APPENDIX D: Trial Hole Logs

2 The Long Barn, Norton Farm, Selborne Road, Alton, Hampshire GU34 3NB
0333 600 1221 enquiries@groundandwater.co.uk **groundandwater.co.uk**

Registered Office: Kineton House, 31 Horse Fair, Banbury, Oxfordshire OX16 0AE Registered in England No. 07032001

Percussion Drilling Log

Project Name: 10 Lyndhurst Road	Client: John Fitzpatrick	Date: 05/12/2023
Location: Hampstead, London NW3 5PX	Contractor:	Co-ords: E526799.00 N185369.00
Project No. : GWPR5717	Crew Name:	Drilling Equipment:

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
WS1	WLS	11.10m AoD		1:50	Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	D		0.30	10.80		TOPSOIL: Dark brown gravelly sandy silty CLAY. Sand was fine to coarse. Gravel was fine to coarse, sub-angular to sub-rounded flint.
		0.50	D					CLAYGATE MEMBER: Brown/orange mottled slightly sandy silty CLAY.
		0.80	D					
		1.00	D					
		1.00	SPT	N=11 (2,2/3,3,2,3)				
		1.50	D					
		2.00	D					
		2.00	SPT	N=19 (2,3/4,5,5,5)				
		2.50	D					
		3.00	D					
		3.00	SPT	N=16 (3,4/5,4,4,3)	3.20	7.90		LONDON CLAY FORMATION: Grey/brown/orange mottled silty CLAY.
		3.50	D					
		4.00	D					
		4.00	SPT	N=8 (2,2/2,2,2,2)				
		4.50	D					
		5.00	D		5.00	6.10		End of Borehole at 5.000m
		5.00	SPT	N=7 (1,2/2,1,2,2)				

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks

Fresh roots noted to 1.00m bgl. No groundwater encountered.

Percussion Drilling Log

Project Name: 10 Lyndhurst Road	Client: John Fitzpatrick	Date: 05/12/2023
Location: Hampstead, London NW3 5PX	Contractor:	Co-ords: E526801.00 N185352.00
Project No. : GWPR5717	Crew Name:	Drilling Equipment:

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
WS2	WLS	11.90m AoD		1:50	Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	D		0.40	11.50		GRASS OVER MADE GROUND: Dark brown gravelly sandy silty CLAY. Sand was fine to coarse. Gravel was fine to coarse, sub-angular to sub-rounded flint (70%) and brick (30%).
		0.50	D					
		0.80	D					
		1.00	D					CLAYGATE MEMBER: Brown/orange mottled slightly sandy silty CLAY.
		1.00	SPT	N=12 (2,3/3,3,3,3)				
		1.50	D					
		2.00	D					
		2.00	SPT	N=15 (3,3/4,3,4,4)				
		2.50	D					
		3.00	D		3.10	8.80		
		3.00	SPT	N=8 (2,2/1,2,2,3)				LONDON CLAY FORMATION: Grey/brown/orange mottled silty CLAY.
		3.50	D					
		4.00	D					
		4.00	SPT	N=7 (1,1/2,2,1,2)				
		4.50	D					
		5.00	D		5.00	6.90		
		5.00	SPT	N=8 (1,2/2,2,2,2)				End of Borehole at 5.000m

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks

Fresh roots noted to 1.00m bgl. No groundwater encountered.

Percussion Drilling Log

Project Name: 10 Lyndhurst Road	Client: John Fitzpatrick	Date: 05/12/2023
Location: Hampstead, London NW3 5PX	Contractor:	Co-ords: E526791.00 N185378.00
Project No. : GWPR5717	Crew Name:	Drilling Equipment:

Borehole Number	Hole Type	Level	Logged By	Scale	Page Number
WS3	WLS	12.80m AoD		1:50	Sheet 1 of 1

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.20	D					GRASS OVER TOPSOIL: Dark brown gravelly sandy silty CLAY. Sand was fine to coarse. Gravel was fine to coarse, sub-angular to sub-rounded flint.
		0.50	D		0.60	12.20		
		0.80	D					CLAYGATE MEMBER: Brown/orange mottled slightly sandy silty CLAY.
		1.00	D					
		1.00	SPT	N=12 (2,2/2,3,4,3)				
		1.50	D					
		2.00	D					
		2.00	SPT	N=16 (2,3/3,4,5,4)				
		2.50	D					
		3.00	D		2.90	9.90		
		3.00	SPT	N=15 (2,2/3,4,4,4)				LONDON CLAY FORMATION: Grey/brown/orange mottled silty CLAY.
		3.50	D					
		4.00	D					
		4.00	SPT	N=9 (2,3/3,2,2,2)				
		4.50	D					
		5.00	D		5.00	7.80		
		5.00	SPT	N=9 (2,2/2,2,2,3)				End of Borehole at 5.000m

Hole Diameter		Casing Diameter		Chiselling				Inclination and Orientation			
Depth Base	Diameter	Depth Base	Diameter	Depth Top	Depth Base	Duration	Tool	Depth Top	Depth Base	Inclination	Orientation

Remarks

Fresh roots noted to 0.50m bgl. No groundwater encountered.

APPENDIX E: Geotechnical Laboratory Testing

2 The Long Barn, Norton Farm, Selborne Road, Alton, Hampshire GU34 3NB
0333 600 1221 enquiries@groundandwater.co.uk **groundandwater.co.uk**

Registered Office: Kineton House, 31 Horse Fair, Banbury, Oxfordshire OX16 0AE Registered in England No. 07032001

Laboratory Report

UKAS TESTING 2788

GSTL
GEOTECHNICAL SITE & TESTING LABORATORIES
A PHENNA GROUP COMPANY

Contract Number: 70211

Client Ref: **GWPR5717**
Client PO: **GWPR5717**

Date Received: **15-12-2023**
Date Completed: **20-12-2023**
Report Date: **20-12-2023**

Client: **Ground and Water Limited**

Contract Title: **10 Lyndhurst Road, Hampstead, London NW3 5PX**
For the attention of: **Robert Terrell**

Test Description	Qty
Moisture Content BS 1377:1990 - Part 2 : 3.2 - * UKAS	5
1 Point Liquid & Plastic Limit BS 1377:1990 - Part 2 : 4.4 & 5.3 - * UKAS	5
Disposal of samples for job	1

Notes: **Observations and Interpretations are outside the UKAS Accreditation**
*** - denotes test included in laboratory scope of accreditation**
 # - denotes test carried out by approved contractor
@ - denotes non accredited tests

Approved Signatories:
Brendan Evans (Office Administrator) - Darren Bourne (Quality Senior Technician) - Paul Evans (Director)
Richard John (Quality/Technical Manager) - Shaun Jones (Laboratory manager) - Shaun Thomas (Site Manager)
Wayne Honey (Human Resources/ Health and Safety Manager)

GEO Site & Testing Services Ltd
Unit 3-4 Heol Aur, Dafen Ind Est, Llanelli, Carmarthenshire SA14 8QN
Tel: 01554 784040 Fax: 01554 TBA info@gstl.co.uk https://gstl.co.uk

GSTL GEOTECHNICAL SITE & TESTING LABORATORIES	NATURAL MOISTURE, LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX (BS 1377:1990 - Part 2 : 4.4 & 5.3)	
Contract Number	70211	
Project Name	10 Lyndhurst Road, Hampstead, London NW3 5PX	
Date Tested	19/12/2023	
	DESCRIPTIONS	

Sample/Hole Reference	Sample Number	Sample Type	Depth (m)			Descriptions
WS1		D	0.50	-		Brown silty CLAY
WS1		D	5.00	-		Brown silty CLAY
WS2		D	0.80	-		Brown silty CLAY
WS2		D	2.50	-		Brown silty CLAY
WS3		D	3.50	-		Brown silty CLAY
				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		
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				-		
				-		
				-		
				-		
				-		
				-		
				-		
				-		

Operator
Clayton Jenkins

NATURAL MOISTURE, LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX
(BS 1377:1990 - Part 2 : 4.4 & 5.3)

GSTL
GEOTECHNICAL SITE & TESTING LABORATORIES

Contract Number	70211
Project Name	10 Lyndhurst Road, Hampstead, London NW3 5PX
Date Tested	19/12/2023

Sample/Hole Reference	Sample Number	Sample Type	Depth (m)			Moisture Content %	Liquid Limit %	Plastic Limit %	Plasticity index %	Passing 0.425mm %	Remarks
WS1		D	0.50	-		26	62	21	41	100	CH High Plasticity
WS1		D	5.00	-		30	63	27	36	100	CH High Plasticity
WS2		D	0.80	-		22	57	19	38	100	CH High Plasticity
WS2		D	2.50	-		31	61	25	36	100	CH High Plasticity
WS3		D	3.50	-		23	58	19	39	100	CH High Plasticity
				-							
				-							
				-							
				-							
				-							
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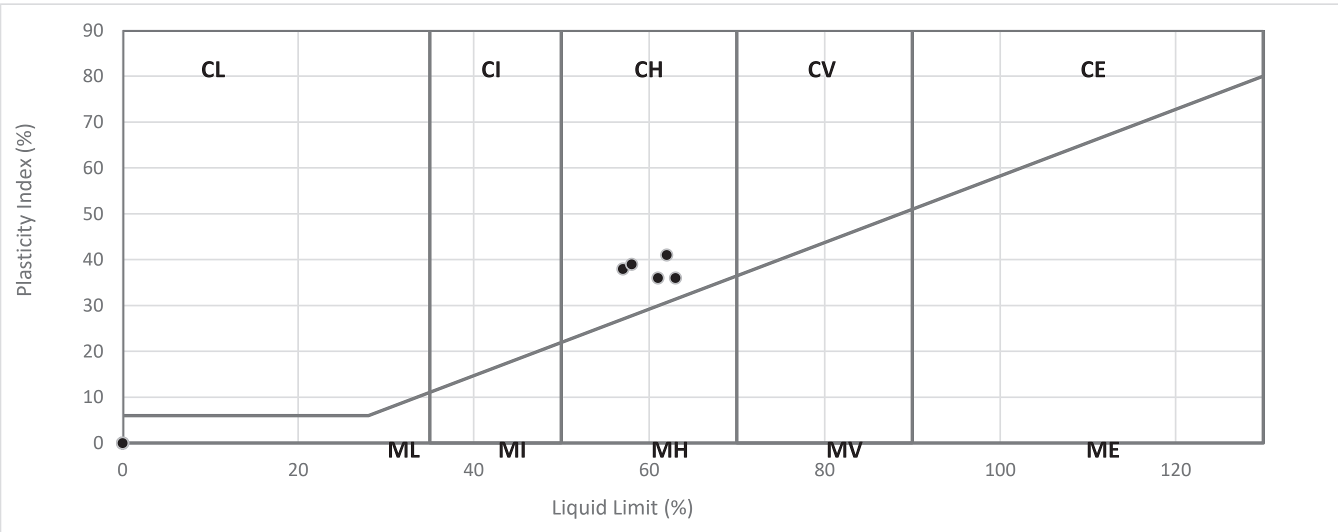
				-							
				-							

Symbols: NP : Non Plastic # : Liquid Limit and Plastic Limit Wet Sieved

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION
BS 5930:2015+A1:2020



Operator
Clayton Jenkins

UKAS TESTING
2788

APPENDIX F: Chemical Laboratory Testing

2 The Long Barn, Norton Farm, Selborne Road, Alton, Hampshire GU34 3NB
0333 600 1221 enquiries@groundandwater.co.uk **groundandwater.co.uk**

Registered Office: Kineton House, 31 Horse Fair, Banbury, Oxfordshire OX16 0AE Registered in England No. 07032001

Units 7-8 Hawarden Business Park
Manor Road (off Manor Lane)
Hawarden
Deeside
CH5 3US
Tel: (01244) 528777
email: hawardencustomerservices@alsglobal.com
Website: www.alsenvironmental.co.uk

Ground and Water Ltd
Head Office
2 The Long Barn
Norton Farm, Selborne Road
Alton
Hampshire
GU34 3NB

Attention: Robert Terrell

CERTIFICATE OF ANALYSIS

Date of report Generation:	20 December 2023
Customer:	Ground and Water Ltd
Sample Delivery Group (SDG):	231213-76
Your Reference:	GWPR5717
Location:	10 Lyndhurst Road, Hampstead, London NW3
Report No:	715110
Order Number:	GWPR5717

We received 6 samples on Wednesday December 13, 2023 and 6 of these samples were scheduled for analysis which was completed on Wednesday December 20, 2023. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden.

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.
Incorrect sampling dates and/or sample information will affect the validity of results.

