

OUR REF: A2212/21/LR/V1 16th June 2021

16th June 2021

Mr. Ahmed Yaseen
Crown Advisory c/o
Xenon 303 Ltd
Parkway5 Suite 1
Parkway Business Centre
Princess Road
Manchester
M14 7HR

By Email (ahmed@crownadvisory.co.uk)

Dear Ahmed,

Soil Contamination Delineation Letter Report
Claremont Road, Manchester

Background

A follow up site investigation has been commissioned by Crown Advisory, to undertake soil sampling around two areas of contamination located within the garden areas of the proposed development.

Previous Reporting

This report should be read in conjunction with the following reports previously prepared by Earth Environmental & Geotechnical Ltd:

- Phase I Geo-Environmental Desk Study Report (Reference: A2212/17, August 2017)
- Phase II Geo-Environmental Investigation Report (Reference: A2212/19/B.0, January 2019)
- Asbestos Management Plan (Reference: A2212/19/AMP, January 2019)
- Remediation Strategy (Reference A2212/19/RMS, January 2019)

Reference

Earth Environmental and Geotechnical Ltd were commissioned by the client, to undertake a Geo-Environmental Investigation of the site with the following objectives:

- *Assess the presence and likely extent of any potential environmental hazards (soil contamination) associated with previously identified hotspots within proposed garden areas.*

Proposed Development

It is understood that the Client intends to construct 7no. two-storey residential dwellings with dormers and associated off street parking and garden areas.

A development plan has been provided as Figure 1 overleaf.

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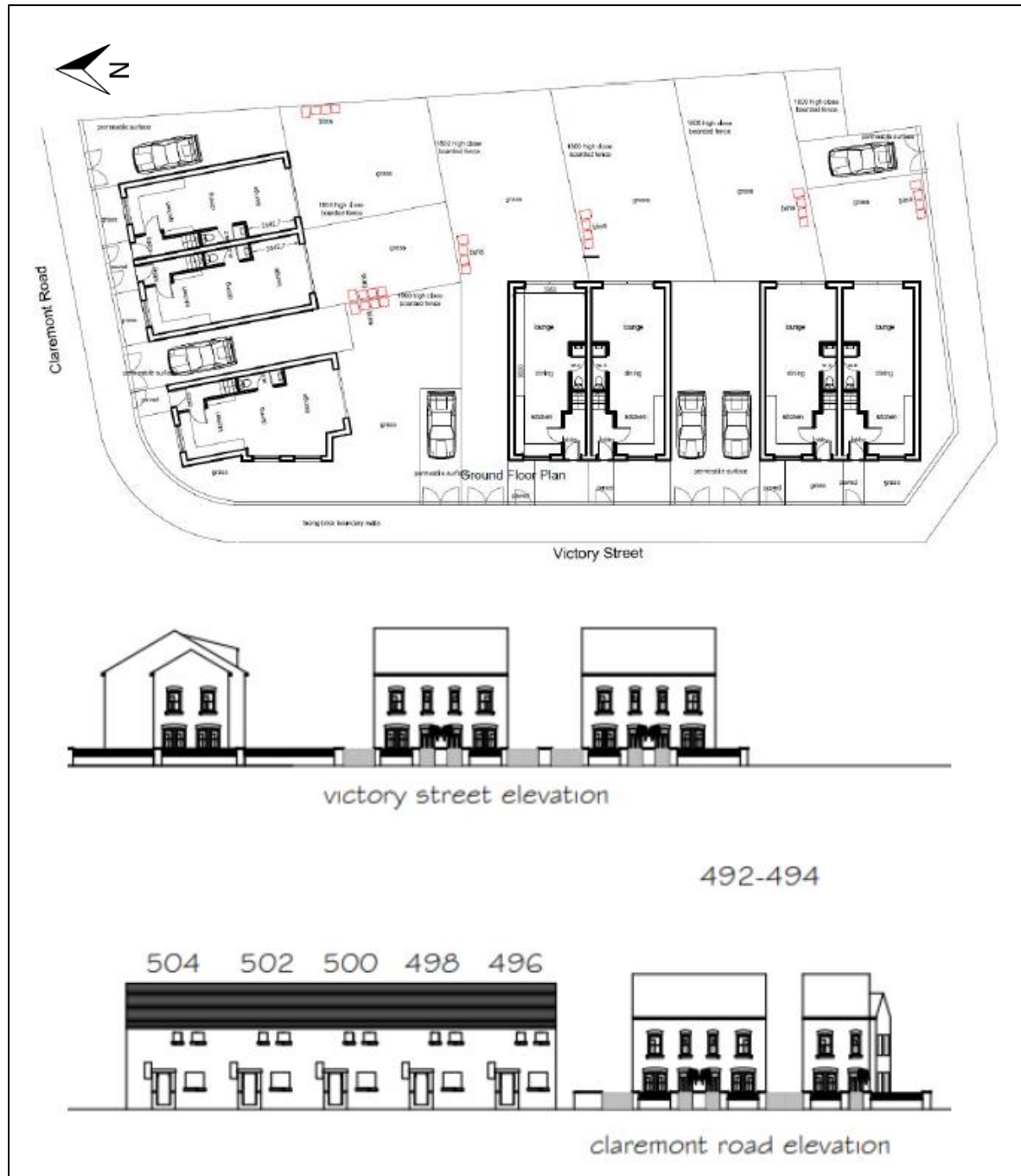
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Figure 1: Site Development Plan



