3.00			
3.00-3.38	SPT 50/225			10,10/14,17,19			LAMBETH GROUP Very weak grey brown orange MUDSTONE		
3.00-3.50	D7								
3.50-4.00	D8								
4.00-4.15	SPT 50/0			12,12/21,29					
4.00-4.50	D9								
4.50-5.00	D10					(3.45)			
5.00-5.15	SPT 50/0			12,13/23,27					
5.00-5.50	D11								
5.50-6.00	D12								
6.00-6.15	SPT 50/0			12,13/26,24					
6.00-6.45	D3								
						6.45	Complete at 6.45m		

Remarks

Scale (approx)
1:50

Logged By
LA

Figure No.
24-12-14.BH101

www.geo-integrity.co.uk
info@geo-integrity.co.uk
01280 816409

Site	Trial Pit Number
Willow Lawn and Woody Bay, Ruislip Lido, Ruislip, HA4 7TY	TP1

Machine : Hand Dug Method : Trial Pit	Dimensions	Ground Level (mOD)	Client	Job Number
			Hillingdon Council	24-12-14
	Location	Dates 21/01/2025	Engineer	Sheet
			Lee Ashworth	1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D				(0.40)	MADE GROUND - Loose dark brown clayey silty sandy GRAVEL. Gravel is fine to coarse subangular flint, concrete, brick and tarmac		
0.50	D				0.40 (0.20)	MADE GROUND - Firm brown orange silty gravelly CLAY. Gravel is fine to coarse subangular brick and concrete with rebar		
0.70-1.00	D				0.60 (0.10) 0.70	LAMBETH GROUP - Soft brown grey silty slightly gravelly CLAY. Gravel is fine to coarse subangular flint		
					(0.30)	LAMBETH GROUP - Firm orange brown grey silty gravelly CLAY with bands of orange and grey silt. Gravel is fine to medium subrounded flint		
					1.00	Complete at 1.00m		

Plan

Remarks

AGS

Scale (approx)	Logged By	Figure No.
1:10	HF	24-12-14.TP1

www.geo-integrity.co.uk
info@geo-integrity.co.uk
01280 816409

Site Willow Lawn and Woody Bay, Ruislip Lido, Ruislip, HA4 7TY			**Trial Pit Number** TP2
Machine : Hand Dug **Method :** Trial Pit	**Dimensions**	**Ground Level (mOD)**	**Client** Hillingdon Council	**Job Number** 24-12-14
	Location	**Dates** 21/01/2025	**Engineer** Lee Ashworth	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.30	D				(0.60)	MADE GROUND - Loose dark brown slightly clayey gravelly SILT. Gravel is fine to coarse subanguler brick, concrete and flint		
					0.60	Complete at 0.60m		

Plan

Remarks

AGS

Scale (approx)	Logged By	Figure No.
1:10	HF	24-12-14.TP2

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info@geo-integrity.co.uk
01280 816409

Site	Trial Pit Number
Willow Lawn and Woody Bay, Ruislip Lido, Ruislip, HA4 7TY	TP101

Machine / Method	Dimensions	Ground Level (mOD)	Client	Job Number
Machine : Hand Dug Method : Trial Pit			Hillingdon Council	24-12-14
	Location	**Dates** 21/01/2025	**Engineer** Lee Ashworth	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00-0.50	D				(0.50)	MADE GROUND - Loose brown friable slightly clayey slightly gravelly organic TOPSOIL		
					0.50			
					(0.20)	MADE GROUND - Loose dark brown slightly clayey sandy gravelly CLAY. Gravel is fine to coarse brick and tarmac		
0.70-1.00	D				0.70			
					(0.30)	LAMBETH GROUP - Soft to firm orange brown grey silty CLAY. with thin horizons of orange silt		
					1.00	Complete at 1.00m		

Plan

Remarks

AGS

Scale (approx)	Logged By	Figure No.
1:10	HF	24-12-14.TP101

www.geo-integrity.co.uk
info@geo-integrity.co.uk
01280 816409

Site	Trial Pit Number
Willow Lawn and Woody Bay, Ruislip Lido, Ruislip, HA4 7TY	TP102

Machine / Method	Dimensions	Ground Level (mOD)	Client	Job Number
Machine : Hand Dug Method : Trial Pit			Hillingdon Council	24-12-14
	Location	**Dates** 21/01/2025	**Engineer** Lee Ashworth	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.00-0.60	D				(0.90)	MADE GROUND - Grass over loose dark brown sandy gravelly SILT. Gravel is brick, tarmac and concrete		
0.90-1.00	D				0.90 (0.10) 1.00	LAMBETH GROUP - Soft to firm light brown grey orange silty CLAY		
						Complete at 1.00m		

Plan

Remarks

AGS

Scale (approx)	Logged By	Figure No.
1:10	HF	24-12-14.TP102

APPENDIX C

Geo-Integrity, Mob.: - 07858 367 125 Email:- info@geo-integrity.co.uk

GroundTech Laboratories

Geotechnical Testing Facility

Slapton Hill Barn, Blakesley Road, Slapton, Towcester, Northants. NN12 8QD

Telephone:- 01327 860947/860060 Email: lab@listersgeotechnics.co.uk

PROJECT INFORMATION		SAMPLE INFORMATION		
Site Location:-	Willow Lawn Ruislip Lido HA4 7TY	**Laboratory Tests Undertaken:-**		
		TEST TYPE	**TEST METHOD**	**TESTED**
		Natural Moisture Contents (MC%)	(BS 1377:Part 2:1990 Clause 3.2)	✓
		Liquid Limits (%)	(BS 1377:Part 2:1990 Clause 4.3)	✓
		Plastic Limits (%)	(BS 1377:Part 2:1990 Clause 5.3)	✓
		Plasticity Index (%)	(BS 1377:Part 2:1990 Clause 5.4)	✓
		Saturated Moisture Content (%)	(BS1377 : Part 2 : 1990, clause 3.3)	
		PSD - Wet Sieving	(BS 1377:Part 2:1990 Clause 9.2)	✓
Client Reference:-	Geo Integrity	Engineering Sample Descriptions	(BS 5930 : Section 6)	
		Passing 425/63 (μm)	-	✓
		Hydrometer	(BS 1377:Part 2:1990 Clause 9.5)	
Date Samples Received:-	31 January 2025	Loss on Ignition (%)	-	
Date Testing Completed:-	11 February 2025	Soil Suctions (kPa)	BRE Digest IP 4/93, 1993	
		Bulk Density (Mg/m^3)	(BS 1377:Part 2:1990 Clause 7.2)	
		Strength Tests	(BS 1377:Part 7:1990 Clause 8 & 9)	
		Soluble Sulphate Content (SO_4g/l)	(BS 1377:Part 3:1990 Clause 5.3)	
		pH value	(BS 1377:Part 3:1990 Clause 9.4)	
		California Bearing Ratios (CBR)	(BS 1377:Part 4:1990 Clause 7)	
		Compaction Tests	(BS 1377:Part 4:1990 Clauses 3.0-3.6)	

The results relate only to the samples tested

Laboratory testing in accord with BS EN ISO/IEC 17025-2000 and Quality Management in accord with ISO 9001

Signed on behalf of GroundTech Laboratories:-_____ Technical Signatory

Quality Assured to ISO 9001

GEOTECHNICAL LABORATORY TEST RESULTS

Report No: 25.01.029

GroundTech Laboratories

Geotechnical Testing Facility

Slapton Hill Barn, Blakesley Road, Slapton, Towcester, Northants. NN12 8QD
Telephone: 01327 860947/860060 Fax: 01327 860430 Email: groundtech@listersgeotechnics.co.uk

Quality Assured to ISO 9001

SAMPLES				CLASSIFICATION TESTS							CLASSIFICATION TESTS							STRENGTH TESTS					CHEMICAL TESTS	
Test Location	Sample Type	Sample Depth -m	Test Type	WC %	LL %	PL %	PI %	Passing 425 µm %	Modified PI %	Class	Passing 63 µm %	WC/ LL	PL+ 2%	Liquidity Index	Loss on Ignition %	Soil Suction kPa	Bulk Density Mg/m³	Test Type	Cell Pressure kN/m²	Deviator Stress kN/m²	Apparent Cohesion kN/m²	ϕ	pH Value	Soluble Sulphate Content SO4 g/l
BH 01	D	1.20	PI/63	42	40	23	17	92	16	CI	79	1.05	25	1.12										
	D	2.00	PI/63	26	40	21	19	96	18	CI	91	0.65	23	0.26										
	D	3.00	PSD																					
	D	4.50	PSD																					
TP 01	D	0.70	PI/63	25	41	21	20	78	16	CI	65	0.61	23	0.20										

Symbols:

U	Undisturbed Sample	R	Remoulded	PI	Plasticity Index	T	Triaxial Undrained	L	100mm specimen
D	Disturbed Sample	63	Passing 63µm	F	Filter Paper Suction Tests	M	Multistage Triaxial	S	38mm specimen
B	Bulk Sample	H	Hydrometer	CC	Continuous Core	HP	Hand Penetrometer		
W	Water Sample	PSD	Wet Sieving			V	Vane Test		

LABORATORY TEST RESULTS

Project Reference
25.01.029

GroundTech Laboratories

Geotechnical Testing Facility

Slapton Hill Barn, Blakesley Road, Slapton, Towcester, Northants. NN12 8QD
Telephone: 01327 860947/860060 Fax: 01327 860430 Email: groundtech@listersgeotechnics.co.uk

Quality Assured ISO 9001

Site: Willow Lawn, Ruislp Lido, HA4 7TY

Test Location: BH 01

Sample Depth: 3.00m -3.45m

Hydrometer No.:

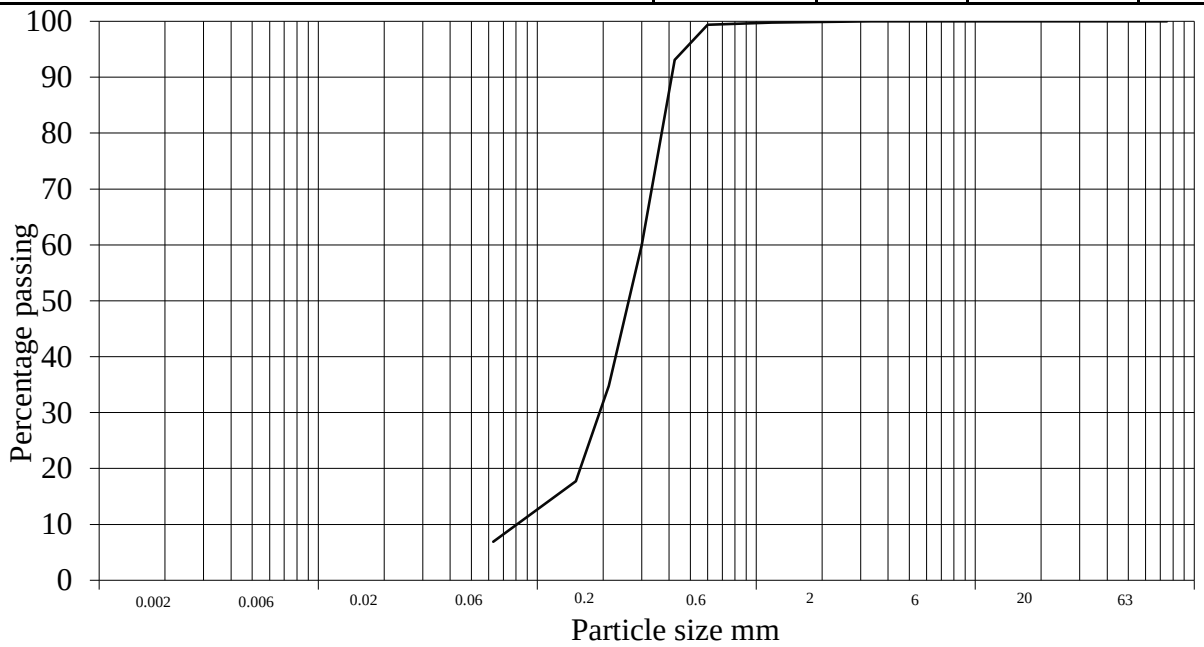
SG Gs:

Water Visc. (N):

Dry Mass of Soil after pretreatment (g):

Test Method: BS 1377 : Part 2 : 1990 : 9.2

BS test sieve	Cumulative Passing - %	Hydrometer Particle Diameter	Cumulative Passing - %
75mm	100.00		
63mm	100.00		
50mm	100.00		
37.5mm	100.00		
26.5mm	100.00		
20mm	100.00		
14mm	100.00		
10mm	100.00		
6.3mm	100.00		
5mm	100.00		
3.5mm	100.00		
2mm	99.90		
1.18mm	99.80		
600µm	99.40		
425µm	93.10		
300µm	60.00		
212µm	34.80		
150µm	17.70		
63µm	6.90		



CLAY	SILT			SAND			GRAVEL			COBBLES
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	
7%				93%			0%			0%

PARTICLE SIZE DISTRIBUTION

Project Reference
25.01.029

GroundTech Laboratories

Geotechnical Testing Facility

Slapton Hill Barn, Blakesley Road, Slapton, Towcester, Northants. NN12 8QD
Telephone: 01327 860947/860060 Fax: 01327 860430 Email: groundtech@listersgeotechnics.co.uk

Quality Assured ISO 9001

Site: Willow Lawn, Ruislp Lido, HA4 7TY

Test Location: BH 01

Sample Depth: 4.50m -5.00m

Hydrometer No.:

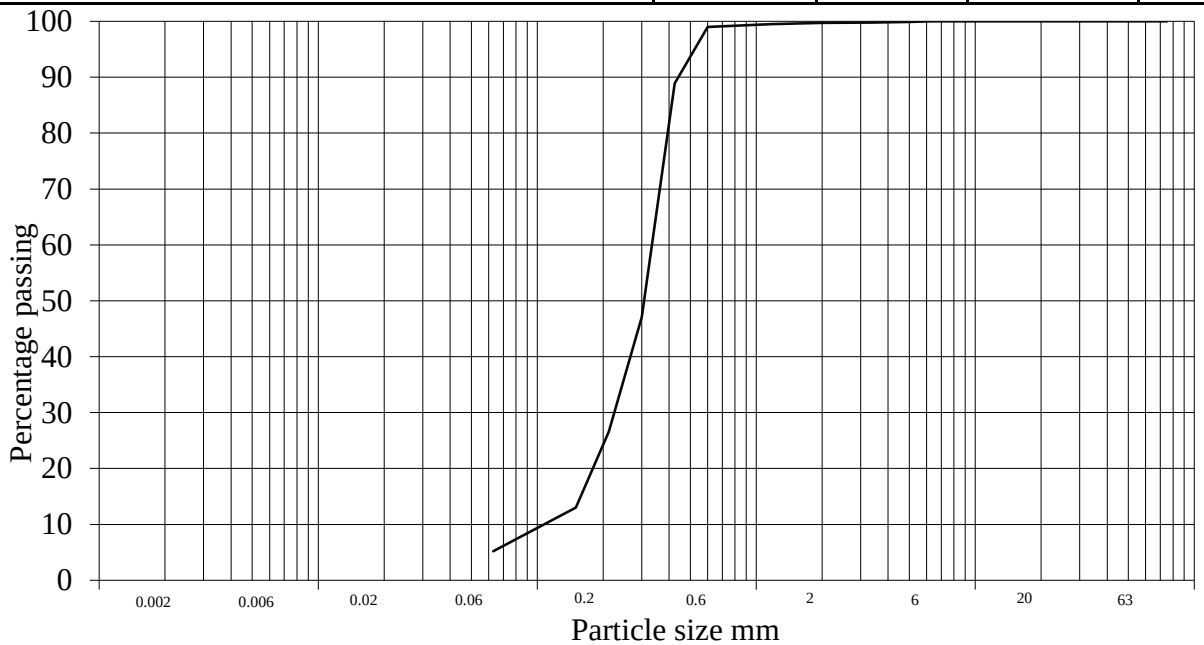
SG Gs:

Water Visc. (N):

Dry Mass of Soil after pretreatment (g):

Test Method: BS 1377 : Part 2 : 1990 : 9.2

BS test sieve	Cumulative Passing - %	Hydrometer Particle Diameter	Cumulative Passing - %
75mm	100.00		
63mm	100.00		
50mm	100.00		
37.5mm	100.00		
26.5mm	100.00		
20mm	100.00		
14mm	100.00		
10mm	100.00		
6.3mm	100.00		
5mm	99.90		
3.5mm	99.80		
2mm	99.70		
1.18mm	99.50		
600µm	99.00		
425µm	88.90		
300µm	47.10		
212µm	26.60		
150µm	13.00		
63µm	5.20		



CLAY	SILT			SAND			GRAVEL			COBBLES
	Fine	Medium	Coarse	Fine	Medium	Coarse	Fine	Medium	Coarse	
5%				95%			0%			0%

PARTICLE SIZE DISTRIBUTION

Project Reference
25.01.029

GroundTech Laboratories

Geotechnical Testing Facility

Slapton Hill Barn, Blakesley Road, Slapton, Towcester, Northants. NN12 8QD

Telephone:- 01327 860947/860060 Email: lab@listersgeotechnics.co.uk

PROJECT INFORMATION		SAMPLE INFORMATION		
Site Location:-	Woody Bay, Ruislip Lido HA4 7TY	**Laboratory Tests Undertaken:-**		
		TEST TYPE	**TEST METHOD**	**TESTED**
		Natural Moisture Contents (MC%)	(BS 1377:Part 2:1990 Clause 3.2)	✓
		Liquid Limits (%)	(BS 1377:Part 2:1990 Clause 4.3)	✓
		Plastic Limits (%)	(BS 1377:Part 2:1990 Clause 5.3)	✓
		Plasticity Index (%)	(BS 1377:Part 2:1990 Clause 5.4)	✓
		Saturated Moisture Content (%)	(BS1377 : Part 2 : 1990, clause 3.3)	
		PSD - Wet Sieving	(BS 1377:Part 2:1990 Clause 9.2)	
Client Reference:-	Geo Integrity	Engineering Sample Descriptions	(BS 5930 : Section 6)	
		Passing 425/63 (μm)	-	✓
		Hydrometer	(BS 1377:Part 2:1990 Clause 9.5)	
Date Samples Received:-	31 January 2025	Loss on Ignition (%)	-	
Date Testing Completed:-	11 February 2025	Soil Suctions (kPa)	BRE Digest IP 4/93, 1993	
		Bulk Density (Mg/m^3)	(BS 1377:Part 2:1990 Clause 7.2)	
		Strength Tests	(BS 1377:Part 7:1990 Clause 8 & 9)	
		Soluble Sulphate Content (SO_4g/l)	(BS 1377:Part 3:1990 Clause 5.3)	
		pH value	(BS 1377:Part 3:1990 Clause 9.4)	
		California Bearing Ratios (CBR)	(BS 1377:Part 4:1990 Clause 7)	
		Compaction Tests	(BS 1377:Part 4:1990 Clauses 3.0-3.6)	

The results relate only to the samples tested

Laboratory testing in accord with BS EN ISO/IEC 17025-2000 and Quality Management in accord with ISO 9001

Signed on behalf of GroundTech Laboratories:-_____ Technical Signatory

Quality Assured to ISO 9001

GEOTECHNICAL LABORATORY TEST RESULTS

Report No: 25.01.030

GroundTech Laboratories

Geotechnical Testing Facility

Slapton Hill Barn, Blakesley Road, Slapton, Towcester, Northants. NN12 8QD
Telephone: 01327 860947/860060 Fax: 01327 860430 Email: groundtech@listersgeotechnics.co.uk

Quality Assured to ISO 9001

SAMPLES				CLASSIFICATION TESTS							CLASSIFICATION TESTS							STRENGTH TESTS					CHEMICAL TESTS	
Test Location	Sample Type	Sample Depth -m	Test Type	WC %	LL %	PL %	PI %	Passing 425 µm %	Modified PI %	Class	Passing 63 µm %	WC/ LL	PL+ 2%	Liquidity Index	Loss on Ignition %	Soil Suction kPa	Bulk Density Mg/m³	Test Type	Cell Pressure kN/m²	Deviator Stress kN/m²	Apparent Cohesion kN/m²	ϕ	pH Value	Soluble Sulphate Content SO4 g/l
BH 101	D	1.00	PI/63	26	63	25	38	100	38	CH	98	0.41	27	0.03										
	D	2.00	PI/63	20	63	24	39	98	38	CH	96	0.32	26	-0.10										
	D	3.50	PI/63	22	63	24	39	98	38	CH	97	0.35	26	-0.05										
	D	4.50	PI/63	24	68	26	42	99	42	CH	98	0.35	28	-0.05										
	D	5.50	PI/63	25	68	28	40	99	40	CH	97	0.37	30	-0.08										

Symbols:

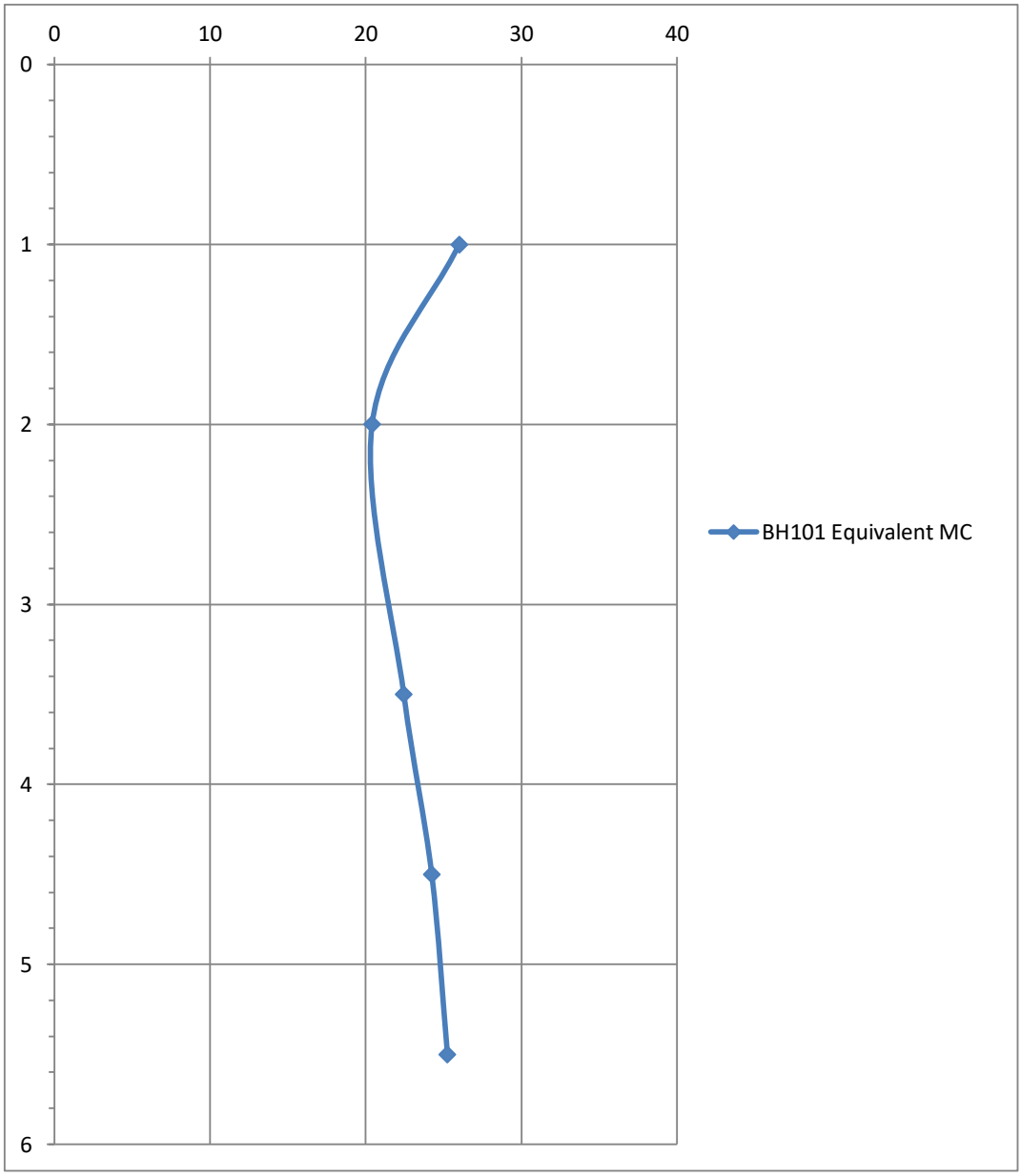
U	Undisturbed Sample	R	Remoulded	PI	Plasticity Index	T	Triaxial Undrained	L	100mm specimen
D	Disturbed Sample	63	Passing 63µm	F	Filter Paper Suction Tests	M	Multistage Triaxial	S	38mm specimen
B	Bulk Sample	H	Hydrometer	CC	Continuous Core	HP	Hand Penetrometer		
W	Water Sample	PSD	Wet Sieving			V	Vane Test		