Approved By:

Sonia McWhan
Operations Manager

1291

CERTIFICATE OF ANALYSIS

SDG: 231213-76 **Report Number:** 715110 **Superseded Report:**
Client Ref.: GWPR5717 **Location:** 10 Lyndhurst Road, Hampstead, London NW3 5PX

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
29096850	WS1		0.20 - 0.20	05/12/2023
29096863	WS1		0.80 - 0.80	05/12/2023
29096855	WS2		0.50 - 0.50	05/12/2023
29096865	WS2		2.50 - 2.50	05/12/2023
29096859	WS3		0.20 - 0.20	05/12/2023
29096867	WS3		4.50 - 4.50	05/12/2023

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG: 231213-76 **Report Number:** 715110 **Superseded Report:**
Client Ref.: GWPR5717 **Location:** 10 Lyndhurst Road, Hampstead, London NW3 5PX

Results Legend
X Test
N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	29096850	29096863	29096855	29096865	29096859	29096867
			Customer Sample Reference	WS1	WS1	WS2	WS2	WS3	WS3
			AGS Reference						
			Depth (m)	0.20 - 0.20	0.80 - 0.80	0.50 - 0.50	2.50 - 2.50	0.20 - 0.20	4.50 - 4.50
			Container	1kg Cardboard Container (ALE230)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg Cardboard Container (ALE230)	1kg Cardboard Container (ALE230)	250g Amber Jar (ALE210)	1kg Cardboard Container (ALE230)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg Cardboard Container (ALE230)	1kg Cardboard Container (ALE230)	250g Amber Jar (ALE210)	1kg Cardboard Container (ALE230)
			Sample Type	S	S	S	S	S	S	S	S	S	S	S	S	S
Ammoniacal N as NH4 in 2:1 extract	All	NDPs: 0 Tests: 2					X								X
ANC at pH4 and ANC at pH 6	All	NDPs: 0 Tests: 1			X										
Anions by Kone (soil)	All	NDPs: 0 Tests: 6			X		X		X		X		X		X
Anions by Kone (w)	All	NDPs: 0 Tests: 1	X												
Asbestos ID in Solid Samples	All	NDPs: 0 Tests: 3	X				X				X				
Boron Water Soluble	All	NDPs: 0 Tests: 3			X			X					X		
CEN Readings	All	NDPs: 0 Tests: 1	X												
Coronene	All	NDPs: 0 Tests: 1			X										
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 3			X			X					X		
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 1	X												
Dissolved Organic/Inorganic Carbon	All	NDPs: 0 Tests: 1	X												
EPH by GCxGC-FID	All	NDPs: 0 Tests: 1			X										
EPH CWG GC (S)	All	NDPs: 0 Tests: 2			X			X							
Fluoride	All	NDPs: 0 Tests: 1	X												
GRO by GC-FID (S)	All	NDPs: 0 Tests: 2				X			X						

CERTIFICATE OF ANALYSIS

SDG: 231213-76 **Report Number:** 715110 **Superseded Report:**
Client Ref.: GWPR5717 **Location:** 10 Lyndhurst Road, Hampstead, London NW3 5PX

Results Legend
X Test
N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	29096850	29096863	29096855	29096865	29096859	29096867
			Customer Sample Reference	WS1	WS1	WS2	WS2	WS3	WS3
			AGS Reference						
			Depth (m)	0.20 - 0.20	0.80 - 0.80	0.50 - 0.50	2.50 - 2.50	0.20 - 0.20	4.50 - 4.50
			Container	1kg Cardboard Container (ALE230)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg Cardboard Container (ALE230)	1kg Cardboard Container (ALE230)	250g Amber Jar (ALE210)	1kg Cardboard Container (ALE230)	250g Amber Jar (ALE210)	1kg Cardboard Container (ALE230)
			Sample Type	S	S	S	S	S	S	S	S	S	S
Hexavalent Chromium (s)	All	NDPs: 0 Tests: 3			X				X				X	
Loss on Ignition in soils	All	NDPs: 0 Tests: 1			X									
Magnesium (BRE)	All	NDPs: 0 Tests: 2					X							X
Mercury Dissolved	All	NDPs: 0 Tests: 1	X											
Metals in solid samples by OES	All	NDPs: 0 Tests: 3			X				X				X	
NO3, NO2 and TON by KONE (s)	All	NDPs: 0 Tests: 2					X							X
PAH 16 & 17 Calc	All	NDPs: 0 Tests: 1			X									
PAH by GCMS	All	NDPs: 0 Tests: 3			X				X				X	
PCBs by GCMS	All	NDPs: 0 Tests: 1			X									
pH	All	NDPs: 0 Tests: 6			X		X		X		X		X	X
pH Value of Filtered Water	All	NDPs: 0 Tests: 1	X											
Phenols by HPLC (S)	All	NDPs: 0 Tests: 3			X				X				X	
Phenols by HPLC (W)	All	NDPs: 0 Tests: 1	X											
Sample description	All	NDPs: 0 Tests: 6			X		X		X		X		X	X
Total Organic Carbon	All	NDPs: 0 Tests: 3			X				X				X	

CERTIFICATE OF ANALYSIS

SDG: 231213-76 **Report Number:** 715110 **Superseded Report:**
Client Ref.: GWPR5717 **Location:** 10 Lyndhurst Road, Hampstead, London NW3 5PX

Results Legend

X Test

N No Determination Possible

Sample Types -
S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water
Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

			Lab Sample No(s)	29096850	29096863	29096855	29096865	29096859	29096867
			Customer Sample Reference	WS1	WS1	WS2	WS2	WS3	WS3
			AGS Reference						
			Depth (m)	0.20 - 0.20	0.80 - 0.80	0.50 - 0.50	2.50 - 2.50	0.20 - 0.20	4.50 - 4.50
			Container	1kg Cardboard Container (ALE230)	250g Amber Jar (ALE210)	60g VOC (ALE215)	1kg Cardboard Container (ALE230)	1kg Cardboard Container (ALE230)	250g Amber Jar (ALE210)	1kg Cardboard Container (ALE230)	1kg Cardboard Container (ALE230)	250g Amber Jar (ALE210)	1kg Cardboard Container (ALE230)
			Sample Type	S	S	S	S	S	S	S	S	S	S
Total Sulphate	All	NDPs: 0 Tests: 2					X						X
Total Sulphur	All	NDPs: 0 Tests: 2					X						X
TPH CWG GC (S)	All	NDPs: 0 Tests: 2		X			X						
VOC MS (S)	All	NDPs: 0 Tests: 2			X			X					

Sample Descriptions

Grain Sizes

very fine	<0.063mm	fine	0.063mm - 0.1mm	medium	0.1mm - 2mm	coarse	2mm - 10mm	very coarse	>10mm

Lab Sample No(s)	Customer Sample Ref.	Depth (m)	Colour	Description	Inclusions	Inclusions 2
29096850	WS1	0.20 - 0.20	Dark Brown	Sandy Clay Loam	Stones	Vegetation
29096863	WS1	0.80 - 0.80	Light Brown	Silty Sand	None	None
29096855	WS2	0.50 - 0.50	Dark Brown	Sandy Clay Loam	Stones	Vegetation
29096865	WS2	2.50 - 2.50	Light Brown	Silty Clay Loam	Stones	Vegetation
29096859	WS3	0.20 - 0.20	Dark Brown	Sandy Loam	Stones	Crushed Brick
29096867	WS3	4.50 - 4.50	Light Brown	Clay	None	None

These descriptions are only intended to act as a cross check if sample identities are questioned, and to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions.

We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally ocurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample.

Other coarse granular materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

CERTIFICATE OF ANALYSIS

SDG: 231213-76 **Report Number:** 715110 **Superseded Report:**
Client Ref.: GWPR5717 **Location:** 10 Lyndhurst Road, Hampstead, London NW3 5PX

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+5@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	WS1	WS1	WS2	WS2	WS3	WS3
			Depth (m)	0.20 - 0.20	0.80 - 0.80	0.50 - 0.50	2.50 - 2.50	0.20 - 0.20	4.50 - 4.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
			Sampled Time	00:00	00:00	00:00	00:00	00:00	00:00
			Date Received	13/12/2023	13/12/2023	13/12/2023	13/12/2023	13/12/2023	13/12/2023
			SDG Ref	231213-76	231213-76	231213-76	231213-76	231213-76	231213-76
			Lab Sample No.(s)	29096850	29096863	29096855	29096865	29096859	29096867
			AGS Reference						
Moisture Content Ratio (% of as received sample)	%	PM024		19	21	15	18	18	19
Loss on ignition	<0.7 %	TM018		9.92 M					
Phenol	<0.01 mg/kg	TM062 (S)		<0.01 M		<0.01 M		<0.01 M	
Cresols	<0.01 mg/kg	TM062 (S)		<0.01 M		<0.01 M		<0.01 M	
Xylenols	<0.015 mg/kg	TM062 (S)		<0.015 M		<0.015 M		<0.015 M	
Phenols, Total Detected monohydric	<0.035 mg/kg	TM062 (S)		<0.035 M		<0.035 M		<0.035 M	
Organic Carbon, Total	<0.2 %	TM132		3.7 M		2.58 M		2.87 M	
Sulphur, Total	<0.02 %	TM132			0.0959 #				0.0464 #
Soil Organic Matter (SOM)	<0.35 %	TM132		6.38 #		4.45 #		4.95 #	
pH	1 pH Units	TM133		8.2 M	7.83 M	7.6 M	7.97 M	7.68 M	7.55 M
Chromium, Hexavalent	<0.6 mg/kg	TM151		1.7 M		0.982 M		<0.6 M	
Cyanide, Total	<1 mg/kg	TM153		<1 M		<1 M		1.2 M	
PCB congener 28	<0.003 mg/kg	TM168		<0.003 M					
PCB congener 52	<0.003 mg/kg	TM168		<0.003 M					
PCB congener 101	<0.003 mg/kg	TM168		<0.003 M					
PCB congener 118	<0.003 mg/kg	TM168		<0.003 M					
PCB congener 138	<0.003 mg/kg	TM168		0.00524 M					
PCB congener 153	<0.003 mg/kg	TM168		0.00814 M					
PCB congener 180	<0.003 mg/kg	TM168		0.0112 M					
Sum of detected PCB 7 Congeners	<0.021 mg/kg	TM168		0.0245					
Arsenic	<0.6 mg/kg	TM181		23.1 M		16.4 M		14.6 M	
Cadmium	<0.02 mg/kg	TM181		0.942 M		0.263 M		0.67 M	
Chromium	<0.9 mg/kg	TM181		36.4 M		19.7 M		23.7 M	
Copper	<1.4 mg/kg	TM181		92.2 M		43.2 M		41.8 M	
Lead	<0.7 mg/kg	TM181		2950 M		687 M		840 M	
Mercury	<0.1 mg/kg	TM181		1.1 M		0.387 M		0.44 M	
Nickel	<0.2 mg/kg	TM181		34 M		18.9 M		15.4 M	
Selenium	<1 mg/kg	TM181		<1 #		<1 #		<1 #	
Vanadium	<0.2 mg/kg	TM181		55.7 #		39.6 #		39.4 #	
Zinc	<1.9 mg/kg	TM181		1120 M		301 M		369 M	
ANC @ pH 4	<0.03 mol/kg	TM182		0.119					
ANC @ pH 6	<0.03 mol/kg	TM182		<0.03					

CERTIFICATE OF ANALYSIS

SDG: 231213-76 **Report Number:** 715110 **Superseded Report:**
Client Ref.: GWPR5717 **Location:** 10 Lyndhurst Road, Hampstead, London NW3 5PX

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+5@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	WS1	WS1	WS2	WS2	WS3	WS3
			Depth (m)	0.20 - 0.20	0.80 - 0.80	0.50 - 0.50	2.50 - 2.50	0.20 - 0.20	4.50 - 4.50
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
			Date Sampled	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023	05/12/2023
			Sampled Time	00:00	00:00	00:00	00:00	00:00	00:00
			Date Received	13/12/2023	13/12/2023	13/12/2023	13/12/2023	13/12/2023	13/12/2023
			SDG Ref	231213-76	231213-76	231213-76	231213-76	231213-76	231213-76
			Lab Sample No.(s)	29096850	29096863	29096855	29096865	29096859	29096867
			AGS Reference						
Sulphate, acid soluble (total)	<0.0048 %	TM221			0.161 M				0.102 M
Boron, water soluble	<1 mg/kg	TM222	<1 M			<1 M		<1 M	
Water Soluble Sulphate as SO4 2:1 Extract	<0.004 g/l	TM243	<0.004 M			<0.004 M		<0.004 M	
Soluble Sulphate 2:1 extract as SO4 BRE	<0.004 g/l	TM243			0.0547 M		<0.004 M		0.0744 M
Chloride 2:1 water/soil extract BRE	<0.0025 g/l	TM243			0.0129 M				0.0163 M
Nitrate as NO3, 2:1 water soluble (BRE)	<0.0003 g/l	TM243			0.0109				0.00381
Ammoniacal N as NH4 in 2:1 extract BRE	<0.0003 g/l	TM248			0.00226				0.00173
Magnesium (BRE)	<0.008 g/l	TM282			<0.008				<0.008
PAH Total 17 (inc Coronene) Moisture Corrected	<10 mg/kg	TM410	11.3						
Coronene	<0.2 mg/kg	TM410	<0.2						
EPH Surrogate % recovery**	%	TM415	115						
Mineral Oil >C10-C40 (EH_2D_AL)	<5 mg/kg	TM415	30.2						

PAH by GCMS

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+5@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	WS1	WS2	WS3			
			Depth (m)	0.20 - 0.20	0.50 - 0.50	0.20 - 0.20			
			Sample Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)			
			Date Sampled	05/12/2023	05/12/2023	05/12/2023			
			Sampled Time	00:00	00:00	00:00			
			Date Received	13/12/2023	13/12/2023	13/12/2023			
			SDG Ref	231213-76	231213-76	231213-76			
			Lab Sample No.(s)	29096850	29096855	29096859			
			AGS Reference						
Naphthalene-d8 % recovery**	%	TM218		86.9	88.9	83.9			
Acenaphthene-d10 % recovery**	%	TM218		89.8	90.9	88			
Phenanthrene-d10 % recovery**	%	TM218		90.1	92.8	83.6			
Chrysene-d12 % recovery**	%	TM218		86.3	91.5	75.9			
Perylene-d12 % recovery**	%	TM218		89.6	92.3	79.8			
Naphthalene	<0.009 mg/kg	TM218		0.0164 M	0.109 M	0.019 M			
Acenaphthylene	<0.012 mg/kg	TM218		0.0932 M	0.0872 M	0.0537 M			
Acenaphthene	<0.008 mg/kg	TM218		0.0231 M	0.0982 M	0.0277 M			
Fluorene	<0.01 mg/kg	TM218		0.0441 M	0.106 M	0.0306 M			
Phenanthrene	<0.015 mg/kg	TM218		0.824 M	2.15 M	0.664 M			
Anthracene	<0.016 mg/kg	TM218		0.18 M	0.355 M	0.117 M			
Fluoranthene	<0.017 mg/kg	TM218		2.06 M	3.96 M	1.64 M			
Pyrene	<0.015 mg/kg	TM218		1.75 M	3.25 M	1.38 M			
Benz(a)anthracene	<0.014 mg/kg	TM218		1.01 M	1.66 M	0.764 M			
Chrysene	<0.01 mg/kg	TM218		0.903 M	1.59 M	0.777 M			
Benzo(b)fluoranthene	<0.015 mg/kg	TM218		1.35 M	1.9 M	0.949 M			
Benzo(k)fluoranthene	<0.014 mg/kg	TM218		0.47 M	0.781 M	0.362 M			
Benzo(a)pyrene	<0.015 mg/kg	TM218		1.09 M	1.59 M	0.811 M			
Indeno(1,2,3-cd)pyrene	<0.018 mg/kg	TM218		0.698 M	0.866 M	0.482 M			
Dibenzo(a,h)anthracene	<0.023 mg/kg	TM218		0.115 M	0.117 M	0.081 M			
Benzo(g,h,i)perylene	<0.024 mg/kg	TM218		0.687 M	0.919 M	0.482 M			
PAH, Total Detected USEPA 16	<0.118 mg/kg	TM218		11.3	19.5	8.65			