Fieldwork

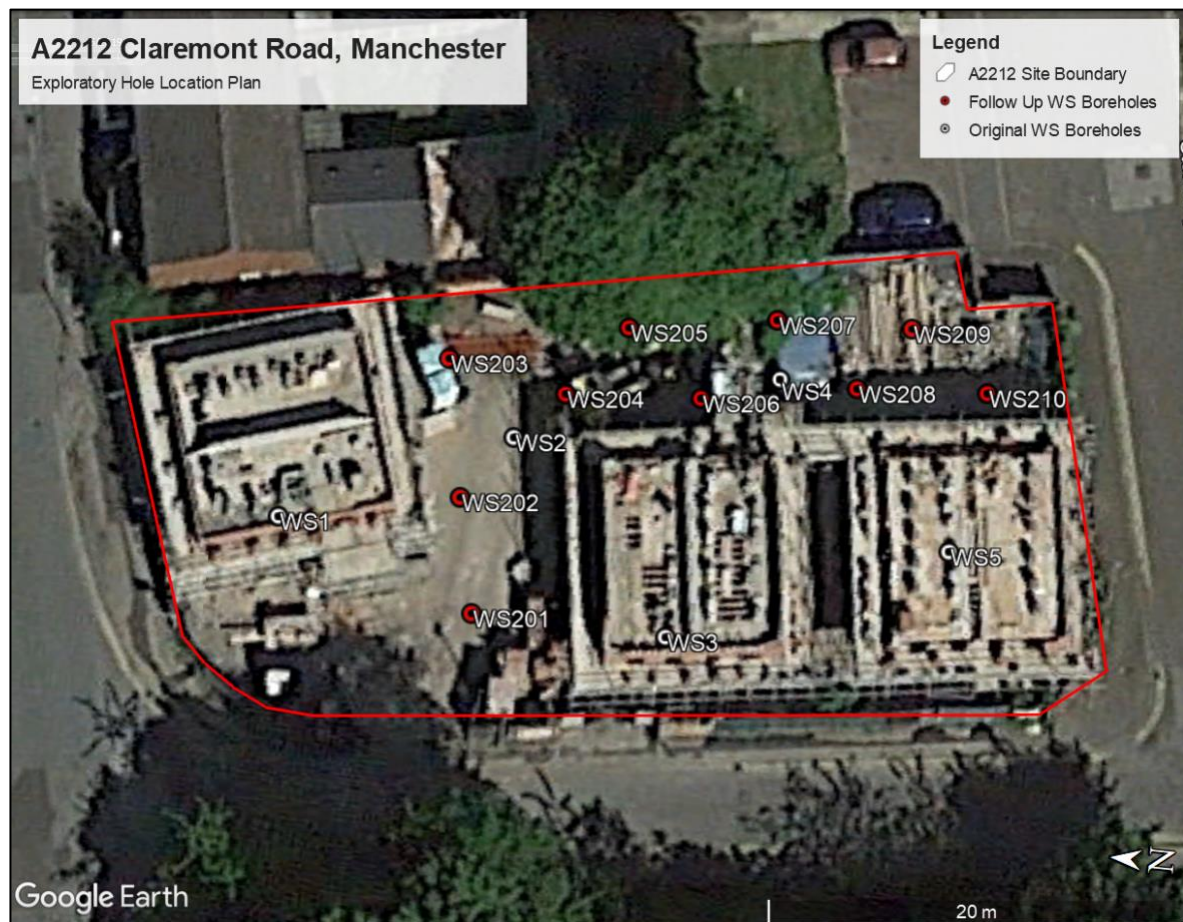
A site visit was conducted on the 26th May 2021, to retrieve samples from around identified contamination hotspots. Ten window sample boreholes (designated WS201 to WS210) were excavated to depths of 1.00m bgl. Each excavation was sampled and backfilled upon completion. Sampling locations are shown in Figure 2 overleaf.