LABORATORY TEST RESULTS

Project Reference
25.01.030

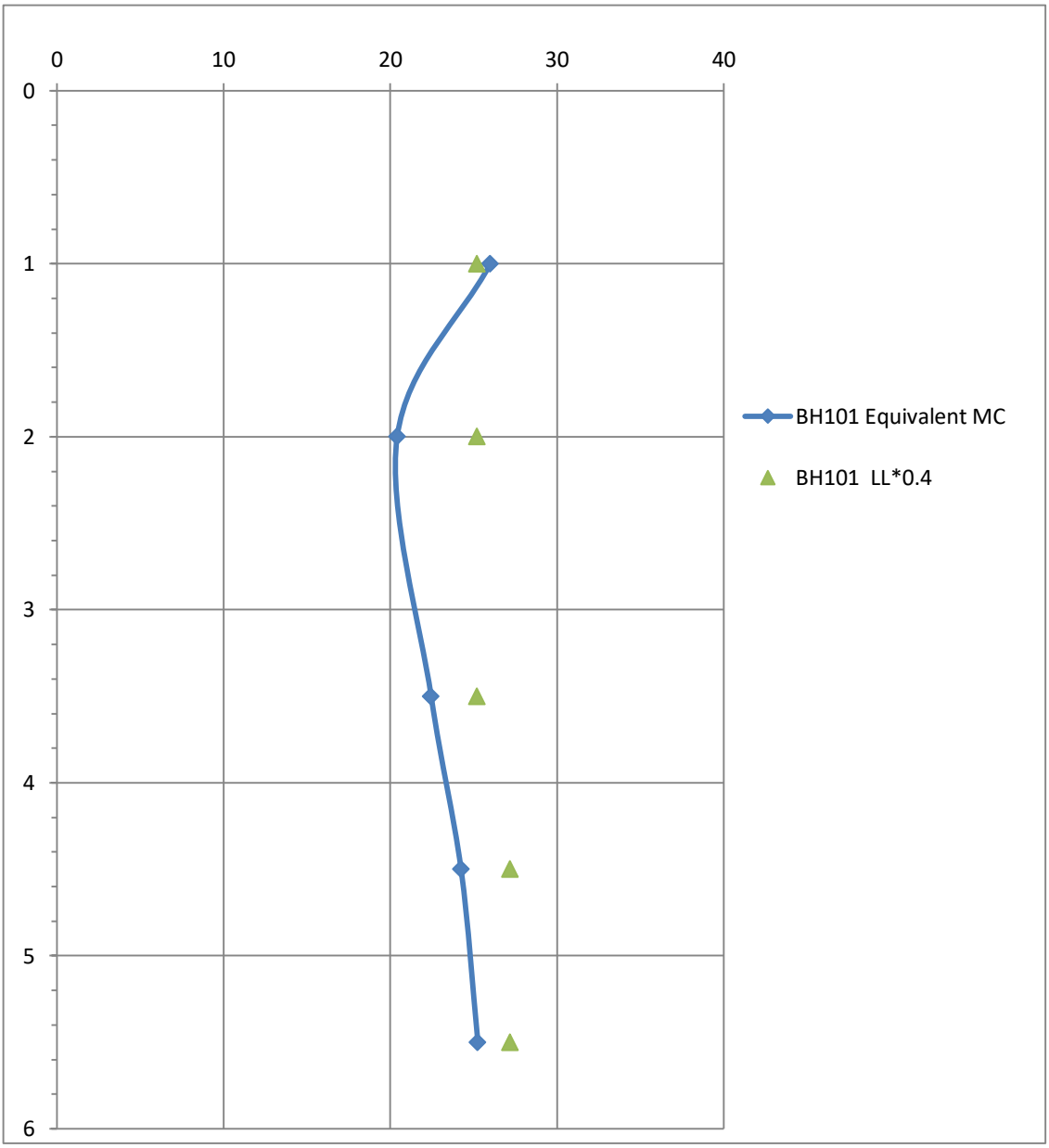
PROJECT NUMBER	,24-12-14
PROJECT NAME	Woody Bay, Ruislip Lido
CLIENT	Hillingdon Borough Council
REPORT DATE	03/03/2025

BH101 EQUIVALENT MOISTURE CONTENT VS. DEPTH



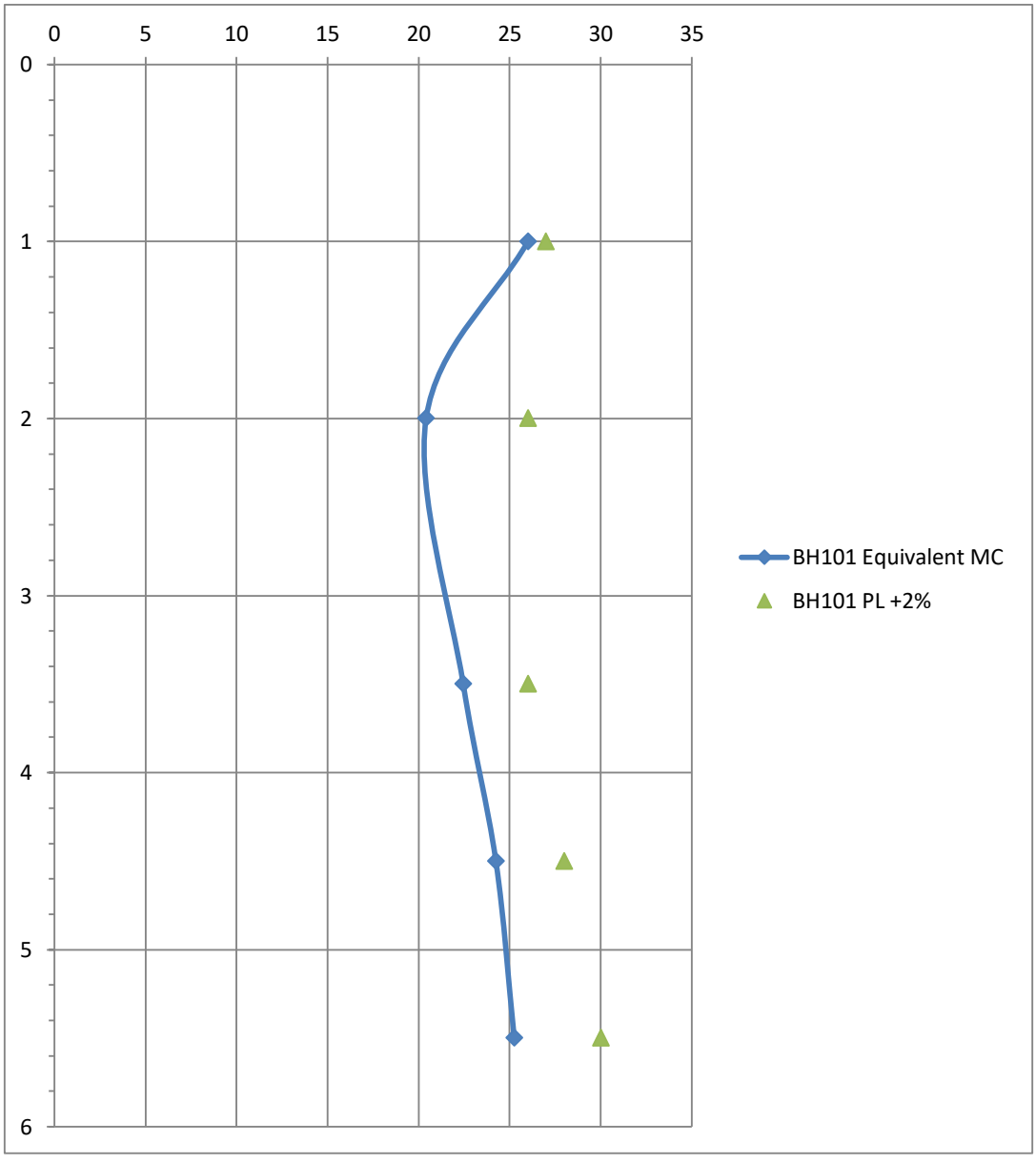
PROJECT NUMBER	,24-12-14
PROJECT NAME	Woody Bay, Ruislip Lido
CLIENT	Hillingdon Borough Council
REPORT DATE	03/03/2025

BH101 MC > LIQUID LIMIT*0.4 VS. DEPTH



PROJECT NUMBER	,24-12-14
PROJECT NAME	Woody Bay, Ruislip Lido
CLIENT	Hillingdon Borough Council
REPORT DATE	03/03/2025

BH101 MC > PLASTIC LIMIT + 2 VS. DEPTH



Geo-Integrity
4 Church Street
Buckingham
MK18 1QE

7 - 11 Harding Street
Leicester
LE1 4DH

Analytical Test Report: L25/00956/GIN - 25-56430

Your Project Reference:	**Willow Lawn, Ruislip Lido, HA4 7TY 24-12-14**		
Your Order Number:	Q24-00626/1	Samples Received / Instructed:	30/01/2025 / 30/01/2025
Report Issue Number:	1	Sample Tested:	30/01 to 14/02/2025
Samples Analysed:	4 sample(s)	Report issued:	14/02/2025

Signed

James Gane
Analytical Services Manager
CTS

Notes:

General

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

Samples will be retained for 14 days after issue of this report with the exception of the asbestos test portion which is held for 6 months unless otherwise requested.

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.

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.