TPH CWG (S)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4+5@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	WS1	WS2				
			Depth (m)	0.20 - 0.20	0.50 - 0.50				
			Sample Type	Soil/Solid (S)	Soil/Solid (S)				
			Date Sampled	05/12/2023	05/12/2023				
			Sampled Time	00:00	00:00				
			Date Received	13/12/2023	13/12/2023				
			SDG Ref	231213-76	231213-76				
			Lab Sample No.(s)	29096850	29096855				
			AGS Reference						
GRO Surrogate % recovery**	%	TM089		113	70.5				
Aliphatics >C5-C6 (HS_1D_AL)	<0.01 mg/kg	TM089		<0.01	<0.01				
Aliphatics >C6-C8 (HS_1D_AL)	<0.01 mg/kg	TM089		0.0372	<0.01				
Aliphatics >C8-C10 (HS_1D_AL)	<0.01 mg/kg	TM089		0.062	<0.01				
Aliphatics >C10-C12 (EH_2D_AL_#1)	<1 mg/kg	TM414		<1 #	<1 #				
Aliphatics >C12-C16 (EH_2D_AL_#1)	<1 mg/kg	TM414		<1 #	<1 #				
Aliphatics >C16-C21 (EH_2D_AL_#1)	<1 mg/kg	TM414		<1 #	<1 #				
Aliphatics >C21-C35 (EH_2D_AL_#1)	<1 mg/kg	TM414		6.17 #	8.94 #				
Aliphatics >C35-C44 (EH_2D_AL_#1)	<1 mg/kg	TM414		<1	<1				
Total Aliphatics >C10-C44 (EH_2D_AR_#1)	<5 mg/kg	TM414		7.29	10.2				
Total Aliphatics & Aromatics >C10-C44 (EH_2D_Total_#1)	<10 mg/kg	TM414		68.9	56.6				
Aromatics >EC5-EC7 (HS_1D_AR)	<0.01 mg/kg	TM089		<0.01	<0.01				
Aromatics >EC7-EC8 (HS_1D_AR)	<0.01 mg/kg	TM089		<0.01	<0.01				
Aromatics >EC8-EC10 (HS_1D_AR)	<0.01 mg/kg	TM089		0.0422	<0.01				
Aromatics > EC10-EC12 (EH_2D_AR_#1)	<1 mg/kg	TM414		<1 #	<1 #				
Aromatics > EC12-EC16 (EH_2D_AR_#1)	<1 mg/kg	TM414		1.51 #	<1 #				
Aromatics > EC16-EC21 (EH_2D_AR_#1)	<1 mg/kg	TM414		10.2 #	7.91 #				
Aromatics > EC21-EC35 (EH_2D_AR_#1)	<1 mg/kg	TM414		44.4 #	35.5 #				
Aromatics >EC35-EC44 (EH_2D_AR_#1)	<1 mg/kg	TM414		5.48	3.04				
Aromatics > EC40-EC44 (EH_2D_AR_#1)	<1 mg/kg	TM414		<1	<1				
Total Aromatics > EC10-EC44 (EH_2D_AR_#1)	<5 mg/kg	TM414		61.6	46.5				
Total Aliphatics & Aromatics >C5-C44 (EH_2D_Total_#1+HS_1D_Total)	<10 mg/kg	TM414		69	56.6				
Total Aliphatics >C5-C10 (HS_1D_AL_TOTAL)	<0.05 mg/kg	TM089		0.0992	<0.05				
Total Aromatics >EC5-EC10 (HS_1D_AR_TOTAL)	<0.05 mg/kg	TM089		<0.05	<0.05				
GRO >C5-C10 (HS_1D_TOTAL)	<0.02 mg/kg	TM089		0.0992	<0.02				

VOC MS (S)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted - refer to subcontractor report for accreditation status.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-4◆§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	WS1	WS2				
			Depth (m)	0.20 - 0.20	0.50 - 0.50				
			Sample Type	Soil/Solid (S)	Soil/Solid (S)				
			Date Sampled	05/12/2023	05/12/2023				
			Sampled Time	00:00	00:00				
			Date Received	13/12/2023	13/12/2023				
			SDG Ref	231213-76	231213-76				
			Lab Sample No.(s)	29096850	29096855				
			AGS Reference						
Dibromofluoromethane**	%	TM116		110	106				
Toluene-d8**	%	TM116		98.2	95.9				
4-Bromofluorobenzene**	%	TM116		96.4	91				
Methyl Tertiary Butyl Ether	<0.0005 mg/kg	TM116		<0.01 M	<0.01 M				
Benzene	<0.001 mg/kg	TM116		<0.02 M	<0.02 M				
Toluene	<0.001 mg/kg	TM116		<0.02 M	<0.02 M				
Ethylbenzene	<0.001 mg/kg	TM116		<0.02 M	<0.02 M				
p/m-Xylene	<0.002 mg/kg	TM116		<0.04 #	<0.04 #				
o-Xylene	<0.002 mg/kg	TM116		<0.04 M	<0.04 M				
Sum of Detected Xylenes	<0.02 mg/kg	TM116		<0.4	<0.4				
Sum of BTEX	<0.007 mg/kg	TM116		<0.14	<0.14				

CERTIFICATE OF ANALYSIS

SDG: 231213-76 **Report Number:** 715110 **Superseded Report:**
Client Ref.: GWPR5717 **Location:** 10 Lyndhurst Road, Hampstead, London NW3 5PX

Asbestos Identification - Solid Samples

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
*	Subcontracted test.
(F)	Trigger breach confirmed
1-5&♦§@	Sample deviation (see appendix)

		Date of Analysis	Analysed By	Comments	Amosite (Brown) Asbestos	Asbestos Actinolite	Asbestos Anthophyllite	Asbestos Tremolite	Chrysotile (White) Asbestos	Crocidolite (Blue) Asbestos	Non-Asbestos Fibre
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	WS1 0.20 - 0.20 SOLID 05/12/2023 00:00:00 13/12/2023 05:00:00 231213-76 29096850 TM048	18/12/2023	Odhran McLernon	-	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	WS2 0.50 - 0.50 SOLID 05/12/2023 00:00:00 13/12/2023 05:00:00 231213-76 29096855 TM048	18/12/23	Ashia Jackson	N/A	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected
Cust. Sample Ref. Depth (m) Sample Type Date Sampled Date Receieved SDG Original Sample Method Number	WS3 0.20 - 0.20 SOLID 05/12/2023 00:00:00 13/12/2023 05:00:00 231213-76 29096859 TM048	18/12/2	Ashia Jackson	N/A	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Not Detected (#)	Detected

CERTIFICATE OF ANALYSIS

SDG: 231213-76 | Report Number: 715110 | Superseded Report:
Client Ref.: GWPR5717 | Location: 10 Lyndhurst Road, Hampstead, London NW3 5PX

CEN 10:1 SINGLE STAGE LEACHATE TEST

CEN ANALYTICAL RESULTS

REF : BS EN 12457/2

Client Reference		**Site Location**	10 Lyndhurst Road, Hampstead
Mass Sample taken (kg)	0.114	**Natural Moisture Content (%)**	26.5
Mass of dry sample (kg)	0.090	**Dry Matter Content (%)**	79
Particle Size <4mm	>95%		

Case	
SDG	231213-76
Lab Sample Number(s)	29096850
Sampled Date	05-Dec-2023
Customer Sample Ref.	WS1
Depth (m)	0.20 - 0.20

Solid Waste Analysis	Result	Landfill Waste Acceptance Criteria Limits: Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Total Organic Carbon (%)	3.7	3	5	6
Loss on Ignition (%)	9.92	-	-	10
Sum of BTEX (mg/kg)	<0.14	6	-	-
Sum of 7 PCBs (mg/kg)	0.0245	1	-	-
Mineral Oil (mg/kg) (EH_2D_AL)	30.2	500	-	-
PAH Sum of 17 (mg/kg)	11.3	100	-	-
pH (pH Units)	8.2	-	>6	-
ANC to pH 6 (mol/kg)	<0.03	-	-	-
ANC to pH 4 (mol/kg)	0.119	-	-	-

Eluate Analysis	C_2 Concⁿ in 10:1 eluate (mg/l)		A_2 10:1 concⁿ leached (mg/kg)		Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg		
	Result	Limit of Detection	Result	Limit of Detection			
Arsenic	0.0067	<0.0005	0.067	<0.005	0.5	2	25
Barium	0.0159	<0.0002	0.159	<0.002	20	100	300
Cadmium	<0.00008	<0.00008	<0.0008	<0.0008	0.04	1	5
Chromium	0.00881	<0.001	0.0881	<0.01	0.5	10	70
Copper	0.00827	<0.0003	0.0827	<0.003	2	50	100
Mercury Dissolved (CVAF)	<0.00001	<0.00001	<0.0001	<0.0001	0.01	0.2	2
Molybdenum	<0.003	<0.003	<0.03	<0.03	0.5	10	30
Nickel	0.00167	<0.0004	0.0167	<0.004	0.4	10	40
Lead	0.0181	<0.0002	0.181	<0.002	0.5	10	50
Antimony	0.00395	<0.001	0.0395	<0.01	0.06	0.7	5
Selenium	<0.001	<0.001	<0.01	<0.01	0.1	0.5	7
Zinc	0.0172	<0.001	0.172	<0.01	4	50	200
Chloride	6.8	<2	68	<20	800	15000	25000
Fluoride	<0.5	<0.5	<5	<5	10	150	500
Sulphate (soluble)	<2	<2	<20	<20	1000	20000	50000
Total Dissolved Solids	71.1	<10	711	<100	4000	60000	100000
Total Monohydric Phenols (W)	<0.016	<0.016	<0.16	<0.16	1	-	-
Dissolved Organic Carbon	5.16	<3	51.6	<30	500	800	1000

Leach Test Information

Date Prepared	13-Dec-2023
pH (pH Units)	8.29
Conductivity (µS/cm)	92
Volume Leachant (Litres)	0.876

Solid Results are expressed on a dry weight basis, after correction for moisture content where applicable
Leachates prepared in accordance with BS EN 12457 will be carried out at room temperature (20±5°C)
Stated limits are for guidance only and ALS Laboratories (UK) Limited cannot be held responsible for any discrepancies with current legislation

20/12/2023 16:02:35

Table of Results - Appendix

Method No	Description
TM104	Determination of Fluoride using the Kone Analyser
TM182	Determination of Acid Neutralisation Capacity (ANC) Using Autotitration in Soils
TM183	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry
TM184	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers
TM414	Determination of Speciated Extractable Petroleum Hydrocarbons in Soils by GCxGC-FID
TM089	Determination of Gasoline Range Hydrocarbons (GRO) by Headspace GC-FID (C4-C12)
TM151	Determination of Hexavalent Chromium using Kone analyser
TM181	Determination of Routine Metals in Soil by iCap 6500 Duo ICP-OES
TM048	Identification of Asbestos in Bulk Material
TM062 (S)	Determination of Phenols in Soils by HPLC
TM152	Analysis of Aqueous Samples by ICP-MS
TM153	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate using the Skalar SANS+ System Segmented Flow Analyser
TM168	Determination of WHO12 and EC7 Polychlorinated Biphenyl Congeners by GC-MS in Soils
TM218	The determination of PAH in soil samples by GC-MS
TM222	Determination of Hot Water Soluble Boron in Soils (10:1 Water:Soil) by ICP OES.
TM248	Determination of Ammonium BRE (2:1 Extract) on solids
TM256	Determination of pH, EC, TDS and Alkalinity in Aqueous samples
TM282	Extraction of Magnesium by BRE Method
TM415	Determination of Extractable Petroleum Hydrocarbons in Soils by GCxGC-FID
PM024	Soil preparation including homogenisation, moisture, screens of soils for Asbestos Containing Material
PM115	Leaching Procedure for CEN One Stage Leach Test 2:1 & 10:1 1 Step
TM018	Determination of Loss on Ignition
TM090	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water
TM116	Determination of Volatile Organic Compounds by Headspace / GC-MS
TM132	ELTRA CS800 Operators Guide
TM133	Determination of pH in Soil and Water using the GLpH pH Meter
TM221	Determination of Acid Extractable Sulphate in Soils by ICP OES
TM243	Mixed Anions In Soils By Kone
TM259	Determination of Phenols in Waters and Leachates by HPLC
TM410	Determination of Coronene in soils by GCMS

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Laboratories (UK) Limited Hawarden (Method codes TM).