Ground Conditions

In the area of the site investigated the ground conditions consisted primarily of variable made ground gravel with natural clay being encountered in WS209 and WS210.

Exploratory hole logs can be found as Appendix A.

Figure 2: Exploratory Hole Location Plan



Chemical Testing

The environmental chemistry of the ground was investigated by specialist analysis of selected samples, scheduled by EEG and carried out by DETS.

Chemical analyses were carried out on ten soil samples and were submitted for the following suite of determinants:

Arsenic, Beryllium, Boron, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Vanadium, Zinc, Cyanide, Thiocyanate, Phenol, Sulphate (SO₄), Sulphide, pH, Sulphur, Soil Organic Matter and speciated Polyaromatic Hydrocarbons (PAH) and Speciated Petroleum Hydrocarbons (TPH).

At a Tier I stage the long term (chronic) human health toxicity of the soil has been assessed with reference to DEFRA/Environment Agency Contaminated Land Exposure Assessment (CLEA) Soil Guideline Values (SGV) for generic site land uses, soils and exposure. Where Environment Agency generic guidance is absent, reference has been made to the Chartered Institute of Environmental Health (CIEH) S4ULs for human health risk assessment.

In the case of arsenic, cadmium, hexavalent chromium, lead and benzo(a)pyrene DEFRA Category 4 Screening levels have been adopted.

A conservative Soil Organic Matter (SOM) of 1% has been adopted for organic chemicals for the purposes of the initial assessment. A SOM of 6% has been adopted for inorganic chemicals as detailed in 'The LQM / CIEH S4ULs for human health assessment', (2015).

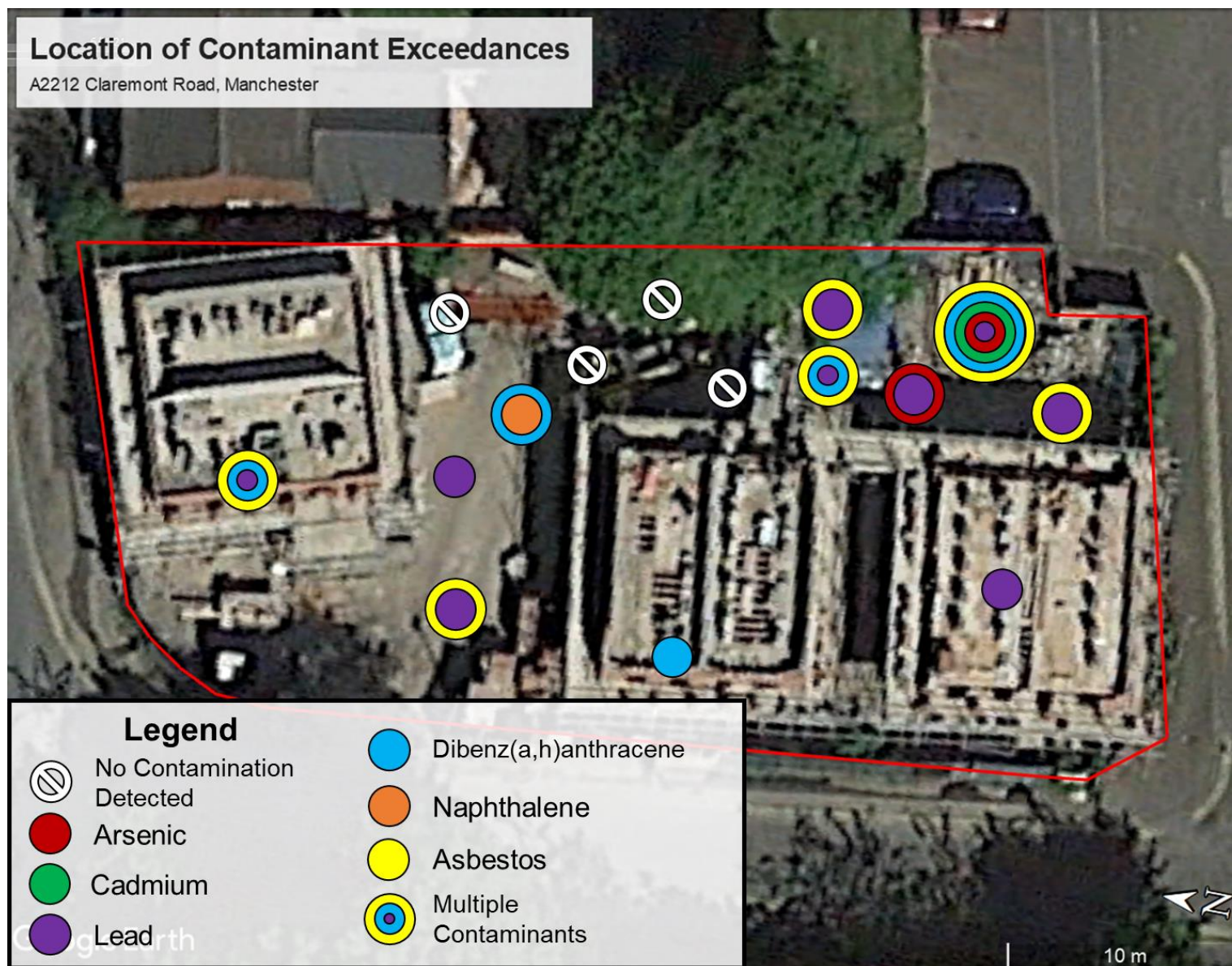
Full results of the chemical analyses are presented in Appendix B and summarised in Table 1 (overleaf).