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

Asbestos

Please note: Where futher analaysis is required samples identified as containing asbestos are screened and tested on an as recevied basis. No correction is made for moisture content and other than the asbestos test(s) these results are not covered by our accrediation

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

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

This report shall not be reproduce except in full

UKAS = UKAS Accreditation, MCERTS = MCERTS Accreditation, u = Unaccredited, subUKAS - Subcontracted to a laboratory UKAS accredited for this test, subMCERTS - Subcontracted to a laboratory MCERTS accredited for this test

MCERTS Accreditation only covers the SAND, CLAY and LOAM matrices

UKAS accreditation on waters only covers the Ground water and Surface water matrices

Date of Issue: 21.01.2025

Issued by: J. Gane

Issue No: 4

Rev No: 23

CONSTRUCTION TESTING SOLUTIONS
A PHENNA GROUP COMPANY

7 - 11 Harding Street
Leicester
LE1 4DH

L25/00956/GIN - 25-56430

Project Reference - Willow Lawn, Ruislip Lido, HA4 7TY 24-12-14

Analytical Test Results - Solid

Lab Reference			444381	444382
Client Sample ID			-	-
Client Sample Location			TP1	TP2
Client Sample Type			-	-
Client Sample Number			-	-
Depth - Top (m)			0.50	0.30
Depth - Bottom (m)			0.50	0.30
Date of Sampling			23/01/2025	23/01/2025
Time of Sampling			-	-
Sample Matrix			Clay	Clay
Determinant	**Units**	**Accreditation**		
Arsenic	(mg/kg)	MCERTS	20	14
Cadmium	(mg/kg)	MCERTS	1.3	1.1
Chromium (Total)	(mg/kg)	UKAS	16	14
Copper	(mg/kg)	MCERTS	77	47
Lead	(mg/kg)	MCERTS	560	140
Mercury	(mg/kg)	UKAS	< 2.5	< 2.5
Nickel	(mg/kg)	MCERTS	30	29
Selenium	(mg/kg)	u	< 8.0	< 8.0
Zinc	(mg/kg)	MCERTS	380	170
Chromium (Hexavalent)	(mg/kg)	u	< 1.0	< 1.0
Acenaphthene	(mg/kg)	MCERTS	0.84	11
Acenaphthylene	(mg/kg)	UKAS	3.2	1.3
Anthracene	(mg/kg)	UKAS	5.0	31
Benzo (a) anthracene	(mg/kg)	MCERTS	8.2	40
Benzo (a) pyrene	(mg/kg)	MCERTS	7.3	34
Benzo (b) fluoranthene	(mg/kg)	MCERTS	10	48
Benzo (g, h, i) perylene	(mg/kg)	MCERTS	4.1	21
Benzo (k) fluoranthene	(mg/kg)	MCERTS	3.7	17
Chrysene	(mg/kg)	MCERTS	7.2	37
Dibenzo (a,h) anthracene	(mg/kg)	MCERTS	1.1	6.0
Fluoranthene	(mg/kg)	MCERTS	21	140
Fluorene	(mg/kg)	MCERTS	3.1	9.0
Indeno (1, 2, 3,-cd) pyrene	(mg/kg)	MCERTS	4.4	22
Naphthalene	(mg/kg)	MCERTS	0.79	0.80
Phenanthrene	(mg/kg)	MCERTS	16	130
Pyrene	(mg/kg)	MCERTS	15	110
Total PAH (Sum of USEPA 16)	(mg/kg)	UKAS	110	640
Asbestos	-	UKAS	No asbestos detected	No asbestos detected

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L25/00956/GIN - 25-56430

Project Reference - Willow Lawn, Ruislip Lido, HA4 7TY 24-12-14

Analytical Test Results - Chemical Analysis

Lab Reference			444381	444383	444384
Client Sample ID			-	-	-
Client Sample Location			TP1	BH01	BH01
Client Sample Type			-	-	-
Client Sample Number			-	-	-
Depth - Top (m)			0.50	2.00	4.00
Depth - Bottom (m)			0.50	2.45	4.45
Date of Sampling			23/01/2025	21/01/2025	22/01/2025
Time of Sampling			-	-	-
Sample Matrix			Clay	Clay	Sand
Determinant	**Units**	**Accreditation**			
Water soluble sulphate (as SO_4)	(mg/l)	u	62	77	83
Acid Soluble Sulphate	(%)	u	0.04	0.02	< 0.01
Total Sulphur	(%)	UKAS	0.04	0.01	< 0.01
pH Value	pH Units	MCERTS	7.7	7.8	7.7

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Project Reference - Willow Lawn, Ruislip Lido, HA4 7TY 24-12-14

Analytical Test Results - VPH / EPH

Lab Reference			444381	444382
Client Sample ID			-	-
Client Sample Location			TP1	TP2
Client Sample Type			-	-
Client Sample Number			-	-
Depth - Top (m)			0.50	0.30
Depth - Bottom (m)			0.50	0.30
Date of Sampling			23/01/2025	23/01/2025
Time of Sampling			-	-
Sample Matrix			Clay	Clay
Determinant	**Units**	**Accreditation**		
Benzene	(mg/kg)	MCERTS	< 0.01	< 0.01
Toluene	(mg/kg)	MCERTS	< 0.01	< 0.01
Ethylbenzene	(mg/kg)	MCERTS	< 0.01	< 0.01
m&p Xylene	(mg/kg)	MCERTS	< 0.02	< 0.02
o-Xylene	(mg/kg)	MCERTS	< 0.01	< 0.01
MTBE	(mg/kg)	MCERTS	< 0.01	< 0.01
Total $>C_5$ to C_{40} [EH_2D+HS_1D_Total]	(mg/kg)	MCERTS	120	290
Total TPH $>C_5$ to C_6 [HS_MS_1D_TOTAL]	(mg/kg)	u	< 1.0	< 1.0
Total TPH $>C_6$ to C_7 [HS_MS_1D_TOTAL]	(mg/kg)	u	< 1.0	< 1.0
Total TPH $>C_7$ to C_8 [HS_MS_1D_TOTAL]	(mg/kg)	u	< 1.0	< 1.0
Total TPH $>C_8$ to C_{10} [EH_2D_TOTAL]	(mg/kg)	MCERTS	< 5.0	< 50.0
Total TPH $>C_{10}$ to C_{12} [EH_2D_TOTAL]	(mg/kg)	MCERTS	< 5.0	< 50.0
Total TPH $>C_{12}$ to C_{16} [EH_2D_TOTAL]	(mg/kg)	MCERTS	< 5.0	< 50.0
Total TPH $>C_{16}$ to C_{21} [EH_2D_TOTAL]	(mg/kg)	MCERTS	29	59
Total TPH $>C_{21}$ to C_{35} [EH_2D_TOTAL]	(mg/kg)	MCERTS	76	180
Total TPH $>C_{35}$ to C_{44} [EH_2D_TOTAL]	(mg/kg)	u	13	110

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Project Reference - Willow Lawn, Ruislip Lido, HA4 7TY 24-12-14

Certificate Of Analysis - WAC Suite

Lab Reference	444381
Client Sample ID	-
Client Sample Location	TP1
Client Sample Type	-
Client Sample Number	-
Depth - Top (m)	0.5
Depth - Bottom (m)	0.5
Date of Sampling	23/01/2025
Time of Sampling	-
Sample Description	Made Ground- dark greyish brown gravelly slightly sandy silty clay with occasional concrete organic matter brick fragments
Sample Matrix	Clay
Moisture Content (%)	13
Stone content (%)	37

			Determined Result	Inert Waste Landfill	Stable non reactive hazardous waste in a non hazardous landfill	Hazardous Waste Landfill
Solid Analysis						
Total Organic Carbon	%	MCERTS	3.1	3.0	5.0	6.0
Loss on Ignition	%	UKAS	4.6	-	-	10.0
BTEX	mg/kg	MCERTS	< 0.06	6.00	-	-
PCB's (7 Congeners)	mg/kg	MCERTS	< 0.025	1.00	-	-
Mineral Oil (>C10 to C40) [EH_CU_1D_Tota	mg/kg	u	130	500	-	-
PAH	mg/kg	u	110	100	-	-
pH	units	MCERTS	7.7	-	> 6	-
Eluate Analysis						
Arsenic	mg/kg	UKAS	0.05	0.50	2	25
Barium	mg/kg	UKAS	0.17	20	100	300
Cadmium	mg/kg	UKAS	< 0.0025	0.04	1	5
Chromium (total)	mg/kg	UKAS	0.01	0.5	10	70
Copper	mg/kg	UKAS	0.06	2.0	50	100
Mercury	mg/kg	UKAS	< 0.00050	0.01	0.2	2
Molybdenum	mg/kg	UKAS	0.03	0.5	10.0	30
Nickel	mg/kg	UKAS	< 0.075	0.4	10.0	40
Lead	mg/kg	UKAS	0.06	0.5	10.0	50
Antimony	mg/kg	UKAS	< 0.050	0.06	0.7	5
Selenium	mg/kg	UKAS	< 0.0050	0.1	0.5	7
Zinc	mg/kg	u	< 0.25	4	50	200
Chloride	mg/kg	UKAS	7	800	15000	25000
Fluoride	mg/kg	u	7	10	150	500
Sulphate (as SO,)	mg/kg	UKAS	< 10	1000	20000	50000
Total Dissolved Solids	mg/kg	u	660	4000	60000	100000
Phenol Index	mg/kg	u	< 1.0	1	-	-
Dissolved Organic Carbon	mg/kg	UKAS	40.0	500	800	1000

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Project Reference - Willow Lawn, Ruislip Lido, HA4 7TY 24-12-14

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 (%)
444381	-	TP1	-	-	Made Ground- dark greyish brown gravelly slightly sandy silty clay with occasional concrete organic matter brick fragments	13	37	89
444382	-	TP2	-	-	Made Ground- dark greyish brown gravelly slightly sandy silty clay with frequent concrete slag brick fragments	12	40	-
444383	-	BH01	-	-	Brown slightly gravelly silty clay with rare organic matter	-	-	100
444384	-	BH01	-	-	Light brown slightly gravelly silty sand with rare organic matter	-	-	100

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Sample Comments

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Comments
444381	-	TP1	-	-	VPH/BTEX - Sample taken from container with headspace. PAHAR 1/10 dilution dark extract
444382	-	TP2	-	-	VPH/BTEX - Sample taken from container with headspace. EPH 1/10 Dilution PAHAR 1/10 dilution dark extract
444383	-	BH01	-	-	
444384	-	BH01	-	-	

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Project Reference - Willow Lawn, Ruislip Lido, HA4 7TY 24-12-14

Analysis Methodologies

Test Code	Test Name / Reference	Sample condition for analysis	Sample Preperation	Test Details
ANIONSS	MS - CL - Anions by Aquakem (2:1Extract)	Oven dried	Passing 2mm test sieve	Determination of Anions (inc Sulphate, chloride etc.) in soils by Aquakem. Analysis is based on a 2:1 water to soil extraction ratio
WACMETALS1	MS-CL-Metals in Waters by ICP-MS (WAC)	As received	MS-CL-Soil Leachate Preparation	Determination of dissolved metals in leachates via ICP-MS, expressed as quantity of analyte leached from the original material.
WACDOC	MS - CL - DOC (WAC)	As received	BSEN:12457 Leaching	Determination of dissolved organic carbon in a leachate as part of a WAC test
SKALARHCS	MS - CL - Hexavalent Chromium by Skalar	As received	Passing 10mm test sieve	Determination of hexavalent chromium in soil using Skalar segmented flow analyser
ICPMETS	MS - CL - ICP Metals	Air dried	Passing 10mm test sieve	Determination of metals in soils via ICP
WACPHS	MS - CL - pH in Soils (WAC)	As received	BSEN:12457 Leaching	Determination of pH in soils as part of a WAC test via pH probe
PHS	MS - CL - pH in Soils	As received	Passing 10mm test sieve	Determination of pH in soils using a pH probe (using a 1:3 soil to water extraction)
PCB7S	MS - CL - PCB Soils	As received	Passing 10mm test sieve	Determination of PCB's (7 congeners) in soils via GC-MS
PAHASRDS	MS - CL - PAH (As Received)	As received	Passing 10mm test sieve	Determination of Polyaromatic hydrocarbons in soil via GC-MS
WACANIONS	MS - CL - Anions by Aquakem (WAC)	As received	BSEN:12457 Leaching	Determination of sulphate, chloride and fluoride in a leachate as part of a WAC test using a Aquakem analyser
TDSL	MS-CL-Conductivity in Water(TDS by Calc)	As received	BSEN:12457 Leaching	Determination of total dissolved solids in leachates (by calculation)
ASSO4S	MS - CL - Acid Soluble Sulphate	Oven Dried	Passing 2mm test sieve	Determination of total sulphate in soils by acid extraction followed by ICP analysis
WACTOCS	MS - CL - TOC Eltra (WAC)	Air dried	Passing 10mm test sieve	Determination of Total Organic Carbon in soil as part of a WAC test
TPHSC	MS - CL - TPH (GC-FID) Scrubbed	As received	Passing 10mm test sieve	Determination of Total Petroleum Hydrocarbons in soil using GC-FID. Sample is subjected to a fluorocil cleanup (scrubbing stage) prior to analysis
WACSKALAR	MS - CL - Phenols by Skalar (WAC)	As received	BSEN:12457 Leaching	Determination of Total Phenols within leachate as part of a WAC test using a Skalar Segmented flow analyser
GCXGCS	MS - CL - TPH & EPH by GCXGC	As received	Passing 10mm test sieve	Determination of TPH and EPH in soils via GCxGC-FID
CWGS	Calculation from VPH-S and EPH-S	As received	Passing 10mm test sieve	Determination of TPH CWG (Volatile Petroleum Hydrocarbons and Extractable Petroleum Hydrocarbons) in soils via Headspace-GC-MS and GC-GC-FID respectively
VPHS	MS - CL - VPH	As received	Passing 10mm test sieve	Determination of VPH in soils via Headspace-GC-MS
ASB	MS - AS - Asbestos	-	-	Fibre identification is in accordance with in house documented methods which are based on the procedure documented in the HSE Document HSG 248 "Asbestos: The analysts guide for sampling, analysis and clearance procedures"
SAMPLEPREP	MS - CL - Sample Preparation	-	-	Preparation of samples (including determination of moisture content) to allow for subsequent analysis
LEACH-SS-P	MS-CL-Soil Leachate Preparation (SS)	As Received	All crushed to pass 4mm test sieve	Preparation of single stage soil leachates in accordance with MS-CL-Soil Leachate Preparation
1377LOI	BS1377 LoI	Oven dried	Passing 2mm test sieve	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.
1377TS-ELT	BS1377 Total Sulphur Content by HTC	Oven dried	BS1377 : Part 1 : 2016	Total Sulphur Content testing of Soil in accordance with BS 1377 : Part 3 : 2018 + A1 : 2021 Clause 7.10 (using Eltra CS-800 Analyser)