CERTIFICATE OF ANALYSIS

SDG: 231213-76 **Report Number:** 715110 **Superseded Report:**
Client Ref.: GWPR5717 **Location:** 10 Lyndhurst Road, Hampstead, London NW3 5PX

Test Completion Dates

Lab Sample No(s)	29096850	29096863	29096855	29096865	29096859	29096867
Customer Sample Ref.	WS1	WS1	WS2	WS2	WS3	WS3
AGS Ref.						
Depth	0.20 - 0.20	0.80 - 0.80	0.50 - 0.50	2.50 - 2.50	0.20 - 0.20	4.50 - 4.50
Type	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)	Soil/Solid (S)
Ammoniacal N as NH4 in 2:1 extract		15-Dec-2023				14-Dec-2023
ANC at pH4 and ANC at pH 6	20-Dec-2023					
Anions by Kone (soil)	19-Dec-2023	19-Dec-2023	19-Dec-2023	19-Dec-2023	19-Dec-2023	15-Dec-2023
Anions by Kone (w)	19-Dec-2023					
Asbestos ID in Solid Samples	18-Dec-2023		18-Dec-2023		18-Dec-2023	
Boron Water Soluble	19-Dec-2023		19-Dec-2023		19-Dec-2023	
CEN 10:1 Leachate (1 Stage)	14-Dec-2023					
CEN Readings	20-Dec-2023					
Coronene	18-Dec-2023					
Cyanide Comp/Free/Total/Thiocyanate	15-Dec-2023		18-Dec-2023		15-Dec-2023	
Dissolved Metals by ICP-MS	18-Dec-2023					
Dissolved Organic/Inorganic Carbon	20-Dec-2023					
EPH by GCxGC-FID	15-Dec-2023					
EPH CWG GC (S)	15-Dec-2023		15-Dec-2023			
Fluoride	19-Dec-2023					
GRO by GC-FID (S)	15-Dec-2023		15-Dec-2023			
Hexavalent Chromium (s)	16-Dec-2023		16-Dec-2023		16-Dec-2023	
Loss on Ignition in soils	15-Dec-2023					
Magnesium (BRE)		18-Dec-2023				15-Dec-2023
Mercury Dissolved	20-Dec-2023					
Metals in solid samples by OES	18-Dec-2023		19-Dec-2023		18-Dec-2023	
Moisture at 105C	13-Dec-2023					
NO3, NO2 and TON by KONE (s)		19-Dec-2023				15-Dec-2023
PAH 16 & 17 Calc	18-Dec-2023					
PAH by GCMS	18-Dec-2023		18-Dec-2023		20-Dec-2023	
PCBs by GCMS	18-Dec-2023					
pH	19-Dec-2023	19-Dec-2023	19-Dec-2023	19-Dec-2023	19-Dec-2023	19-Dec-2023
pH Value of Filtered Water	20-Dec-2023					
Phenols by HPLC (S)	18-Dec-2023		18-Dec-2023		18-Dec-2023	
Phenols by HPLC (W)	20-Dec-2023					
Sample description	13-Dec-2023	14-Dec-2023	14-Dec-2023	14-Dec-2023	13-Dec-2023	13-Dec-2023
Total Organic Carbon	19-Dec-2023		19-Dec-2023		18-Dec-2023	
Total Sulphate		19-Dec-2023				15-Dec-2023
Total Sulphur		19-Dec-2023				15-Dec-2023
TPH CWG GC (S)	15-Dec-2023		15-Dec-2023			
VOC MS (S)	19-Dec-2023		19-Dec-2023			

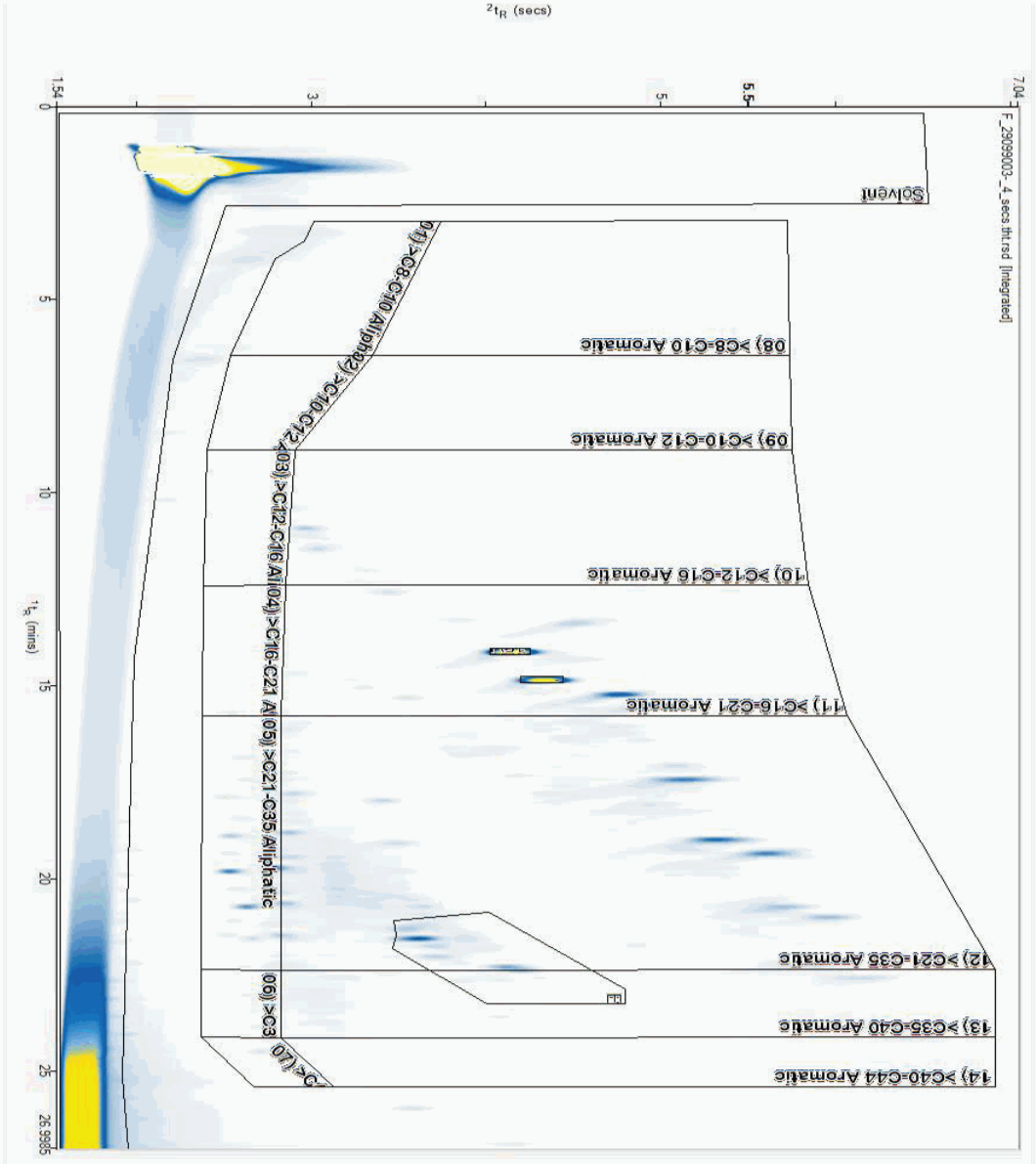
CERTIFICATE OF ANALYSIS

SDG: 231213-76 **Report Number:** 715110 **Superseded Report:**
Client Ref.: GWPR5717 **Location:** 10 Lyndhurst Road, Hampstead, London NW3 5PX

Chromatogram

Analysis: EPH CWG GC (S) **Sample No :** 29099003 **Depth :** 0.20 - 0.20
Sample ID : WS1

```
   ChromSpace LIMS export
  Current batch
Sample Identity:  F_29099003-_4_secs.tht
Date Acquired   :  14/12/23 10:43:46
Units           :  ppm
Dilution        :  0
CF              :
Multiplier      :
```



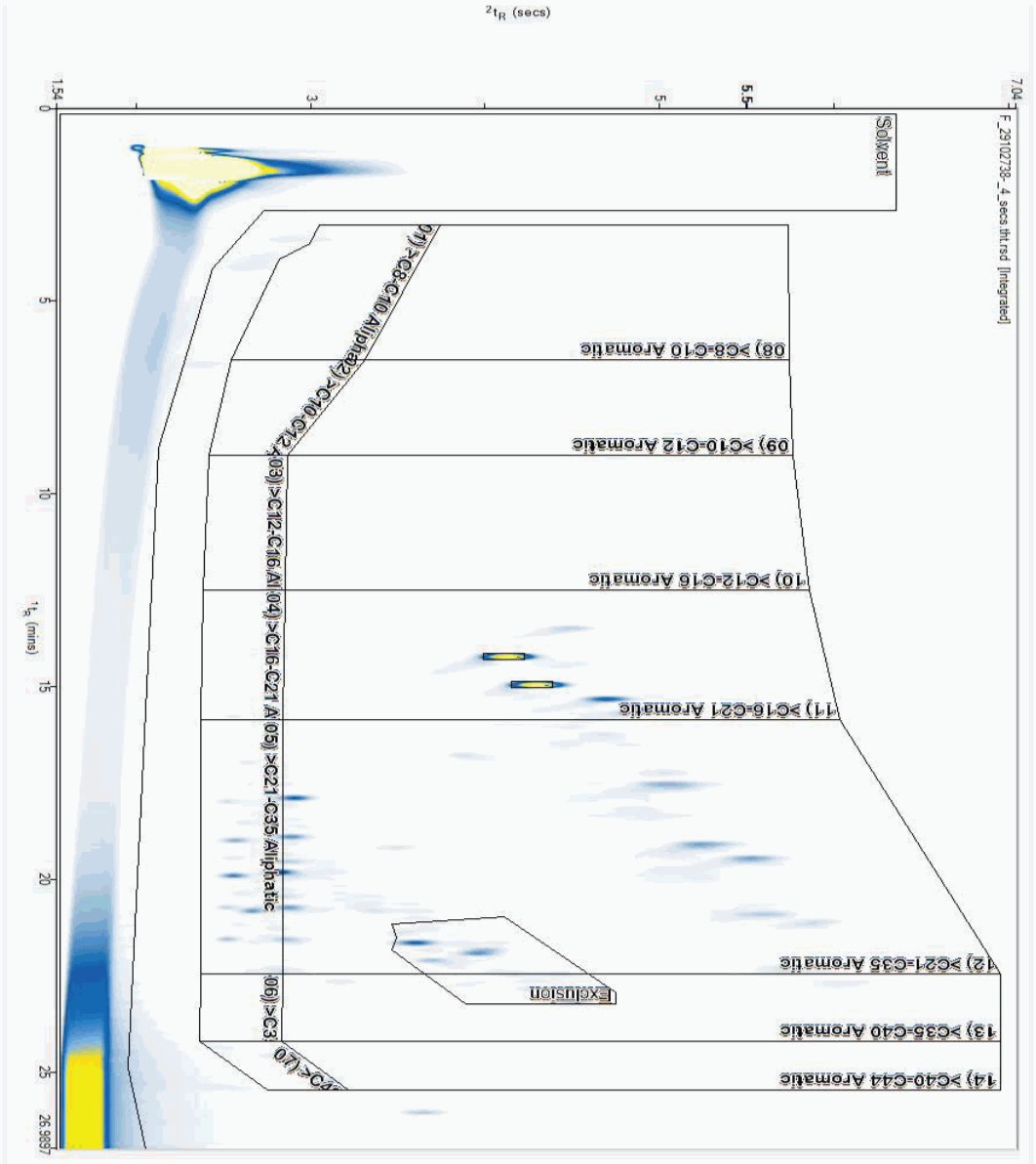
CERTIFICATE OF ANALYSIS

SDG: 231213-76 **Report Number:** 715110 **Superseded Report:**
Client Ref.: GWPR5717 **Location:** 10 Lyndhurst Road, Hampstead, London NW3 5PX

Chromatogram

Analysis: EPH CWG GC (S) **Sample No :** 29102738 **Depth :** 0.50 - 0.50
Sample ID : WS2

```
   ChromSpace LIMS export
  Current batch
Sample Identity:  F_29102738-_4_secs.tht
Date Acquired   :  14/12/23 09:07:21
Units           :  ppm
Dilution        :  0
CF              :
Multiplier      :
```



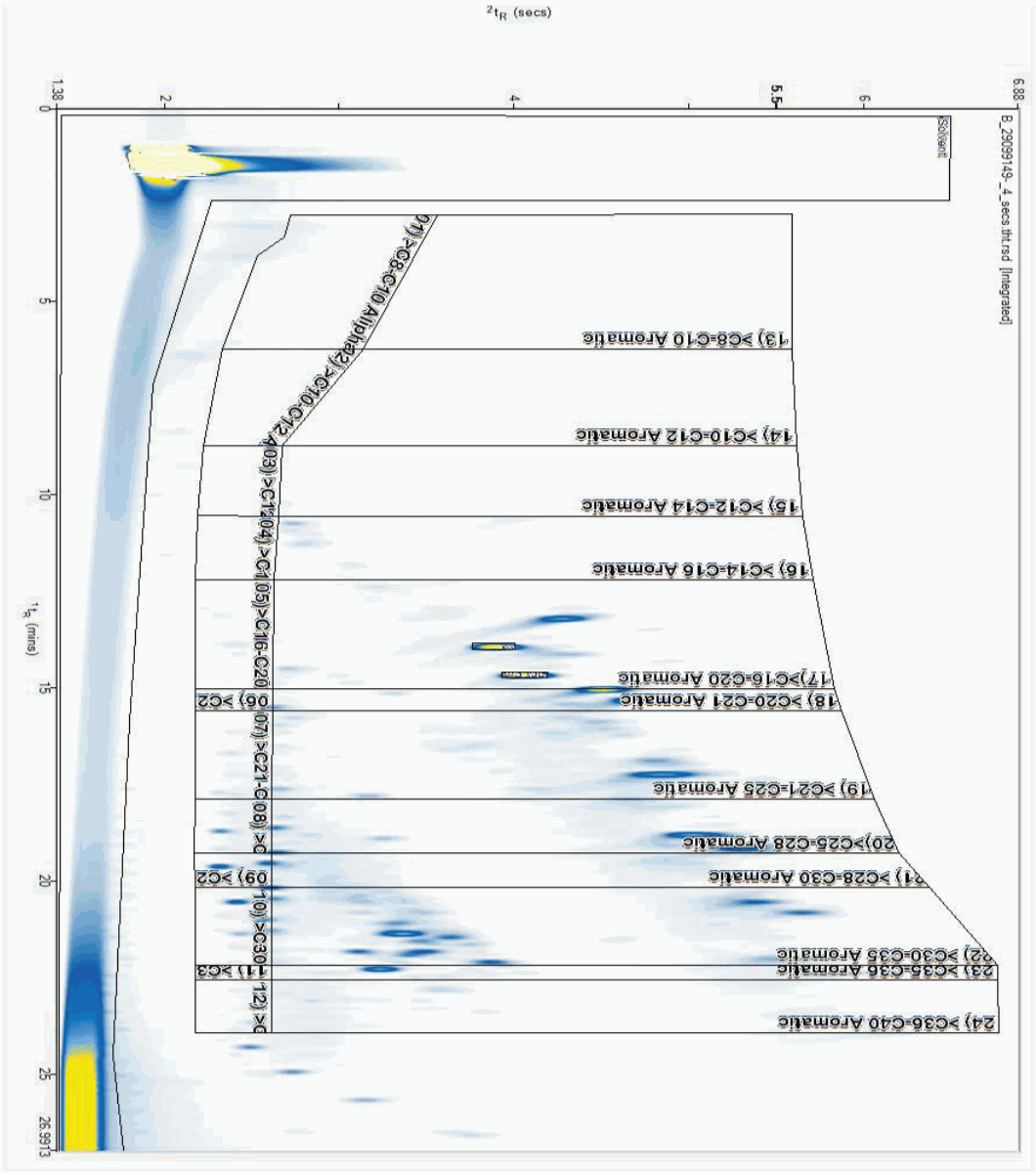
CERTIFICATE OF ANALYSIS

SDG: 231213-76 **Report Number:** 715110 **Superseded Report:**
Client Ref.: GWPR5717 **Location:** 10 Lyndhurst Road, Hampstead, London NW3 5PX

Chromatogram

Analysis: EPH by GCxGC-FID **Sample No :** 29099149 **Depth :** 0.20 - 0.20
Sample ID : WS1

```
   ChromSpace LIMS export
  Current batch
Sample Identity:  B_29099149-_4_secs.tht
Date Acquired   :  15/12/23 12:05:19
Units           :  ppm
Dilution        :  0
CF              :
Multiplier      :
```