Table 1: Assessment of Soil Chemical Data

Determinand	C4SL/S4UL Levels Residential (mg/kg)	WS201 0.50m MG	WS202 0.70m MG	WS203 0.40m MG	WS204 0.60m MG	WS205 0.50m MG	WS206 0.80m MG	WS207 0.20m MG	WS208 0.40m MG	WS209 0.30m MG	WS210 0.50m MG	No of Exceedances
Metals												
Arsenic	37	13	24	8	11	10	16	27	38	59	30	2
Beryllium	1.7	< 0.5	1.1	0.5	1.1	1	0.9	1.2	1.6	0.8	1.3	0
Boron	290	< 1	< 1	< 1	1.5	< 1	2.5	< 1	< 1	1.3	1.9	0
Cadmium	22	0.4	0.2	< 0.2	< 0.2	< 0.2	0.3	1.1	2.7	36.6	7.4	1
Chromium	910	17	12	8	18	24	13	13	21	63	25	0
Chromium VI	21	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	0
Copper	2400	49	64	25	25	25	65	89	294	1670	233	0
Lead	200	1040	228	42	34	23	179	468	271	5080	423	6
Mercury	40	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	1.7	1	0
Nickel	180	7	10	7	14	22	17	22	44	118	41	0
Selenium	250	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	0
Vanadium	410	19	24	13	24	27	23	31	42	41	36	0
Zinc	3700	182	72	28	38	52	99	482	642	3020	1550	0
Petroleum Hydrocarbons												
Benzene	0.087	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0
Toluene	130	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0
Ethylbenzene	47	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0
o-xylenes	60	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0
m-xylenes	59	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0
p-xylenes	56	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0
Aliphatic EC >5-6	42	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0
Aliphatic EC >6-8	100	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0
Aliphatic EC >8-10	27	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	0
Aliphatic EC >10-12	130 (v)	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	0
Aliphatic EC >12-16	1100 (s)	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	3	0
Aliphatic EC >16-21	65000 (s)	3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	7	5	0
Aliphatic EC >21-35	65000 (s)	165	< 10	< 10	< 10	< 10	< 10	< 10	< 10	192	< 10	0
Aromatic EC >5-7	70	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0
Aromatic EC >7-8	130	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0
Aromatic EC >8-10	34	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	9	0
Aromatic EC >10-12	74	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	12	0
Aromatic EC >12-16	140	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	3	20	0
Aromatic EC >16-21	260	5	< 3	< 3	< 3	< 3	< 3	< 3	< 3	19	10	0
Aromatic EC >21-35	1100	31	< 10	< 10	< 10	< 10	< 10	< 10	< 10	216	< 10	0
Polycyclic Aromatic Hydrocarbons												
Naphthalene	2.3	0.14	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.16	< 0.1	0.19	< 0.1	0