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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 for water sample
C - Received in inappropriate container
H - Contains headspace
T - Temperature on receipt exceeds storage temperature
R - Sample(s) received with less than 96 hours 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
444381	-	TP1	-	-	MS - CL - pH in Soils	RX
444381	-	TP1	-	-	MS - CL - pH in Soils (WAC)	RX
444381	-	TP1	-	-	MS - CL - TPH & EPH by GCXGC	X
444381	-	TP1	-	-	MS - CL - VPH	RX
444382	-	TP2	-	-	MS - CL - TPH & EPH by GCXGC	X
444382	-	TP2	-	-	MS - CL - VPH	RX
444383	-	BH01	-	-	MS - CL - pH in Soils	RX
444384	-	BH01	-	-	MS - CL - pH in Soils	RX

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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 mathmatically subtracted
#2	EH_Total but with fatty acids mathmatically subtracted
_	Operator - underscore to separate acronyms (except for +)
+	Operator to indicate cumlative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry

Geo-Integrity
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Buckingham
MK18 1QE

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Analytical Test Report: L25/00957/GIN - 25-56432

Your Project Reference:	**Woody Bay, Ruislip Lido, HA4 7TY 24-12-14**		
Your Order Number:	Q24-00626/1	Samples Received / Instructed:	30/01/2025 / 30/01/2025
Report Issue Number:	1	Sample Tested:	30/01 to 14/02/2025
Samples Analysed:	4 sample(s)	Report issued:	14/02/2025

Signed

James Gane
Analytical Services Manager
CTS

Notes:

General

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

Samples will be retained for 14 days after issue of this report with the exception of the asbestos test portion which is held for 6 months unless otherwise requested.

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.

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.

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

Asbestos

Please note: Where futher analaysis is required samples identified as containing asbestos are screened and tested on an as recevied basis. No correction is made for moisture content and other than the asbestos test(s) these results are not covered by our accrediation

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation

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

This report shall not be reproduce except in full

UKAS = UKAS Accreditation, MCERTS = MCERTS Accreditation, u = Unaccredited, subUKAS - Subcontracted to a laboratory UKAS accredited for this test, subMCERTS - Subcontracted to a laboratory MCERTS accredited for this test

MCERTS Accreditation only covers the SAND, CLAY and LOAM matrices

UKAS accreditation on waters only covers the Ground water and Surface water matrices

Date of Issue: 21.01.2025

Issued by: J. Gane

Issue No: 4

Rev No: 23

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L25/00957/GIN - 25-56432

Project Reference - Woody Bay, Ruislip Lido, HA4 7TY 24-12-14

Analytical Test Results - Solid

Lab Reference			444392	444393
Client Sample ID			-	-
Client Sample Location			TP102	TP101
Client Sample Type			-	-
Client Sample Number			-	-
Depth - Top (m)			0.00	0.00
Depth - Bottom (m)			0.60	0.50
Date of Sampling			23/01/2025	22/01/2025
Time of Sampling			-	-
Sample Matrix			Sand	Sand
Determinant	**Units**	**Accreditation**		
Arsenic	(mg/kg)	MCERTS	25	14
Cadmium	(mg/kg)	MCERTS	1.3	0.9
Chromium (Total)	(mg/kg)	UKAS	17	9.1
Copper	(mg/kg)	MCERTS	140	84
Lead	(mg/kg)	MCERTS	460	340
Mercury	(mg/kg)	UKAS	< 2.5	< 2.5
Nickel	(mg/kg)	MCERTS	36	21
Selenium	(mg/kg)	u	< 8.0	< 8.0
Zinc	(mg/kg)	MCERTS	290	150
Chromium (Hexavalent)	(mg/kg)	u	< 1.0	< 1.0
Acenaphthene	(mg/kg)	MCERTS	< 0.20	< 0.02
Acenaphthylene	(mg/kg)	UKAS	< 0.20	0.03
Anthracene	(mg/kg)	UKAS	0.44	0.04
Benzo (a) anthracene	(mg/kg)	MCERTS	1.5	0.14
Benzo (a) pyrene	(mg/kg)	MCERTS	1.5	0.17
Benzo (b) fluoranthene	(mg/kg)	MCERTS	1.9	0.25
Benzo (g, h, i) perylene	(mg/kg)	MCERTS	0.94	0.13
Benzo (k) fluoranthene	(mg/kg)	MCERTS	0.73	0.08
Chrysene	(mg/kg)	MCERTS	1.5	0.17
Dibenzo (a,h) anthracene	(mg/kg)	MCERTS	0.28	0.04
Fluoranthene	(mg/kg)	MCERTS	3.1	0.28
Fluorene	(mg/kg)	MCERTS	< 0.20	< 0.02
Indeno (1, 2, 3,-cd) pyrene	(mg/kg)	MCERTS	0.88	0.11
Naphthalene	(mg/kg)	MCERTS	< 0.20	< 0.02
Phenanthrene	(mg/kg)	MCERTS	1.2	0.12
Pyrene	(mg/kg)	MCERTS	2.7	0.25
Total PAH (Sum of USEPA 16)	(mg/kg)	UKAS	18	1.9
Asbestos	-	UKAS	No asbestos detected	No asbestos detected

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Project Reference - Woody Bay, Ruislip Lido, HA4 7TY 24-12-14

Analytical Test Results - Chemical Analysis

Lab Reference			444394	444395
Client Sample ID			-	-
Client Sample Location			BH101	BH101
Client Sample Type			-	-
Client Sample Number			-	-
Depth - Top (m)			0.50	1.50
Depth - Bottom (m)			1.00	2.00
Date of Sampling			22/01/2025	23/01/2025
Time of Sampling			-	-
Sample Matrix			Clay	Clay
Determinant	**Units**	**Accreditation**		
Water soluble sulphate (as SO_4)	(mg/l)	u	85	360
Acid Soluble Sulphate	(%)	u	0.05	0.12
Total Sulphur	(%)	UKAS	0.01	0.03
pH Value	pH Units	MCERTS	5.1	6.1

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Project Reference - Woody Bay, Ruislip Lido, HA4 7TY 24-12-14

Analytical Test Results - VPH / EPH

Lab Reference			444392	444393
Client Sample ID			-	-
Client Sample Location			TP102	TP101
Client Sample Type			-	-
Client Sample Number			-	-
Depth - Top (m)			0.00	0.00
Depth - Bottom (m)			0.60	0.50
Date of Sampling			23/01/2025	22/01/2025
Time of Sampling			-	-
Sample Matrix			Sand	Sand
Determinant	**Units**	**Accreditation**		
Benzene	(mg/kg)	MCERTS	< 0.01	< 0.01
Toluene	(mg/kg)	MCERTS	< 0.01	< 0.01
Ethylbenzene	(mg/kg)	MCERTS	< 0.01	< 0.01
m&p Xylene	(mg/kg)	MCERTS	< 0.02	< 0.02
o-Xylene	(mg/kg)	MCERTS	< 0.01	< 0.01
MTBE	(mg/kg)	MCERTS	< 0.01	< 0.01
Total $>C_5$ to C_{40} [EH_2D+HS_1D_Total]	(mg/kg)	MCERTS	110	34
Total TPH $>C_5$ to C_6 [HS_MS_1D_TOTAL]	(mg/kg)	u	< 1.0	< 1.0
Total TPH $>C_6$ to C_7 [HS_MS_1D_TOTAL]	(mg/kg)	u	< 1.0	< 1.0
Total TPH $>C_7$ to C_8 [HS_MS_1D_TOTAL]	(mg/kg)	u	< 1.0	< 1.0
Total TPH $>C_8$ to C_{10} [EH_2D_TOTAL]	(mg/kg)	MCERTS	< 5.0	< 5.0
Total TPH $>C_{10}$ to C_{12} [EH_2D_TOTAL]	(mg/kg)	MCERTS	< 5.0	< 5.0
Total TPH $>C_{12}$ to C_{16} [EH_2D_TOTAL]	(mg/kg)	MCERTS	< 5.0	< 5.0
Total TPH $>C_{16}$ to C_{21} [EH_2D_TOTAL]	(mg/kg)	MCERTS	22	< 5.0
Total TPH $>C_{21}$ to C_{35} [EH_2D_TOTAL]	(mg/kg)	MCERTS	74	26
Total TPH $>C_{35}$ to C_{44} [EH_2D_TOTAL]	(mg/kg)	u	86	30

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L25/00957/GIN - 25-56432

Project Reference - Woody Bay, Ruislip Lido, HA4 7TY 24-12-14

Certificate Of Analysis - WAC Suite

Lab Reference	444392
Client Sample ID	-
Client Sample Location	TP102
Client Sample Type	-
Client Sample Number	-
Depth - Top (m)	0
Depth - Bottom (m)	0.6
Date of Sampling	23/01/2025
Time of Sampling	-
Sample Description	Made Ground- dark greyish brown gravelly clayey silty sand with occasional brick fragments concrete organic matter
Sample Matrix	Sand
Moisture Content (%)	17
Stone content (%)	12

			Determined Result	Inert Waste Landfill	Stable non reactive hazardous waste in a non hazardous landfill	Hazardous Waste Landfill
Solid Analysis						
Total Organic Carbon	%	MCERTS	6.7	3.0	5.0	6.0
Loss on Ignition	%	UKAS	5.6	-	-	10.0
BTEX	mg/kg	MCERTS	< 0.06	6.00	-	-
PCB's (7 Congeners)	mg/kg	MCERTS	< 0.025	1.00	-	-
Mineral Oil (>C10 to C40) [EH_CU_1D_Tota	mg/kg	u	220	500	-	-
PAH	mg/kg	u	18	100	-	-
pH	units	MCERTS	7.8	-	> 6	-
Eluate Analysis						
Arsenic	mg/kg	UKAS	0.08	0.50	2	25
Barium	mg/kg	UKAS	0.12	20	100	300
Cadmium	mg/kg	UKAS	< 0.0025	0.04	1	5
Chromium (total)	mg/kg	UKAS	0.08	0.5	10	70
Copper	mg/kg	UKAS	0.15	2.0	50	100
Mercury	mg/kg	UKAS	< 0.00050	0.01	0.2	2
Molybdenum	mg/kg	UKAS	0.07	0.5	10.0	30
Nickel	mg/kg	UKAS	< 0.075	0.4	10.0	40
Lead	mg/kg	UKAS	0.06	0.5	10.0	50
Antimony	mg/kg	UKAS	< 0.050	0.06	0.7	5
Selenium	mg/kg	UKAS	< 0.0050	0.1	0.5	7
Zinc	mg/kg	u	< 0.25	4	50	200
Chloride	mg/kg	UKAS	5	800	15000	25000
Fluoride	mg/kg	u	7	10	150	500
Sulphate (as SO,)	mg/kg	UKAS	< 10	1000	20000	50000
Total Dissolved Solids	mg/kg	u	700	4000	60000	100000
Phenol Index	mg/kg	u	< 1.0	1	-	-
Dissolved Organic Carbon	mg/kg	UKAS	48.0	500	800	1000