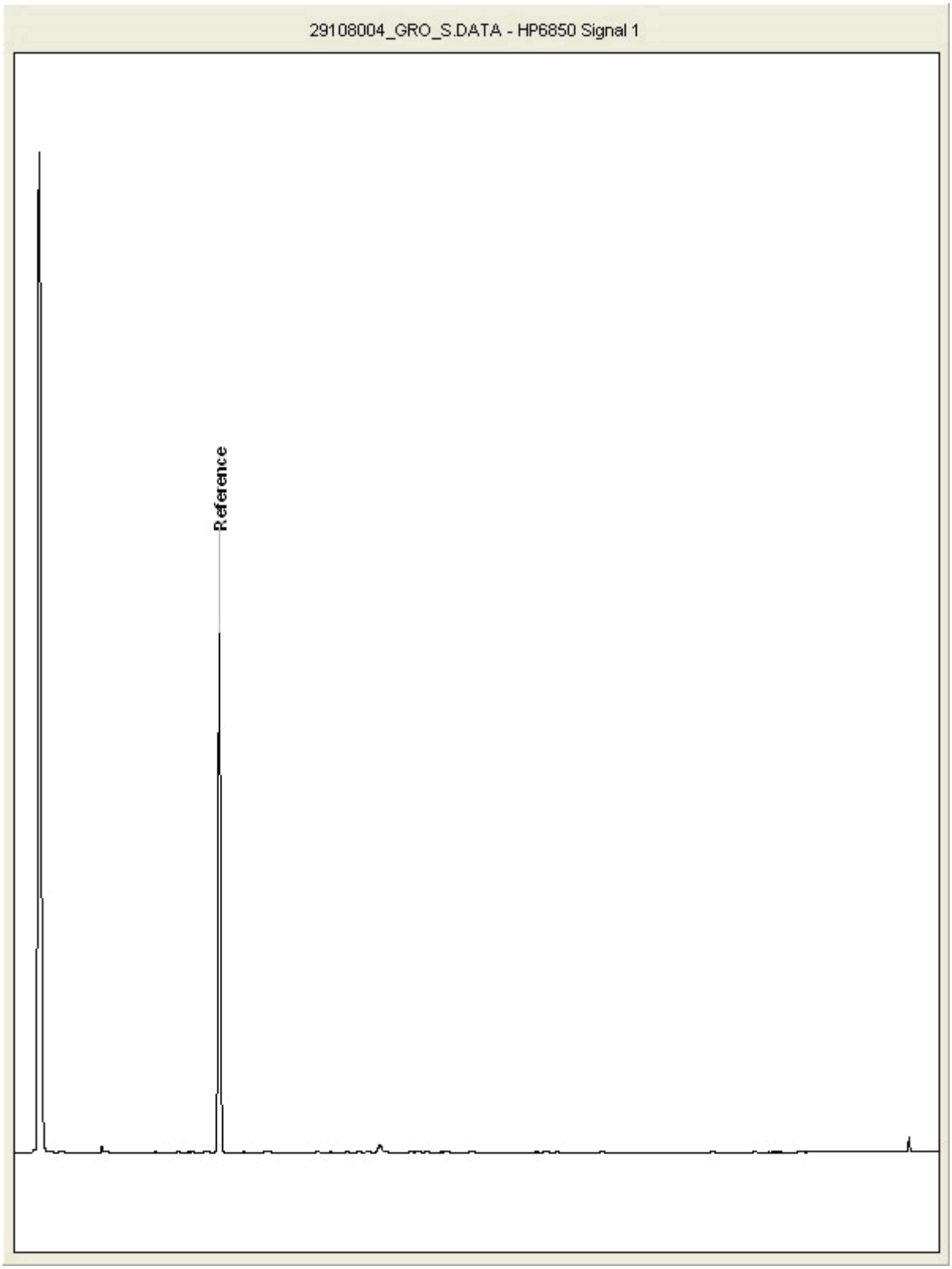


CERTIFICATE OF ANALYSIS

SDG: 231213-76 **Report Number:** 715110 **Superseded Report:**
Client Ref.: GWPR5717 **Location:** 10 Lyndhurst Road, Hampstead, London NW3 5PX

Chromatogram

Analysis: GRO by GC-FID (S) **Sample No :** 29108004 **Depth :** 0.20 - 0.20
Sample ID : WS1

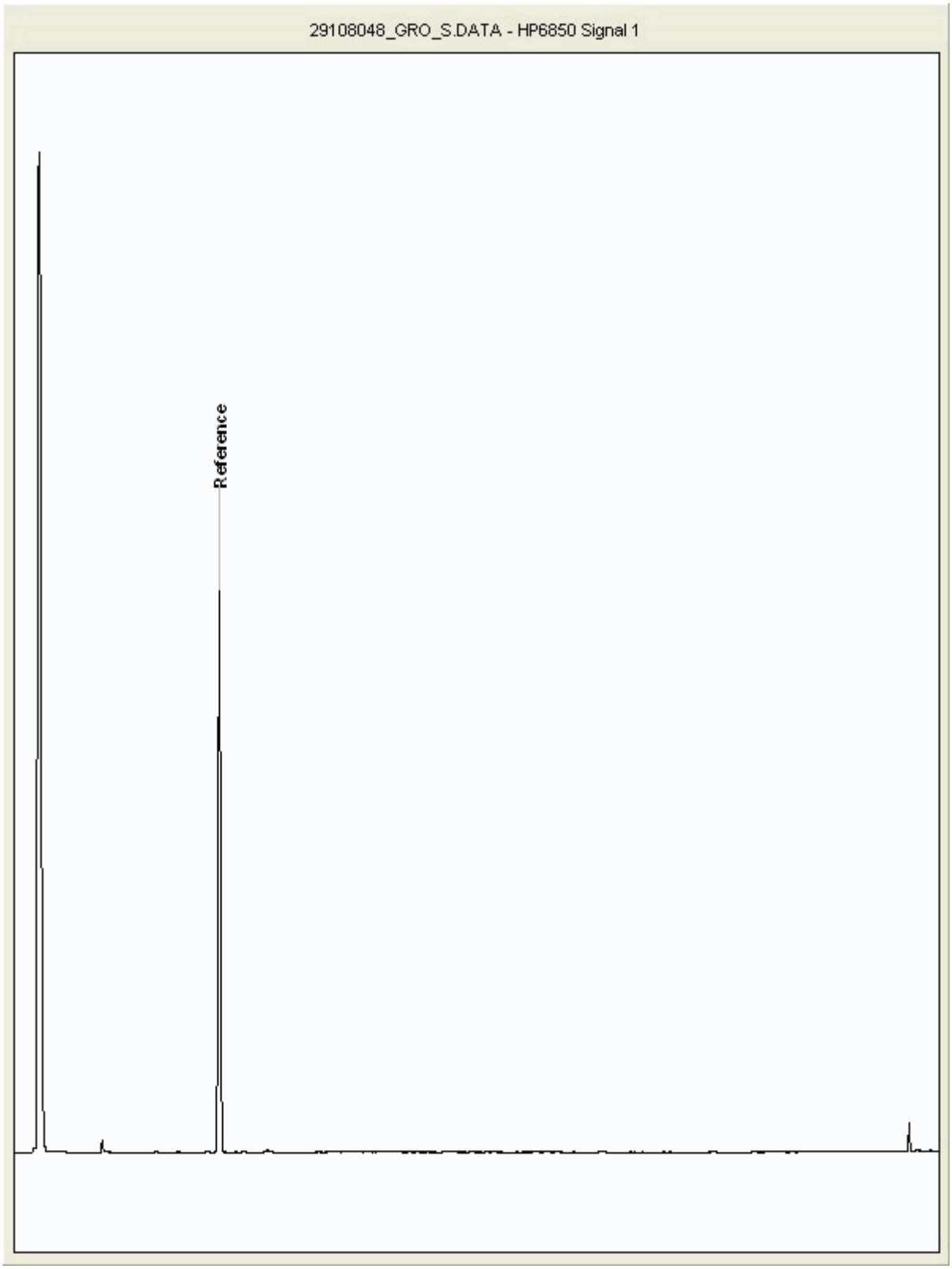


CERTIFICATE OF ANALYSIS

SDG: 231213-76 **Report Number:** 715110 **Superseded Report:**
Client Ref.: GWPR5717 **Location:** 10 Lyndhurst Road, Hampstead, London NW3 5PX

Chromatogram

Analysis: GRO by GC-FID (S) **Sample No :** 29108048 **Depth :** 0.50 - 0.50
Sample ID : WS2



Appendix

General

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 15 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of 15 days after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

10. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. For dried and crushed preparations of soils volatile loss may occur e.g volatile mercury

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17 Data retention. All records, communications and reports pertaining to the analysis are archived for seven years from the date of issue of the final report.

18. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as “mixed hydrocarbons”. Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

19. **Sample Deviations**

If a sample is classed as deviated then the associated results may be compromised.

1	**Container with Headspace provided for volatiles analysis**
2	**Incorrect container received**
3	**Deviation from method**
4	**Matrix interference**
♦	**Sample holding time exceeded in laboratory**
@	**Sample holding time exceeded due to late arrival of instructions or samples**
§	**Sampled on date not provided**

20. **Asbestos**

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2021), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials and soils are obtained from supplied bulk materials andd soils which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2021).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining.

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

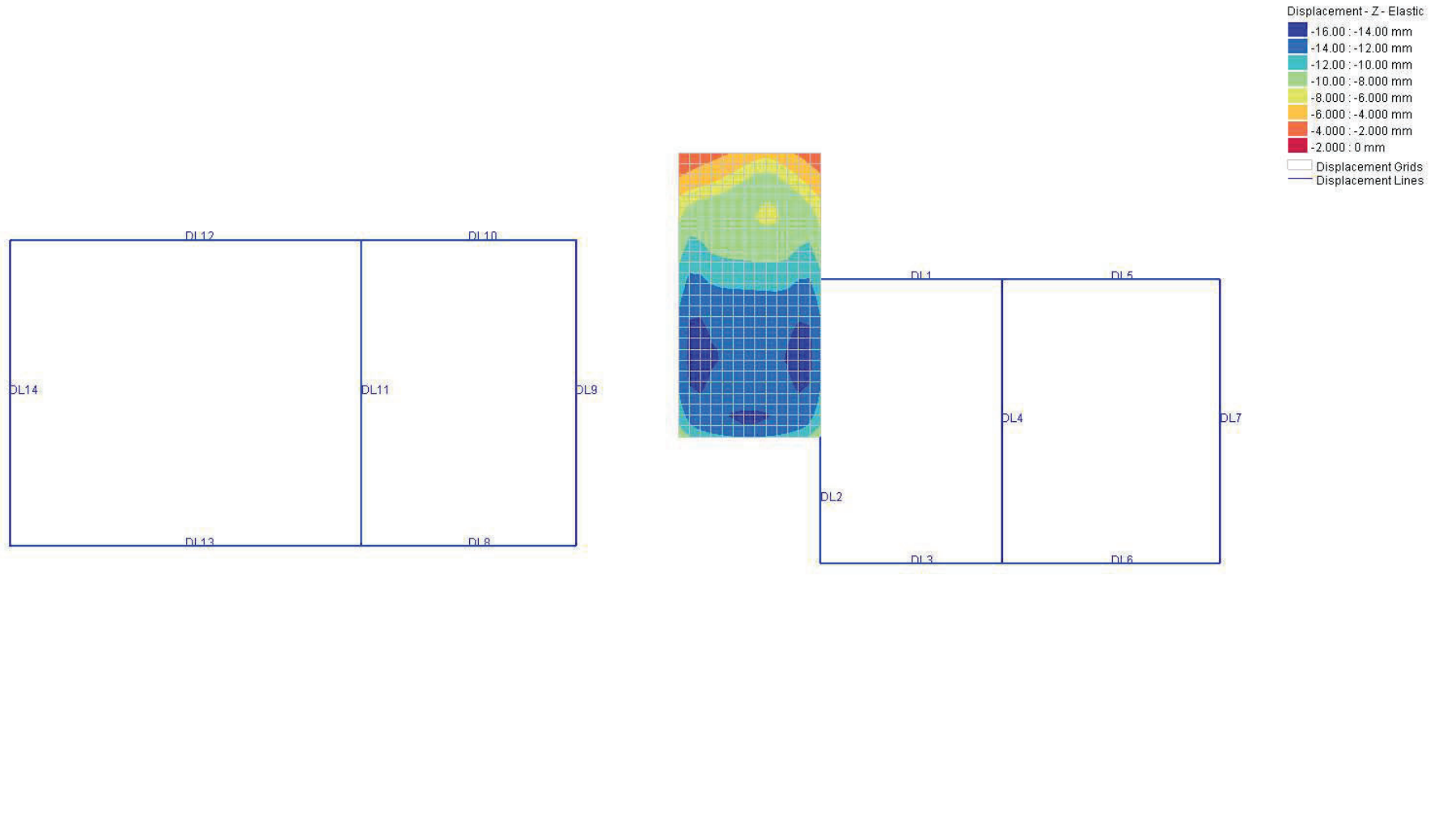
Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

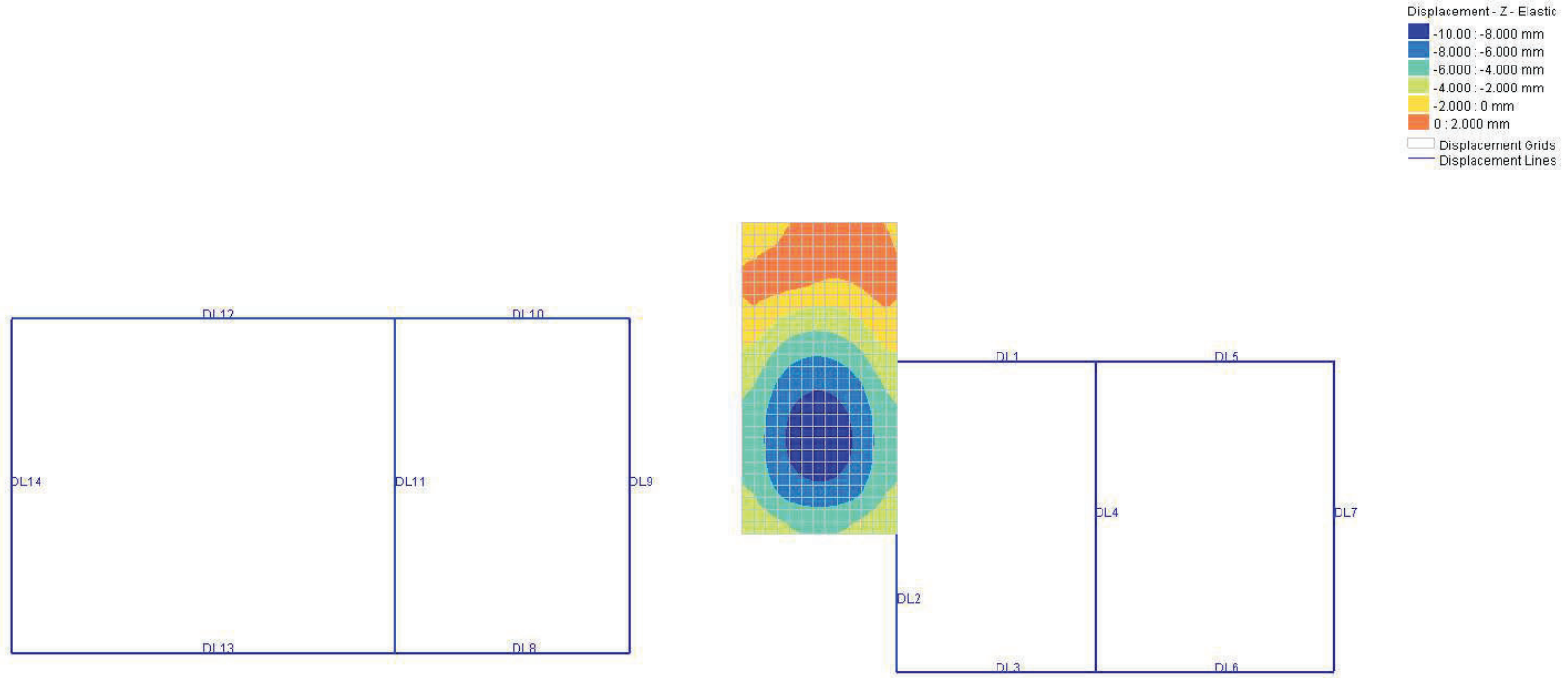
The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

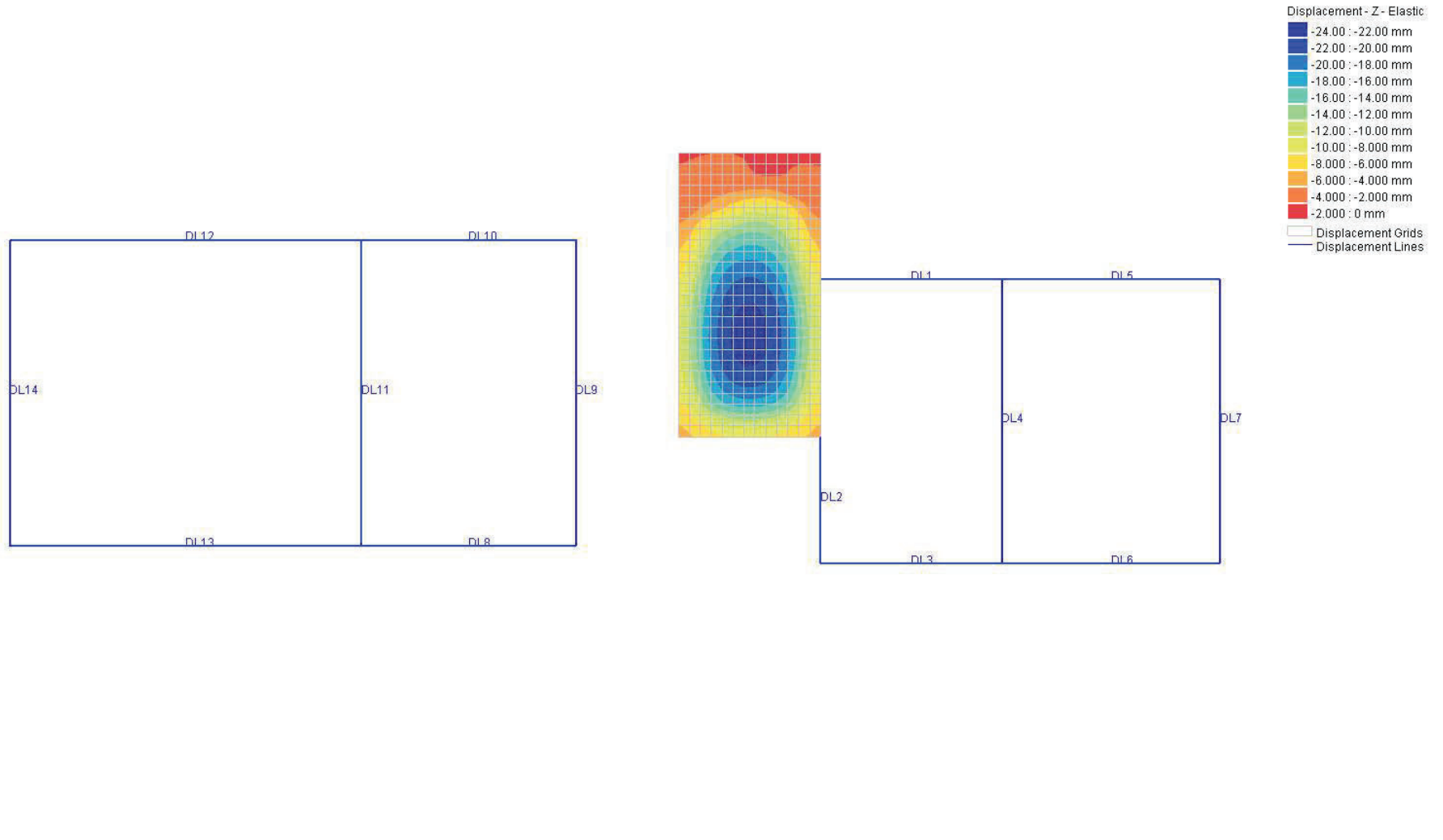
APPENDIX G: Settlement and Heave Analysis Modelling

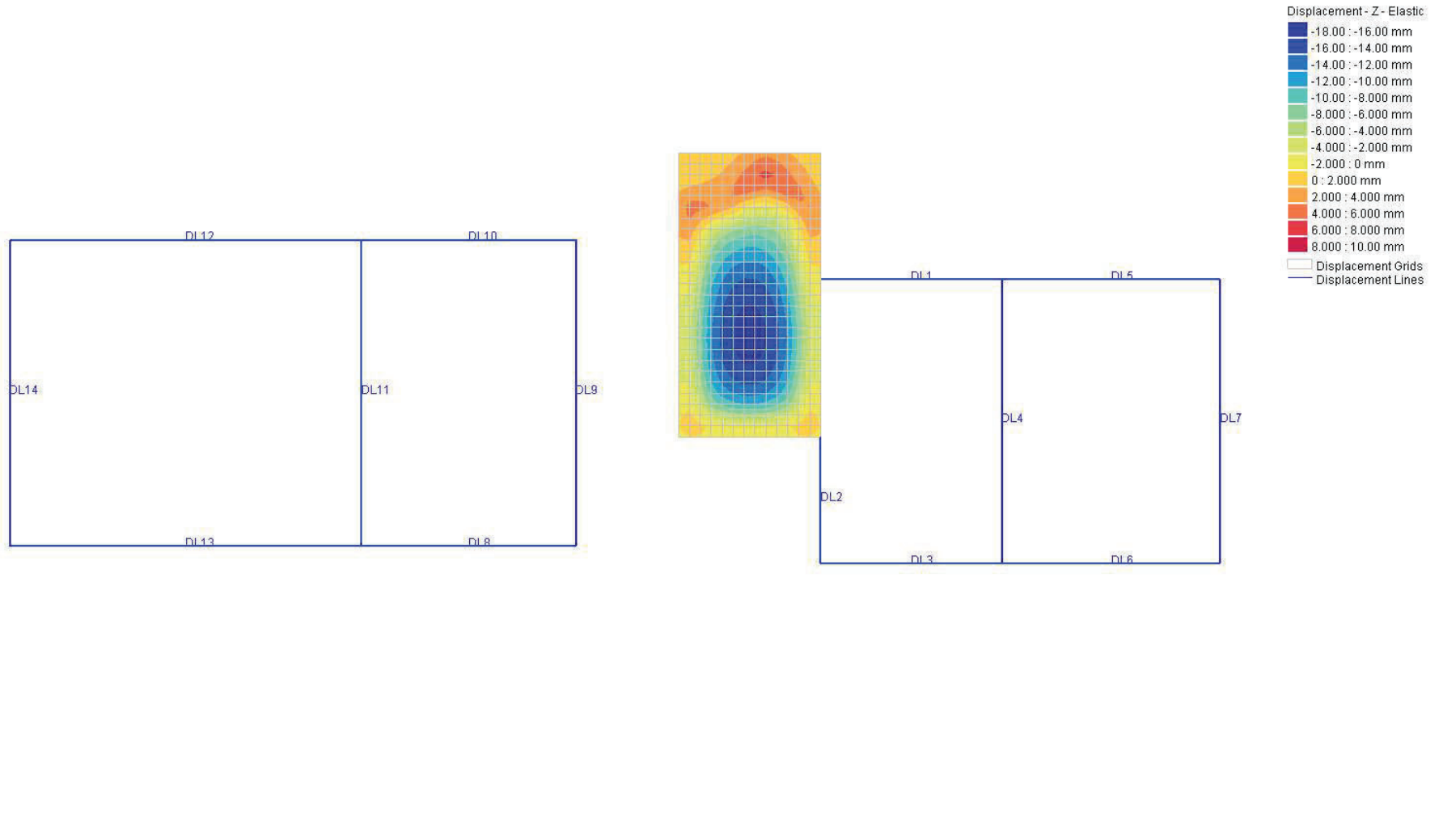
2 The Long Barn, Norton Farm, Selborne Road, Alton, Hampshire GU34 3NB
0333 600 1221 enquiries@groundandwater.co.uk **groundandwater.co.uk**

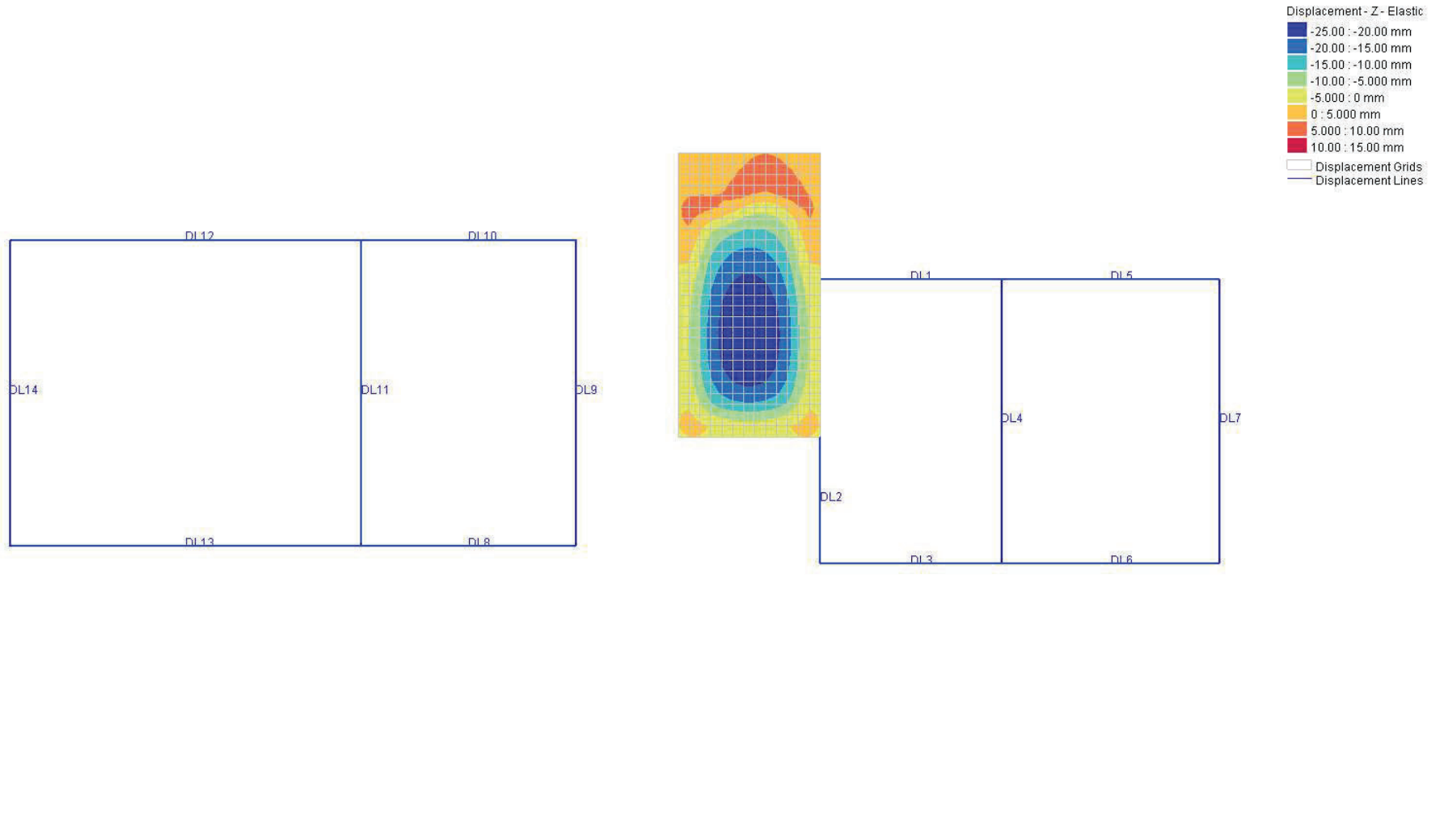
Registered Office: Kineton House, 31 Horse Fair, Banbury, Oxfordshire OX16 0AE Registered in England No. 07032001


Displacement - Z - Elastic
-16.00 : -14.00 mm
-14.00 : -12.00 mm
-12.00 : -10.00 mm
-10.00 : -8.000 mm
-8.000 : -6.000 mm
-6.000 : -4.000 mm
-4.000 : -2.000 mm
-2.000 : 0 mm
Displacement Grids
Displacement Lines
DL12
DL10
DL14
DL11
DL9
DL13
DL8
DL1
DL5
DL4
DL7
DL2
DL3
DL6