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L25/00957/GIN - 25-56432

Project Reference - Woody Bay, Ruislip Lido, HA4 7TY 24-12-14

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 (%)
444392	-	TP102	-	-	Made Ground- dark greyish brown gravelly clayey silty sand with occasional brick fragments concrete organic matter	17	12	87
444393	-	TP101	-	-	Dark greyish brown slightly gravelly clayey silty sand with rare organic matter	21	8.9	-
444394	-	BH101	-	-	Greyish light brown slightly gravelly silty clay	-	-	100
444395	-	BH101	-	-	Greyish light brown slightly gravelly silty clay with occasional organic matter	-	-	100

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L25/00957/GIN - 25-56432

Project Reference - Woody Bay, Ruislip Lido, HA4 7TY 24-12-14

Sample Comments

Lab Reference	Client Sample ID	Client Sample Location	Client Sample Type	Client Sample Number	Comments
444392	-	TP102	-	-	VPH/BTEX - Sample taken from container with headspace. PAHAR 1/10 dilution dark extract
444393	-	TP101	-	-	VPH/BTEX - Sample taken from container with headspace.
444394	-	BH101	-	-	
444395	-	BH101	-	-	

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Project Reference - Woody Bay, Ruislip Lido, HA4 7TY 24-12-14

Analysis Methodologies

Test Code	Test Name / Reference	Sample condition for analysis	Sample Preperation	Test Details
ANIONSS	MS - CL - Anions by Aquakem (2:1Extract)	Oven dried	Passing 2mm test sieve	Determination of Anions (inc Sulphate, chloride etc.) in soils by Aquakem. Analysis is based on a 2:1 water to soil extraction ratio
WACMETALS1	MS-CL-Metals in Waters by ICP-MS (WAC)	As received	MS-CL-Soil Leachate Preparation	Determination of dissolved metals in leachates via ICP-MS, expressed as quantity of analyte leached from the original material.
WACDOC	MS - CL - DOC (WAC)	As received	BSEN:12457 Leaching	Determination of dissolved organic carbon in a leachate as part of a WAC test
SKALARHCS	MS - CL - Hexavalent Chromium by Skalar	As received	Passing 10mm test sieve	Determination of hexavalent chromium in soil using Skalar segmented flow analyser
ICPMETS	MS - CL - ICP Metals	Air dried	Passing 10mm test sieve	Determination of metals in soils via ICP
WACPHS	MS - CL - pH in Soils (WAC)	As received	BSEN:12457 Leaching	Determination of pH in soils as part of a WAC test via pH probe
PHS	MS - CL - pH in Soils	As received	Passing 10mm test sieve	Determination of pH in soils using a pH probe (using a 1:3 soil to water extraction)
PCB7S	MS - CL - PCB Soils	As received	Passing 10mm test sieve	Determination of PCB's (7 congeners) in soils via GC-MS
PAHASRDS	MS - CL - PAH (As Received)	As received	Passing 10mm test sieve	Determination of Polyaromatic hydrocarbons in soil via GC-MS
WACANIONS	MS - CL - Anions by Aquakem (WAC)	As received	BSEN:12457 Leaching	Determination of sulphate, chloride and fluoride in a leachate as part of a WAC test using a Aquakem analyser
TDSL	MS-CL-Conductivity in Water(TDS by Calc)	As received	BSEN:12457 Leaching	Determination of total dissolved solids in leachates (by calculation)
ASSO4S	MS - CL - Acid Soluble Sulphate	Oven Dried	Passing 2mm test sieve	Determination of total sulphate in soils by acid extraction followed by ICP analysis
WACTOCS	MS - CL - TOC Eltra (WAC)	Air dried	Passing 10mm test sieve	Determination of Total Organic Carbon in soil as part of a WAC test
TPHSC	MS - CL - TPH (GC-FID) Scrubbed	As received	Passing 10mm test sieve	Determination of Total Petroleum Hydrocarbons in soil using GC-FID. Sample is subjected to a fluorocil cleanup (scrubbing stage) prior to analysis
WACSKALAR	MS - CL - Phenols by Skalar (WAC)	As received	BSEN:12457 Leaching	Determination of Total Phenols within leachate as part of a WAC test using a Skalar Segmented flow analyser
GCXGCS	MS - CL - TPH & EPH by GCXGC	As received	Passing 10mm test sieve	Determination of TPH and EPH in soils via GCxGC-FID
CWGS	Calculation from VPH-S and EPH-S	As received	Passing 10mm test sieve	Determination of TPH CWG (Volatile Petroleum Hydrocarbons and Extractable Petroleum Hydrocarbons) in soils via Headspace-GC-MS and GC-GC-FID respectively
VPHS	MS - CL - VPH	As received	Passing 10mm test sieve	Determination of VPH in soils via Headspace-GC-MS
ASB	MS - AS - Asbestos	-	-	Fibre identification is in accordance with in house documented methods which are based on the procedure documented in the HSE Document HSG 248 "Asbestos: The analysts guide for sampling, analysis and clearance procedures"
SAMPLEPREP	MS - CL - Sample Preparation	-	-	Preparation of samples (including determination of moisture content) to allow for subsequent analysis
LEACH-SS-P	MS-CL-Soil Leachate Preparation (SS)	As Received	All crushed to pass 4mm test sieve	Preparation of single stage soil leachates in accordance with MS-CL-Soil Leachate Preparation
1377LOI	BS1377 LoI	Oven dried	Passing 2mm test sieve	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.
1377TS-ELT	BS1377 Total Sulphur Content by HTC	Oven dried	BS1377 : Part 1 : 2016	Total Sulphur Content testing of Soil in accordance with BS 1377 : Part 3 : 2018 + A1 : 2021 Clause 7.10 (using Eltra CS-800 Analyser)

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Project Reference - Woody Bay, Ruislip Lido, HA4 7TY 24-12-14

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 for water sample
C - Received in inappropriate container
H - Contains headspace
T - Temperature on receipt exceeds storage temperature
R - Sample(s) received with less than 96 hours 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
444392	-	TP102	-	-	MS - CL - pH in Soils (WAC)	RX
444392	-	TP102	-	-	MS - CL - TPH & EPH by GCXGC	X
444392	-	TP102	-	-	MS - CL - VPH	RX
444393	-	TP101	-	-	MS - CL - PAH (As Received)	RX
444393	-	TP101	-	-	MS - CL - TPH & EPH by GCXGC	RX
444393	-	TP101	-	-	MS - CL - VPH	RX
444394	-	BH101	-	-	MS - CL - pH in Soils	RX
444395	-	BH101	-	-	MS - CL - pH in Soils	RX

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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 mathmatically subtracted
#2	EH_Total but with fatty acids mathmatically subtracted
_	Operator - underscore to separate acronyms (except for +)
+	Operator to indicate cumlative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

a) understand the origin of the waste
b) select the correct List of Waste code(s)
c) confirm that the list of determinands, results and sampling plan are fit for purpose
d) select and justify the chosen metal species (Appendix B)
e) correctly apply moisture correction and other available corrections
f) add the meta data for their user-defined substances (Appendix A)
g) check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.

MK5RA-UVYE3-87I81

Report is invalid if pages are removed.

Job name

Willow Lawn, Ruislip Lido, HA4 7TY

Description/Comments

Project

24-12-14

Site

Willow Lawn, Ruislip Lido, HA4 7TY

Classified by

Name:
Fiona White
Date:
07 Mar 2025 10:11 GMT
Telephone:
01280 816409

Company:
Geo-Integrity Limited
Geo-Integrity
Unit 7
Towcester
NN12 8TA

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification: **CERTIFIED**

Course	Date
Hazardous Waste Classification	05 Oct 2023

Next 3 year Refresher due by Oct 2026

Purpose of classification

7 - Disposal of Waste

Address of the waste

Willow Lawn, Ruislip Lido, HA4 7TY **Post Code** HA4 7TY

SIC for the process giving rise to the waste

41202 Construction of domestic buildings

Description of industry/producer giving rise to the waste

Redevelopment of existing public toilets

Description of the specific process, sub-process and/or activity that created the waste

waste created from excavation for foundations

Description of the waste

Made ground comprising clay silt sand and gravel

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	TP1	0.50	Non Hazardous		3
2	TP2	0.30	Non Hazardous		5

Related documents

#	Name	Description
1	WM3 v1.2 2021 compliant	waste stream template used to create this Job

Report

Created by: Fiona White

Created date: 07 Mar 2025 10:11 GMT

Classification of sample: TP1

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

Sample details

Sample name:
TP1
Sample Depth:
0.50 m
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		20 mg/kg	1.32	22.974 mg/kg	0.0023 %	✓	
2	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.3 mg/kg	1.855	2.098 mg/kg	0.00021 %	✓	
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16 mg/kg	1.462	20.345 mg/kg	0.00203 %	✓	
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		77 mg/kg	3.929	263.207 mg/kg	0.0263 %	✓	
5	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<2.5 mg/kg	1.353	<3.384 mg/kg	<0.000338 %		<**LOD**
6	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		30 mg/kg	2.976	77.681 mg/kg	0.00777 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	560 mg/kg	1.56	759.942 mg/kg	0.0487 %	✓	
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<8 mg/kg	1.405	<11.24 mg/kg	<0.00112 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		380 mg/kg	2.774	917.133 mg/kg	0.0917 %	✓	
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %		<**LOD**
11	TPH (C6 to C40) petroleum group			TPH		120 mg/kg		104.4 mg/kg	0.0104 %	✓	
12	naphthalene	601-052-00-2	202-049-5	91-20-3		0.79 mg/kg		0.687 mg/kg	0.0000687 %	✓	
13	acenaphthylene		205-917-1	208-96-8		3.2 mg/kg		2.784 mg/kg	0.000278 %	✓	
14	acenaphthene		201-469-6	83-32-9		0.84 mg/kg		0.731 mg/kg	0.0000731 %	✓	
15	fluorene		201-695-5	86-73-7		3.1 mg/kg		2.697 mg/kg	0.00027 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		phenanthrene				16	mg/kg		13.92	mg/kg	0.00139 %	✓	
			201-581-5	85-01-8									
17		anthracene				5	mg/kg		4.35	mg/kg	0.000435 %	✓	
			204-371-1	120-12-7									
18		fluoranthene				21	mg/kg		18.27	mg/kg	0.00183 %	✓	
			205-912-4	206-44-0									
19		pyrene				15	mg/kg		13.05	mg/kg	0.00131 %	✓	
			204-927-3	129-00-0									
20		benzo[a]anthracene				8.2	mg/kg		7.134	mg/kg	0.000713 %	✓	
		601-033-00-9	200-280-6	56-55-3									
21		chrysene				7.2	mg/kg		6.264	mg/kg	0.000626 %	✓	
		601-048-00-0	205-923-4	218-01-9									
22		benzo[b]fluoranthene				10	mg/kg		8.7	mg/kg	0.00087 %	✓	
		601-034-00-4	205-911-9	205-99-2									
23		benzo[k]fluoranthene				3.7	mg/kg		3.219	mg/kg	0.000322 %	✓	
		601-036-00-5	205-916-6	207-08-9									
24		benzo[a]pyrene; benzo[def]chrysene				7.3	mg/kg		6.351	mg/kg	0.000635 %	✓	
		601-032-00-3	200-028-5	50-32-8									
25		indeno[123-cd]pyrene				4.4	mg/kg		3.828	mg/kg	0.000383 %	✓	
			205-893-2	193-39-5									
26		dibenz[a,h]anthracene				1.1	mg/kg		0.957	mg/kg	0.0000957 %	✓	
		601-041-00-2	200-181-8	53-70-3									
27		benzo[ghi]perylene				4.1	mg/kg		3.567	mg/kg	0.000357 %	✓	
			205-883-8	191-24-2									
28		PAHs (total)				110	mg/kg		95.7	mg/kg	0.00957 %	✓	
29		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
30		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
31		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
32		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<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]									
										Total:	0.21 %		