Displacement - Z - Elastic
-10.00 : -8.000 mm
-8.000 : -6.000 mm
-6.000 : -4.000 mm
-4.000 : -2.000 mm
-2.000 : 0 mm
0 : 2.000 mm
Displacement Grids
Displacement Lines
DL12
DL10
DL14
DL11
DL9
DL13
DL8
DL1
DL5
DL4
DL7
DL2
DL3
DL6
y
z
x


Displacement - Z - Elastic
-24.00 : -22.00 mm
-22.00 : -20.00 mm
-20.00 : -18.00 mm
-18.00 : -16.00 mm
-16.00 : -14.00 mm
-14.00 : -12.00 mm
-12.00 : -10.00 mm
-10.00 : -8.000 mm
-8.000 : -6.000 mm
-6.000 : -4.000 mm
-4.000 : -2.000 mm
-2.000 : 0 mm
Displacement Grids
Displacement Lines
DL12
DL10
DL14
DL11
DL9
DL13
DL8
DL1
DL5
DL4
DL7
DL2
DL3
DL6
Y
Z
X

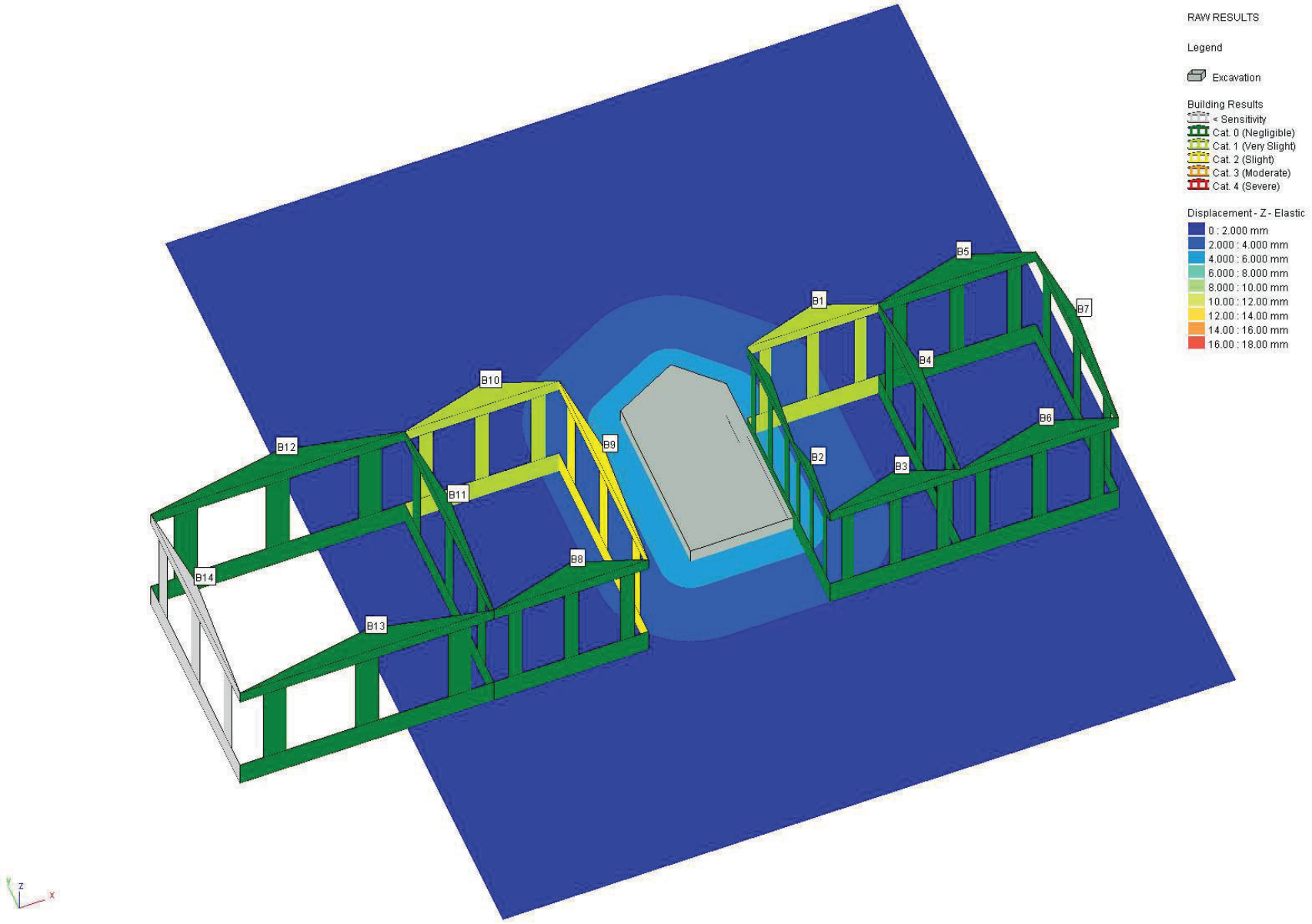

Displacement - Z - Elastic
-18.00 : -16.00 mm
-16.00 : -14.00 mm
-14.00 : -12.00 mm
-12.00 : -10.00 mm
-10.00 : -8.000 mm
-8.000 : -6.000 mm
-6.000 : -4.000 mm
-4.000 : -2.000 mm
-2.000 : 0 mm
0 : 2.000 mm
2.000 : 4.000 mm
4.000 : 6.000 mm
6.000 : 8.000 mm
8.000 : 10.00 mm
Displacement Grids
Displacement Lines
DL12
DL10
DL14
DL11
DL9
DL13
DL8
DL1
DL5
DL4
DL7
DL2
DL3
DL6
Y
Z
X


Displacement - Z - Elastic
-25.00 : -20.00 mm
-20.00 : -15.00 mm
-15.00 : -10.00 mm
-10.00 : -5.000 mm
-5.000 : 0 mm
0 : 5.000 mm
5.000 : 10.00 mm
10.00 : 15.00 mm
Displacement Grids
Displacement Lines
DL12
DL10
DL14
DL11
DL9
DL13
DL8
DL1
DL5
DL4
DL7
DL2
DL3
DL6

APPENDIX H: Ground Movement Analysis and Damage Categorization Modelling

2 The Long Barn, Norton Farm, Selborne Road, Alton, Hampshire GU34 3NB
0333 600 1221 enquiries@groundandwater.co.uk **groundandwater.co.uk**

Registered Office: Kineton House, 31 Horse Fair, Banbury, Oxfordshire OX16 0AE Registered in England No. 07032001


RAW RESULTS
Legend
Excavation
Building Results
< Sensitivity
Cat. 0 (Negligible)
Cat. 1 (Very Slight)
Cat. 2 (Slight)
Cat. 3 (Moderate)
Cat. 4 (Severe)
Displacement - Z - Elastic
0 : 2.000 mm
2.000 : 4.000 mm
4.000 : 6.000 mm
6.000 : 8.000 mm
8.000 : 10.00 mm
10.00 : 12.00 mm
12.00 : 14.00 mm
14.00 : 16.00 mm
16.00 : 18.00 mm
B1
B2
B3
B4
B5
B6
B7
B8
B9
B10
B11
B12
B13
B14

Oasys

GROUND AND WATER LIMITED

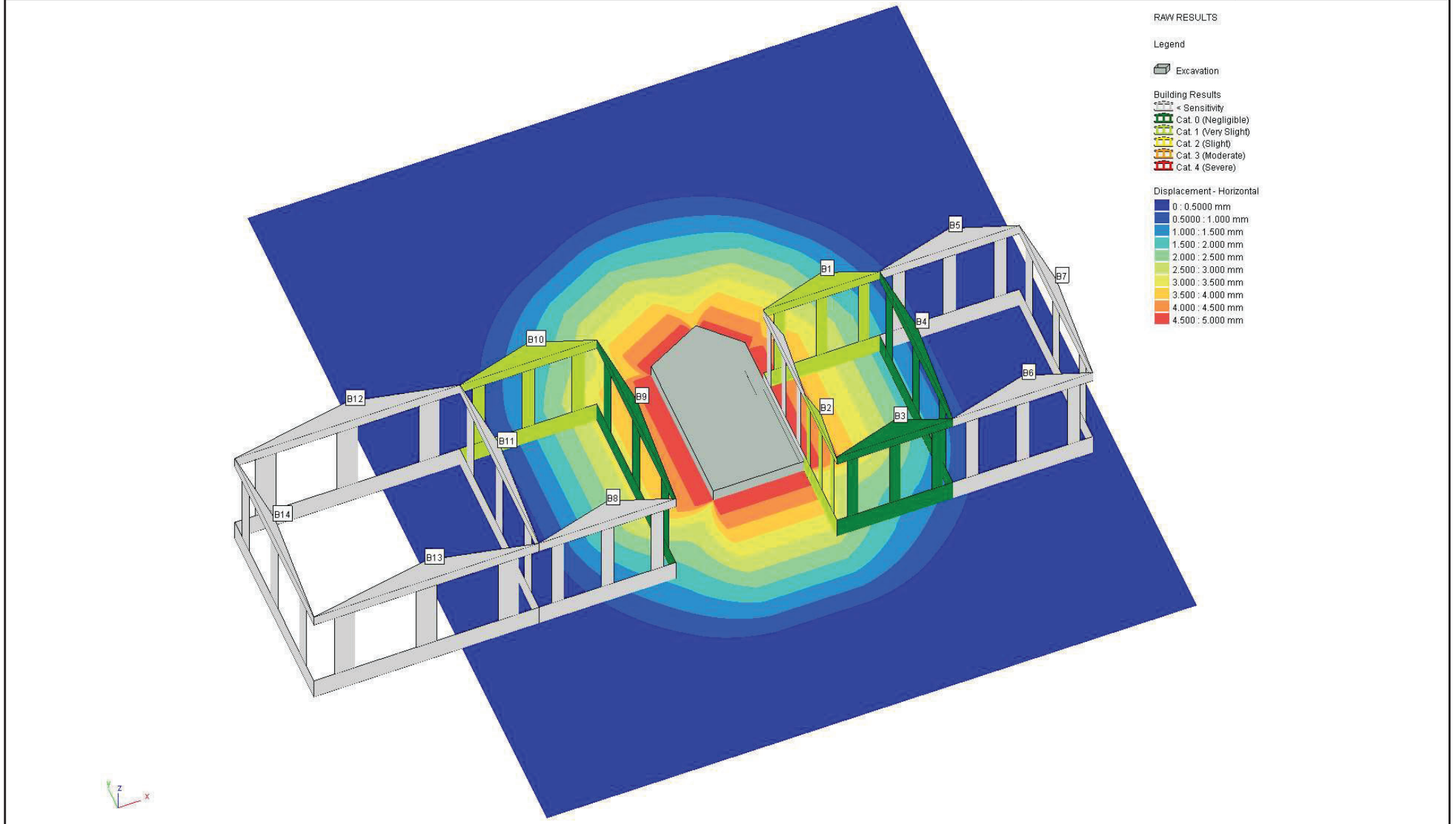
10 Lyndhurst Road, Hampstead, London NW3 5PX

Model 1 Combined Segments and Horizontal Contour Plot

Job No.	Sheet No.	Rev.
GWPR5717		

Drg. Ref.

Made by	Date	Checked	Date
RT	19-Jan-2024		



APPENDIX I: Waste Hazard Assessment

2 The Long Barn, Norton Farm, Selborne Road, Alton, Hampshire GU34 3NB
0333 600 1221 enquiries@groundandwater.co.uk **groundandwater.co.uk**

Registered Office: Kineton House, 31 Horse Fair, Banbury, Oxfordshire OX16 0AE Registered in England No. 07032001

HazWasteOnline™

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.

LA4WB-ZJ0QB-GUJKX

Job name

231213-76

Description/Comments

Waste hazard assessment

Project

GWPR5717

Site

10 Lyndhurst Road, Hampstead, London NW3 5PX

Classified by

Name:
Robert Terrell
Company:
Ground and Water
Date:
15 Jan 2024 14:36 GMT
Telephone:
0333 600 1221

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: -

Course	Date
Hazardous Waste Classification	-

Purpose of classification

2 - Material Characterisation

Address of the waste

10 Lyndhurst Road, Hampstead, London NW3 5PX **Post Code** NW3 5PX

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Redevelopment

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

Waste created during excavaions

Description of the waste

Made Ground, Claygate Member, London Clay

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	WS1-051223-0.20-0.20		Hazardous	HP 14	3
2	WS1-051223-0.80-0.80		Non Hazardous		6
3	WS2-051223-0.50-0.50		Non Hazardous		7
4	WS2-051223-2.50-2.50		Non Hazardous		10
5	WS3-051223-0.20-0.20		Non Hazardous		11
6	WS3-051223-4.50-4.50		Non Hazardous		13

Related documents

#	Name	Description
1	231213-76.hwol	ALS Hawarden .hwol file used to populate the Job
2	Ground and Water V2 PA	waste stream template used to create this Job

Report

Created by: Robert Terrell

Created date: 15 Jan 2024 14:36 GMT

Classification of sample: WS1-051223-0.20-0.20

Hazardous Waste
Classified as **17 05 03 ***
in the List of Waste

Sample details

Sample name:
WS1-051223-0.20-0.20
Moisture content:
19%
(no correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 14: Ecotoxic "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Hazard Statements hit:

Aquatic Chronic 1; H410 "Very toxic to aquatic life with long lasting effects."

Because of determinands:

lead compounds with the exception of those specified elsewhere in this Annex: (Note 1 conc.: 0.295%)
zinc oxide: (compound conc.: 0.139%)

Determinands

Moisture content: 19% No 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	pH			PH		8.2 pH		8.2 pH	8.2 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		**<LOD**
3	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		23.1 mg/kg	1.32	30.5 mg/kg	0.00305 %		
4	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		**<LOD**
5	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.942 mg/kg	1.285	1.211 mg/kg	0.0000942 %		
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		92.2 mg/kg	1.126	103.807 mg/kg	0.0104 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	2950 mg/kg		2950 mg/kg	0.295 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1.1 mg/kg	1.353	1.489 mg/kg	0.000149 %		
9	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		34 mg/kg	1.579	53.703 mg/kg	0.00537 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		**<LOD**

#		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
11		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		55.7	mg/kg	1.785	99.435	mg/kg	0.00994 %		
12		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		1120	mg/kg	1.245	1394.08	mg/kg	0.139 %		
13		phenol	604-001-00-2	203-632-7	108-95-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
14		naphthalene	601-052-00-2	202-049-5	91-20-3		0.0164	mg/kg		0.0164	mg/kg	0.00000164 %		
15		acenaphthylene		205-917-1	208-96-8		0.0932	mg/kg		0.0932	mg/kg	0.00000932 %		
16		acenaphthene		201-469-6	83-32-9		0.0231	mg/kg		0.0231	mg/kg	0.00000231 %		
17		fluorene		201-695-5	86-73-7		0.0441	mg/kg		0.0441	mg/kg	0.00000441 %		
18		phenanthrene		201-581-5	85-01-8		0.824	mg/kg		0.824	mg/kg	0.0000824 %		
19		anthracene		204-371-1	120-12-7		0.18	mg/kg		0.18	mg/kg	0.000018 %		
20		fluoranthene		205-912-4	206-44-0		2.06	mg/kg		2.06	mg/kg	0.000206 %		
21		pyrene		204-927-3	129-00-0		1.75	mg/kg		1.75	mg/kg	0.000175 %		
22		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.01	mg/kg		1.01	mg/kg	0.000101 %		
23		chrysene	601-048-00-0	205-923-4	218-01-9		0.903	mg/kg		0.903	mg/kg	0.0000903 %		
24		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		1.35	mg/kg		1.35	mg/kg	0.000135 %		
25		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.47	mg/kg		0.47	mg/kg	0.000047 %		
26		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		1.09	mg/kg		1.09	mg/kg	0.000109 %		
27		indeno[123-cd]pyrene		205-893-2	193-39-5		0.698	mg/kg		0.698	mg/kg	0.0000698 %		
28		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.115	mg/kg		0.115	mg/kg	0.0000115 %		
29		benzo[ghi]perylene		205-883-8	191-24-2		0.687	mg/kg		0.687	mg/kg	0.0000687 %		
30		benzene	601-020-00-8	200-753-7	71-43-2		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
31		toluene	601-021-00-3	203-625-9	108-88-3		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
32		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
33		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	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]		<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<LOD
34		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		1.7	mg/kg	1.923	3.269	mg/kg	0.000327 %		
35		coronene		205-881-7	191-07-1		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
36		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
37		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		0.0245	mg/kg		0.0245	mg/kg	0.00000245 %		

#		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							
38		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }	215-160-9	1308-38-9		34.7 mg/kg	1.462	50.716 mg/kg	0.00507 %		
								Total:	0.471 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	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 2: Oxidizing "waste which may, generally by providing oxygen, cause or contribute to the combustion of other materials"
Force this Hazardous property to non hazardous because Unlikely to be oxidising below 1000mg/kg

Hazard Statements hit:

Ox. Sol. 1; H271 "May cause fire or explosion; strong oxidiser."

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00032%)

Classification of sample: WS1-051223-0.80-0.80

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

Sample details

Sample name:
WS1-051223-0.80-0.80
Moisture content:
21%
(no 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% No Moisture Correction applied (MC)

#		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							
1	•	pH		PH		7.83 pH		7.83 pH	7.83 pH		
								Total:	0%		

Key

	User supplied data
•	Determinand defined or amended by HazWasteOnline (see Appendix A)

Classification of sample: WS2-051223-0.50-0.50

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

Sample details

Sample name:
WS2-051223-0.50-0.50
Moisture content:
15%
(no 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: 15% No 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	pH			PH		7.6 pH		7.6 pH	7.6 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		**<LOD**
3	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		16.4 mg/kg	1.32	21.653 mg/kg	0.00217 %		
4	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		**<LOD**
5	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.263 mg/kg	1.285	0.338 mg/kg	0.0000263 %		
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		43.2 mg/kg	1.126	48.638 mg/kg	0.00486 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	687 mg/kg		687 mg/kg	0.0687 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.387 mg/kg	1.353	0.524 mg/kg	0.0000524 %		
9	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		18.9 mg/kg	1.579	29.853 mg/kg	0.00299 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		**<LOD**
11	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		39.6 mg/kg	1.785	70.693 mg/kg	0.00707 %		
12	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		301 mg/kg	1.245	374.659 mg/kg	0.0375 %		
13	phenol	604-001-00-2	203-632-7	108-95-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		**<LOD**
14	naphthalene	601-052-00-2	202-049-5	91-20-3		0.109 mg/kg		0.109 mg/kg	0.0000109 %		

#		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									
15	●	acenaphthylene				0.0872	mg/kg		0.0872	mg/kg	0.00000872 %		
			205-917-1	208-96-8									
16	●	acenaphthene				0.0982	mg/kg		0.0982	mg/kg	0.00000982 %		
			201-469-6	83-32-9									
17	●	fluorene				0.106	mg/kg		0.106	mg/kg	0.0000106 %		
			201-695-5	86-73-7									
18	●	phenanthrene				2.15	mg/kg		2.15	mg/kg	0.000215 %		
			201-581-5	85-01-8									
19	●	anthracene				0.355	mg/kg		0.355	mg/kg	0.0000355 %		
			204-371-1	120-12-7									
20	●	fluoranthene				3.96	mg/kg		3.96	mg/kg	0.000396 %		
			205-912-4	206-44-0									
21	●	pyrene				3.25	mg/kg		3.25	mg/kg	0.000325 %		
			204-927-3	129-00-0									
22		benzo[a]anthracene				1.66	mg/kg		1.66	mg/kg	0.000166 %		
		601-033-00-9	200-280-6	56-55-3									
23		chrysene				1.59	mg/kg		1.59	mg/kg	0.000159 %		
		601-048-00-0	205-923-4	218-01-9									
24		benzo[b]fluoranthene				1.9	mg/kg		1.9	mg/kg	0.00019 %		
		601-034-00-4	205-911-9	205-99-2									
25		benzo[k]fluoranthene				0.781	mg/kg		0.781	mg/kg	0.0000781 %		
		601-036-00-5	205-916-6	207-08-9									
26		benzo[a]pyrene; benzo[def]chrysene				1.59	mg/kg		1.59	mg/kg	0.000159 %		
		601-032-00-3	200-028-5	50-32-8									
27	●	indeno[123-cd]pyrene				0.866	mg/kg		0.866	mg/kg	0.0000866 %		
			205-893-2	193-39-5									
28		dibenz[a,h]anthracene				0.117	mg/kg		0.117	mg/kg	0.0000117 %		
		601-041-00-2	200-181-8	53-70-3									
29	●	benzo[ghi]perylene				0.919	mg/kg		0.919	mg/kg	0.0000919 %		
			205-883-8	191-24-2									
30		benzene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
31		toluene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
32	●	ethylbenzene				<0.02	mg/kg		<0.02	mg/kg	<0.000002 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
33		o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]				<0.08	mg/kg		<0.08	mg/kg	<0.000008 %		<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]									
34		chromium in chromium(VI) compounds { chromium(VI) oxide }				0.982	mg/kg	1.923	1.888	mg/kg	0.000189 %		
		024-001-00-0	215-607-8	1333-82-0									
35		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
36		chromium in chromium(III) compounds { ● chromium(III) oxide (worst case) }				18.718	mg/kg	1.462	27.357	mg/kg	0.00274 %		
			215-160-9	1308-38-9									
										Total:	0.129 %		

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 2: Oxidizing "waste which may, generally by providing oxygen, cause or contribute to the combustion of other materials"
Force this Hazardous property to non hazardous because Unlikely to be oxidising below 1000mg/kg

Hazard Statements hit:

Ox. Sol. 1; H271 "May cause fire or explosion; strong oxidiser."

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00018%)

Classification of sample: WS2-051223-2.50-2.50

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

Sample details

Sample name:
WS2-051223-2.50-2.50

Moisture content:
18%
(no 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: 18% No Moisture Correction applied (MC)

#		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							
1	•	pH		PH		7.97 pH		7.97 pH	7.97 pH		
								Total:	0%		

Key

	User supplied data
•	Determinand defined or amended by HazWasteOnline (see Appendix A)

Classification of sample: WS3-051223-0.20-0.20

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

Sample details

Sample name:
WS3-051223-0.20-0.20
Moisture content:
18%
(no 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: 18% No 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	pH			PH		7.68 pH		7.68 pH	7.68 pH		
2	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				1.2 mg/kg	1.884	2.261 mg/kg	0.000226 %		
3	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		14.6 mg/kg	1.32	19.277 mg/kg	0.00193 %		
4	boron { diboron trioxide }	005-008-00-8	215-125-8	1303-86-2		<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		**<LOD**
5	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	0.67 mg/kg	1.285	0.861 mg/kg	0.000067 %		
6	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		41.8 mg/kg	1.126	47.062 mg/kg	0.00471 %		
7	lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	840 mg/kg		840 mg/kg	0.084 %		
8	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.44 mg/kg	1.353	0.596 mg/kg	0.0000596 %		
9	nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		15.4 mg/kg	1.579	24.324 mg/kg	0.00243 %		
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		**<LOD**
11	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		39.4 mg/kg	1.785	70.336 mg/kg	0.00703 %		
12	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		369 mg/kg	1.245	459.299 mg/kg	0.0459 %		
13	phenol	604-001-00-2	203-632-7	108-95-2		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		**<LOD**
14	naphthalene	601-052-00-2	202-049-5	91-20-3		0.019 mg/kg		0.019 mg/kg	0.0000019 %		

#		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							
15		acenaphthylene				0.0537 mg/kg		0.0537 mg/kg	0.00000537 %		
			205-917-1	208-96-8							
16		acenaphthene				0.0277 mg/kg		0.0277 mg/kg	0.00000277 %		
			201-469-6	83-32-9							
17		fluorene				0.0306 mg/kg		0.0306 mg/kg	0.00000306 %		
			201-695-5	86-73-7							
18		phenanthrene				0.664 mg/kg		0.664 mg/kg	0.0000664 %		
			201-581-5	85-01-8							
19		anthracene				0.117 mg/kg		0.117 mg/kg	0.0000117 %		
			204-371-1	120-12-7							
20		fluoranthene				1.64 mg/kg		1.64 mg/kg	0.000164 %		
			205-912-4	206-44-0							
21		pyrene				1.38 mg/kg		1.38 mg/kg	0.000138 %		
			204-927-3	129-00-0							
22		benzo[a]anthracene				0.764 mg/kg		0.764 mg/kg	0.0000764 %		
		601-033-00-9	200-280-6	56-55-3							
23		chrysene				0.777 mg/kg		0.777 mg/kg	0.0000777 %		
		601-048-00-0	205-923-4	218-01-9							
24		benzo[b]fluoranthene				0.949 mg/kg		0.949 mg/kg	0.0000949 %		
		601-034-00-4	205-911-9	205-99-2							
25		benzo[k]fluoranthene				0.362 mg/kg		0.362 mg/kg	0.0000362 %		
		601-036-00-5	205-916-6	207-08-9							
26		benzo[a]pyrene; benzo[def]chrysene				0.811 mg/kg		0.811 mg/kg	0.0000811 %		
		601-032-00-3	200-028-5	50-32-8							
27		indeno[123-cd]pyrene				0.482 mg/kg		0.482 mg/kg	0.0000482 %		
			205-893-2	193-39-5							
28		dibenz[a,h]anthracene				0.081 mg/kg		0.081 mg/kg	0.0000081 %		
		601-041-00-2	200-181-8	53-70-3							
29		benzo[ghi]perylene				0.482 mg/kg		0.482 mg/kg	0.0000482 %		
			205-883-8	191-24-2							
30		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.6 mg/kg	1.923	<1.154 mg/kg	<0.000115 %		**<LOD**
		024-001-00-0	215-607-8	1333-82-0							
31		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				23.7 mg/kg	1.462	34.639 mg/kg	0.00346 %		
			215-160-9	1308-38-9							
								Total:	0.151 %		

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

Classification of sample: WS3-051223-4.50-4.50

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

Sample details

Sample name:
WS3-051223-4.50-4.50

Moisture content:
19%
(no 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: 19% No Moisture Correction applied (MC)

#		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							
1	●	pH		PH		7.55 pH		7.55 pH	7.55 pH		
								Total:	0%		

Key

	User supplied data
●	Determinand defined or amended by HazWasteOnline (see Appendix A)

Appendix A: Classifier defined and non GB MCL determinands

pH (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

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

GB MCL index number: 006-007-00-5
Description/Comments: Conversion factor based on a worst case compound: sodium cyanide
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s):
20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

lead compounds with the exception of those specified elsewhere in this Annex

GB MCL index number: 082-001-00-6
Description/Comments: Least-worst case: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following MCL protocols, considers many simple lead compounds to be Carcinogenic category 2
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 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html. Review date 29/09/2015

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

- **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

- **coronene** (EC Number: 205-881-7, CAS Number: 191-07-1)

Description/Comments: Data from C&L Inventory Database; no entries in Registered Substances or Pesticides Properties databases; SDS: Sigma Aldrich, 1907/2006 compliant, dated 2012 - no entries; IARC – Group 3, not carcinogenic.
Data source: http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=17010&HarmOnly=no?fc=true&lang=en
Data source date: 16 Jun 2014
Hazard Statements: STOT SE 2; H371

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

GB MCL index number: 602-039-00-4
Description/Comments: Worst Case: IARC considers PCB Group 1; Carcinogenic to humans;

POP specific threshold from ATP1 (Regulation 756/2010/EU) to POPs Regulation (Regulation 850/2004/EC). Where applicable, the calculation method laid down in European standards EN 12766-1 and EN 12766-2 shall be applied.
Additional Hazard Statement(s): Carc. 1A; H350
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

- **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

Appendix B: Rationale for selection of metal species

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

Worst case species

arsenic {arsenic trioxide}

Worst case species based on risk phrases

boron {diboron trioxide}

Likely to be diboron trioxide

cadmium {cadmium sulfide}

Worst case species based on risk phrases

copper {dicopper oxide; copper (I) oxide}

Most likely common species

lead {lead compounds with the exception of those specified elsewhere in this Annex}

Likely to be lead oxide

mercury {mercury dichloride}

Worst case species based on risk phrases

nickel {nickel dihydroxide}

Worst case species based on risk phrases

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

Worst case species based on risk phrases

vanadium {divanadium pentaoxide; vanadium pentoxide}

most common form

zinc {zinc oxide}

Likely to be zinc oxide

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

Most likely

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

worst case

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021
HazWasteOnline Classification Engine Version: 2024.12.5912.10931 (13 Jan 2024)
HazWasteOnline Database: 2024.12.5912.10931 (13 Jan 2024)

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