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 Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

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 for cumulative determinand results below the threshold of: 500 mg/kg (0.05%) because: Non-flammable, long-chain hydrocarbons and no free phase liquids

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0104%)

Classification of sample: TP2

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

Sample details

Sample name:
TP2
Sample Depth:
0.30 m
Moisture content:
12%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 12% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14 mg/kg	1.32	16.266 mg/kg	0.00163 %	✓	
2	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.1 mg/kg	1.855	1.795 mg/kg	0.00018 %	✓	
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		14 mg/kg	1.462	18.006 mg/kg	0.0018 %	✓	
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		47 mg/kg	3.929	162.506 mg/kg	0.0163 %	✓	
5	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<2.5 mg/kg	1.353	<3.384 mg/kg	<0.000338 %		<**LOD**
6	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		29 mg/kg	2.976	75.954 mg/kg	0.0076 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	140 mg/kg	1.56	192.169 mg/kg	0.0123 %	✓	
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<8 mg/kg	1.405	<11.24 mg/kg	<0.00112 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		170 mg/kg	2.774	415.012 mg/kg	0.0415 %	✓	
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %		<**LOD**
11	TPH (C6 to C40) petroleum group			TPH		290 mg/kg		255.2 mg/kg	0.0255 %	✓	
12	naphthalene	601-052-00-2	202-049-5	91-20-3		0.8 mg/kg		0.704 mg/kg	0.0000704 %	✓	
13	acenaphthylene		205-917-1	208-96-8		1.3 mg/kg		1.144 mg/kg	0.000114 %	✓	
14	acenaphthene		201-469-6	83-32-9		11 mg/kg		9.68 mg/kg	0.000968 %	✓	
15	fluorene		201-695-5	86-73-7		9 mg/kg		7.92 mg/kg	0.000792 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		phenanthrene				130	mg/kg		114.4	mg/kg	0.0114 %	✓	
			201-581-5	85-01-8									
17		anthracene				31	mg/kg		27.28	mg/kg	0.00273 %	✓	
			204-371-1	120-12-7									
18		fluoranthene				140	mg/kg		123.2	mg/kg	0.0123 %	✓	
			205-912-4	206-44-0									
19		pyrene				110	mg/kg		96.8	mg/kg	0.00968 %	✓	
			204-927-3	129-00-0									
20		benzo[a]anthracene				40	mg/kg		35.2	mg/kg	0.00352 %	✓	
		601-033-00-9	200-280-6	56-55-3									
21		chrysene				37	mg/kg		32.56	mg/kg	0.00326 %	✓	
		601-048-00-0	205-923-4	218-01-9									
22		benzo[b]fluoranthene				48	mg/kg		42.24	mg/kg	0.00422 %	✓	
		601-034-00-4	205-911-9	205-99-2									
23		benzo[k]fluoranthene				17	mg/kg		14.96	mg/kg	0.0015 %	✓	
		601-036-00-5	205-916-6	207-08-9									
24		benzo[a]pyrene; benzo[def]chrysene				34	mg/kg		29.92	mg/kg	0.00299 %	✓	
		601-032-00-3	200-028-5	50-32-8									
25		indeno[123-cd]pyrene				22	mg/kg		19.36	mg/kg	0.00194 %	✓	
			205-893-2	193-39-5									
26		dibenz[a,h]anthracene				6	mg/kg		5.28	mg/kg	0.000528 %	✓	
		601-041-00-2	200-181-8	53-70-3									
27		benzo[ghi]perylene				21	mg/kg		18.48	mg/kg	0.00185 %	✓	
			205-883-8	191-24-2									
28		PAHs (total)				640	mg/kg		563.2	mg/kg	0.0563 %	✓	
29		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
30		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
31		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
32		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**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]									
										Total:	0.223 %		

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 Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

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 for cumulative determinand results below the threshold of: 500 mg/kg (0.05%) because: Non-flammable, long-chain hydrocarbons and no free phase liquids

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0255%)

Appendix A: Classifier defined and non GB MCL determinands

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

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

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

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

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

- **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 Acute 1; H400 , Aquatic Chronic 1; H410

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

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

- **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: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **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: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **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 Acute 1; H400 , Aquatic Chronic 1; H410

- **PAHs (total)**

Description/Comments: Worst case scenario combining risk phrases and substance specific thresholds from benzo[a]pyrene (CLP# 601-032-00-3) and benzo[a]anthracene (CLP# 601-033-00-9)
Data source: 2008/1272/EC – Table 3.2 of Annex VI of regulation 1272/2008/EC - Classification, labelling and packaging of substances and mixtures and 2009/790/EC Annex IV – Annex IV of regulation 2009/790/EC - 1st Adaptation to Technical Progress for European Regulation 1272/2008
Data source date: 16 Dec 2008
Hazard Statements: Skin Sens. 1; H317 , Carc. 1B; H350 , Carc. 1B; H350 >= 0.01 % , Muta. 1B; H340 , Aquatic Acute 1; H400 (M=100) , Aquatic Chronic 1; H410 (M=100) , Repr. 1B; H360FD

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

GB MCL index number: 601-023-00-4
Description/Comments:
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

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 sulfate}

Worst Case Species Selected

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

(enter justification for selecting this species)

copper {copper sulphate pentahydrate}

Worst Case Species Selected

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weigh

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight

lead {lead chromate}

Worst Case Species Selected

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

(enter justification for selecting this species)

zinc {zinc chromate}

Worst Case Species Selected

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

(enter justification for selecting this species)

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021
HazWasteOnline Classification Engine Version: 2025.65.6483.11817 (06 Mar 2025)
HazWasteOnline Database: 2025.65.6483.11817 (06 Mar 2025)

This classification utilises the following guidance and legislation:
WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021
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 Waste 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
15th ATP - Regulation (EU) 2020/1182 of 19 May 2020
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020
The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020
GB MCL List - version 1.1 of 09 June 2021
GB MCL List v2.0 - version 2.0 of 20th October 2023
GB MCL List v3.0 - version 3.0 of 11th January 2024
GB MCL List v4.0 - version 4.0 of 2nd March 2024
GB MCL List v5.0 - version 5.0 of 26th June 2024

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

a) understand the origin of the waste
b) select the correct List of Waste code(s)
c) confirm that the list of determinands, results and sampling plan are fit for purpose
d) select and justify the chosen metal species (Appendix B)
e) correctly apply moisture correction and other available corrections
f) add the meta data for their user-defined substances (Appendix A)
g) check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.

VLZWR-CTS5P-FX7PT

Report is invalid if pages are removed.

Job name

Woody Bay, Ruislip Lido, HA4 7TY

Description/Comments

Project

24-12-14

Site

Woody Bay, Ruislip Lido, HA4 7TY

Classified by

Name:
Fiona White
Date:
07 Mar 2025 10:18 GMT
Telephone:
01280 816409

Company:
Geo-Integrity Limited
Geo-Integrity
Unit 7
Towcester
NN12 8TA

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification: **CERTIFIED**

Course	Date
Hazardous Waste Classification	05 Oct 2023

Next 3 year Refresher due by Oct 2026

Purpose of classification

7 - Disposal of Waste

Address of the waste

Woody Bay, Ruislip Lido, HA4 7TY **Post Code** HA4 7TY

SIC for the process giving rise to the waste

41202 Construction of domestic buildings

Description of industry/producer giving rise to the waste

Redevelopment of existing public toilets

Description of the specific process, sub-process and/or activity that created the waste

waste created during the excavation of foundations

Description of the waste

made ground comprising clay silt sand and gravel

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	TP102	0.60	Non Hazardous		3
2	TP101	0.50	Non Hazardous		5

Related documents

#	Name	Description
1	WM3 v1.2 2021 compliant	waste stream template used to create this Job

Report

Created by: Fiona White

Created date: 07 Mar 2025 10:18 GMT

Classification of sample: TP102

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

Sample details

Sample name:
TP102
Sample Depth:
0.60 m
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		25 mg/kg	1.32	27.397 mg/kg	0.00274 %	✓	
2	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		1.3 mg/kg	1.855	2.001 mg/kg	0.0002 %	✓	
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		17 mg/kg	1.462	20.623 mg/kg	0.00206 %	✓	
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		140 mg/kg	3.929	456.556 mg/kg	0.0457 %	✓	
5	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<2.5 mg/kg	1.353	<3.384 mg/kg	<0.000338 %		<LOD
6	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		36 mg/kg	2.976	88.931 mg/kg	0.00889 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	460 mg/kg	1.56	595.537 mg/kg	0.0382 %	✓	
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<8 mg/kg	1.405	<11.24 mg/kg	<0.00112 %		<LOD
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		290 mg/kg	2.774	667.737 mg/kg	0.0668 %	✓	
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %		<LOD
11	TPH (C6 to C40) petroleum group			TPH		110 mg/kg		91.3 mg/kg	0.00913 %	✓	
12	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
13	acenaphthylene		205-917-1	208-96-8		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
14	acenaphthene		201-469-6	83-32-9		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
15	fluorene		201-695-5	86-73-7		<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		phenanthrene				1.2	mg/kg		0.996	mg/kg	0.0000996 %	✓	
			201-581-5	85-01-8									
17		anthracene				0.44	mg/kg		0.365	mg/kg	0.0000365 %	✓	
			204-371-1	120-12-7									
18		fluoranthene				3.1	mg/kg		2.573	mg/kg	0.000257 %	✓	
			205-912-4	206-44-0									
19		pyrene				2.7	mg/kg		2.241	mg/kg	0.000224 %	✓	
			204-927-3	129-00-0									
20		benzo[a]anthracene				1.5	mg/kg		1.245	mg/kg	0.000125 %	✓	
		601-033-00-9	200-280-6	56-55-3									
21		chrysene				1.5	mg/kg		1.245	mg/kg	0.000125 %	✓	
		601-048-00-0	205-923-4	218-01-9									
22		benzo[b]fluoranthene				1.9	mg/kg		1.577	mg/kg	0.000158 %	✓	
		601-034-00-4	205-911-9	205-99-2									
23		benzo[k]fluoranthene				0.73	mg/kg		0.606	mg/kg	0.0000606 %	✓	
		601-036-00-5	205-916-6	207-08-9									
24		benzo[a]pyrene; benzo[def]chrysene				1.5	mg/kg		1.245	mg/kg	0.000125 %	✓	
		601-032-00-3	200-028-5	50-32-8									
25		indeno[123-cd]pyrene				0.88	mg/kg		0.73	mg/kg	0.000073 %	✓	
			205-893-2	193-39-5									
26		dibenz[a,h]anthracene				0.28	mg/kg		0.232	mg/kg	0.0000232 %	✓	
		601-041-00-2	200-181-8	53-70-3									
27		benzo[ghi]perylene				0.94	mg/kg		0.78	mg/kg	0.000078 %	✓	
			205-883-8	191-24-2									
28		PAHs (total)				18	mg/kg		14.94	mg/kg	0.00149 %	✓	
29		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
30		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
31		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
32		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<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]									
										Total:	0.178 %		

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 Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

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 for cumulative determinand results below the threshold of: 500 mg/kg (0.05%) because: Non-flammable, long-chain hydrocarbons, no free phase liquids

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.00913%)

Classification of sample: TP101

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

Sample details

Sample name:
TP101
Sample Depth:
0.50 m
Moisture content:
21%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 21% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14 mg/kg	1.32	14.603 mg/kg	0.00146 %	✓	
2	cadmium { cadmium sulfate }	048-009-00-9	233-331-6	10124-36-4		0.9 mg/kg	1.855	1.319 mg/kg	0.000132 %	✓	
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		9.1 mg/kg	1.462	10.507 mg/kg	0.00105 %	✓	
4	copper { copper sulphate pentahydrate }	029-023-00-4	231-847-6	7758-99-8		84 mg/kg	3.929	260.732 mg/kg	0.0261 %	✓	
5	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<2.5 mg/kg	1.353	<3.384 mg/kg	<0.000338 %		<**LOD**
6	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21 mg/kg	2.976	49.376 mg/kg	0.00494 %	✓	
7	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	340 mg/kg	1.56	418.966 mg/kg	0.0269 %	✓	
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<8 mg/kg	1.405	<11.24 mg/kg	<0.00112 %		<**LOD**
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		150 mg/kg	2.774	328.736 mg/kg	0.0329 %	✓	
10	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1 mg/kg	1.923	<1.923 mg/kg	<0.000192 %		<**LOD**
11	TPH (C6 to C40) petroleum group			TPH		34 mg/kg		26.86 mg/kg	0.00269 %	✓	
12	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<**LOD**
13	acenaphthylene		205-917-1	208-96-8		0.03 mg/kg		0.0237 mg/kg	0.00000237 %	✓	
14	acenaphthene		201-469-6	83-32-9		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<**LOD**
15	fluorene		201-695-5	86-73-7		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
16		phenanthrene				0.12	mg/kg		0.0948	mg/kg	0.00000948 %	✓	
			201-581-5	85-01-8									
17		anthracene				0.04	mg/kg		0.0316	mg/kg	0.00000316 %	✓	
			204-371-1	120-12-7									
18		fluoranthene				0.28	mg/kg		0.221	mg/kg	0.0000221 %	✓	
			205-912-4	206-44-0									
19		pyrene				0.25	mg/kg		0.198	mg/kg	0.0000198 %	✓	
			204-927-3	129-00-0									
20		benzo[a]anthracene				0.14	mg/kg		0.111	mg/kg	0.0000111 %	✓	
		601-033-00-9	200-280-6	56-55-3									
21		chrysene				0.17	mg/kg		0.134	mg/kg	0.0000134 %	✓	
		601-048-00-0	205-923-4	218-01-9									
22		benzo[b]fluoranthene				0.25	mg/kg		0.198	mg/kg	0.0000198 %	✓	
		601-034-00-4	205-911-9	205-99-2									
23		benzo[k]fluoranthene				0.08	mg/kg		0.0632	mg/kg	0.00000632 %	✓	
		601-036-00-5	205-916-6	207-08-9									
24		benzo[a]pyrene; benzo[def]chrysene				0.17	mg/kg		0.134	mg/kg	0.0000134 %	✓	
		601-032-00-3	200-028-5	50-32-8									
25		indeno[123-cd]pyrene				0.11	mg/kg		0.0869	mg/kg	0.00000869 %	✓	
			205-893-2	193-39-5									
26		dibenz[a,h]anthracene				0.04	mg/kg		0.0316	mg/kg	0.00000316 %	✓	
		601-041-00-2	200-181-8	53-70-3									
27		benzo[ghi]perylene				0.13	mg/kg		0.103	mg/kg	0.0000103 %	✓	
			205-883-8	191-24-2									
28		PAHs (total)				1.9	mg/kg		1.501	mg/kg	0.00015 %	✓	
29		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
30		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
31		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
32		xylene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<**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]									
										Total:	0.098 %		

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 Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
CLP: Note 1	Only the metal concentration has been used for classification

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 for cumulative determinand results below the threshold of: 500 mg/kg (0.05%) because: Non-flammable, long-chain hydrocarbons, no free phase liquids

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.00269%)

Appendix A: Classifier defined and non GB MCL determinands

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

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

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

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

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

- **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 Acute 1; H400 , Aquatic Chronic 1; H410

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

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

- **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: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **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: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **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 Acute 1; H400 , Aquatic Chronic 1; H410

- **PAHs (total)**

Description/Comments: Worst case scenario combining risk phrases and substance specific thresholds from benzo[a]pyrene (CLP# 601-032-00-3) and benzo[a]anthracene (CLP# 601-033-00-9)
Data source: 2008/1272/EC – Table 3.2 of Annex VI of regulation 1272/2008/EC - Classification, labelling and packaging of substances and mixtures and 2009/790/EC Annex IV – Annex IV of regulation 2009/790/EC - 1st Adaptation to Technical Progress for European Regulation 1272/2008
Data source date: 16 Dec 2008
Hazard Statements: Skin Sens. 1; H317 , Carc. 1B; H350 , Carc. 1B; H350 >= 0.01 % , Muta. 1B; H340 , Aquatic Acute 1; H400 (M=100) , Aquatic Chronic 1; H410 (M=100) , Repr. 1B; H360FD

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

GB MCL index number: 601-023-00-4
Description/Comments:
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

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 sulfate}

Worst Case Species Selected

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

(enter justification for selecting this species)

copper {copper sulphate pentahydrate}

Worst Case Species Selected

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weigh

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight

lead {lead chromate}

Worst Case Species Selected

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

(enter justification for selecting this species)

zinc {zinc chromate}

Worst Case Species Selected

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

(enter justification for selecting this species)

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021
HazWasteOnline Classification Engine Version: 2025.65.6483.11817 (06 Mar 2025)
HazWasteOnline Database: 2025.65.6483.11817 (06 Mar 2025)

This classification utilises the following guidance and legislation:
WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021
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 Waste 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
15th ATP - Regulation (EU) 2020/1182 of 19 May 2020
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020
The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020
GB MCL List - version 1.1 of 09 June 2021
GB MCL List v2.0 - version 2.0 of 20th October 2023
GB MCL List v3.0 - version 3.0 of 11th January 2024
GB MCL List v4.0 - version 4.0 of 2nd March 2024
GB MCL List v5.0 - version 5.0 of 26th June 2024

Appendix 15 – Secretary of State Letter regarding Denham Quarry (dated 18th October 2016)

Department for Transport

From the Secretary of State
The Rt. Hon. Chris Grayling

Great Minster House
33 Horseferry Road
London
SW1P 4DR

Tel: 0300 330 3000
E-Mail: chris.grayling@dft.gsi.gov.uk

Web site: www.gov.uk/dft

Karen Smaggasgale
Chair of the Trustees
Hillingdon Outdoor Activities Centre
Dews Lane
Harefield
UB9 6JN

Proposed relocation of Hillingdon Outdoor Activity Centre to Denham Quarry

As you know, following the report of the High Speed Rail (London – West Midlands) Select Committee in the Commons we agreed to progress the relocation of the Hillingdon Outdoor Activity Centre (HOAC) to the Denham Quarry site in South Buckinghamshire. Therefore, in June 2016 HS2 Ltd submitted a planning application to amend the Denham Quarry restoration scheme and have negotiated heads of terms on a lease with Buckinghamshire County Council as freeholder of the site.

However, throughout this process we have been clear that while we are committed to the on-going successful operation of HOAC this needs to be compatible with our duty to provide value for public money. I am writing to inform you that despite our best efforts, as negotiations have progressed it has become clear this relocation arrangement is at great risk of not being financially sustainable. The anticipated cost has more than doubled and the deal carries a clear risk that HOAC will face severe operating difficulties further down the line.

The lease conditions required by Buckinghamshire County Council for the Denham Quarry site are more commercial than those you currently have. This means that, assuming the same turnover, your lease costs will be £20,000 higher. In addition, Hillingdon Council has been clear that the £54,600 per annum grant, which represents 8% of HOAC's current income, will cease if HOAC move out of their administrative boundary. Buckinghamshire County Council and South Buckinghamshire District Council have been clear that they will not replace this funding. In addition, it is not clear whether South Buckinghamshire will require HOAC to pay business rates at Denham Quarry unlike in Hillingdon. This represents a clear threat to the on-going viability of HOAC at the Denham Quarry site. Furthermore, the expected cost of the

Denham Quarry site, including optimism bias, is now £55.1m. This means there is a very real prospect of a significant expenditure of public money on relocation that will result in HOAC facing severe operating difficulties or failing to operate.

My aim, and yours, is the on-going operation of HOAC, but I also have a responsibility to the tax payer. The relocation to Denham Quarry does not appear to meet either of these. In parallel with developing the Denham Quarry scheme HS2 Ltd have also been exploring options for maintaining HOAC on their current site. This work has revealed that not only will it be possible to maintain HAOC on their existing site until 2019, there is also a reconfiguration option that will provide segregated access to the HOAC site and a level of noise mitigation so there are unlikely to be any significant adverse noise effects on its activities. This option would remain within Hillingdon Council's administrative area and be located on land owned by Hillingdon Council, albeit requiring additional land than that which HOAC currently occupy, therefore, the issues of increased rent and reduced grant should not apply. This option also comes at a significantly lower cost to the public purse than the relocation option. In my view the reconfiguration option offers a far better option for HOAC's on-going viability than the relocation to Denham Quarry.

For those reasons I have with regret decided we cannot pursue the Denham Quarry option further and have asked HS2 Ltd to progress the reconfiguration on the existing site. Clearly this will be very disappointing to all those concerned but I wanted to make very clear that our commitment to pursue a relocation was made in good faith. It is only in the past few weeks that the full extent of the problems have come to light.

I am keenly aware of how highly valued HOAC is and I see the reconfiguration on site as the best option to ensure that HOAC can continue. We are absolutely committed to working with you to find a solution that will allow it to continue operating at its current site. I am aware that you did not petition against the HS2 Phase One hybrid Bill in the Lords, possibly on the basis of the Denham Quarry relocation being progressed. However, Hillingdon Council did petition and did include HOAC as part of that petition. We would have no objection to HOAC appearing with Hillingdon Council, if you wish to present your views on this development to the Lords Select Committee.

I am copying this letter to Nick Hurd MP, the Rt Hon Boris Johnson MP, Cllr Martin Tett, Cllr Ray Puddifoot and Neil Maddock.

With best wishes

Rt Hon Chris Grayling MP

SECRETARY OF STATE FOR TRANSPORT

Appendix 16 – Proposed Restoration Plans at New Denham Quarry

New Denham Quarry

Composite Restoration Scheme

Legend

- Main Site - 11/01460/CM
- Field Cottage - CM/32/14
- Northern Extension - CM/23/16
- Eastern Extension - CM/0003/23
- Dry broad-leaved woodland
- Wet woodland
- Hedgerows with hedgerow trees
- Tall tussocky grassland
- Meadow Mix Including Wildflowers
- Restored agricultural land
- Public Rights of Way
- New bridleway link
- New footpath link
- Lakes / Streams / Ditches
- Proposed clear span bridge
- Buffer strips / stream habitats
- Tall emergent vegetation including reeds
- Peat placement area - marshland species including tall emergents
- Agricultural soakaway drainage
- Area of mineral to be left in situ / regraded to allow ground water connectivity

Undisturbed Features / Habitats

- Undisturbed river / stream buffer habitat
- Existing / Undisturbed Woodland / Trees

DRAWING STATUS	PLANNING
PROJECT	NEW DENHAM QUARRY
CLIENT	Summerleaze Ltd
TITLE	Composite Restoration Scheme
DATE	Feb 2024
SCALE	1:5000 @A3
DRAWN	LSB/KD
CHECKED	CH
DRAW NO.	M12.162(m).D.002
REV	D

NOTE:
Colours altered on plan for clarity (not a new plan). Area discrepancies are due to linear habitat calculations

Summerleaze

PleydellSmithyman

THIS DRAWING MAY NOT BE USED WITHOUT CONSENT OF:

PLEYDELL SMITHYMAN LIMITED
20A THE WHARFAGE, IRONBRIDGE
SHROPSHIRE TF8 7NH
T. 01952 433211 F. 01952 433323
E. psl@pleydellsmithyman.co.uk
www.pleydellsmithyman.co.uk

REV	COMMENTS	DATE
D	Added Eastern Extension. Changed hatches. Label update	MAR 2024