Determinand	C4SL/S4UL Levels Residential (mg/kg)	WS201 0.50m MG	WS202 0.70m MG	WS203 0.40m MG	WS204 0.60m MG	WS205 0.50m MG	WS206 0.80m MG	WS207 0.20m MG	WS208 0.40m MG	WS209 0.30m MG	WS210 0.50m MG	No of Exceedances
Acenaphthylene	210	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0
Acenaphthene	170	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.19	0.13	0
Fluorene	170	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.14	0.17	0
Phenanthrene	95	0.63	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.58	0.19	0.7	0.53	0
Anthracene	2400	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.24	< 0.1	0
Fluoranthene	280	1.23	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.65	0.31	1.58	0.79	0
Pyrene	620	1.29	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.64	0.41	1.88	0.79	0
Benzo(a)anthracene	7.2	0.67	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.27	0.19	0.99	0.3	0
Chrysene	15	0.69	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.31	0.24	1.08	0.37	0
Benzo(a)pyrene	5	0.91	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.43	0.24	2.49	0.69	0
Benzo(b)fluoranthene	2.6	0.29	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.81	0.19	0
Benzo(k)fluoranthene	77	0.67	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.28	0.16	2.25	0.58	0
Indeno(1,2,3-cd)pyrene	27	0.35	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.24	< 0.1	1.26	0.4	0
Dibenz(a,h)anthracene	0.24	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.25	< 0.1	1
Benzo(ghi)perylene	320	0.36	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.27	< 0.1	1.15	0.4	0
Phenols												
Phenol	280	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	0
Concentrations in red are above the assessment criteria based on Residential End Use with Plant Uptake. MG = Made Ground												

Figure 3: Location of Contaminant Exceedances



During the course of this investigation, chemical exceedances in arsenic, cadmium, lead and dibenz(a,h)anthracene (a species of PAH) were detected, with respect to the long-term protection of human health, have been identified across six of the samples tested during this investigation when compared to residential (with plant uptake) end use assessment criteria. The exceedances are summarised below in Table 2 and presented in Figure 3 alongside the previously identified contamination.

Table 2: Summary of Chemical Contamination

Contaminant	Location
Arsenic	WS208 (0.40m) & WS209 (0.30m)
Cadmium	WS209 (0.30m)
Lead	WS1 (0.30m), WS4 (0.40m), WS4 (0.90m), WS5 (0.50m), WS201 (0.50m), WS202 (0.70m), WS207 (0.20m), WS208 (0.40m), WS209 (0.30m), WS210 (0.50m)
PAH	WS1 (0.30m), WS1 (1.00m), WS2 (0.60m), WS3 (0.60m), WS4 (0.40m) & WS209 (0.30m)

Asbestos was identified in four of the samples recovered from this investigation. The details of this can be found in Table 3 alongside the previously identified asbestos contamination with the locations presented in Figure 3.

Asbestos testing results are still awaited from the laboratory and will be reported as an addendum letter report.

Table 3: Summary of Asbestos Encountered

Location	Depth	Sample Matrix	Asbestos Type	Asbestos Quantification
WS1	0.30m	Loose fibres	Chrysotile	0.055%
WS4	0.40m	Fibre bundles	Chrysotile	<0.001%
WS201	0.50m	Fibre bundles	Chrysotile	TBC
WS207	0.20m	Fibre bundles	Chrysotile & anthophyllite	TBC
WS209	0.30m	Microscopic cement & bundles	Chrysotile	TBC
WS210	0.50m	Fibre bundles	Chrysotile	TBC

Soil Waste Assessment

An assessment of the disposal characteristics of the soil in accordance with Environment Agency guidance WM3.1, edition of June 2018, "Guidance on the classification and assessment of waste" has been carried out on soils recovered from the site, using HazWasteOnline.

The results are summarised in Table 4 overleaf and presented in full in Appendix C.

Table 4: Waste Classification of Soils

Location	Depth (m bgl)	WM3.1 Classification	Comments
WS1	0.30	Hazardous	Elevated TPH
WS1	1.00	Non-hazardous	-
WS2	0.60	Non-hazardous	-
WS3	0.60	Non-hazardous	-
WS4	0.40	Non-hazardous	-
WS4	0.90	Non-hazardous	-
WS5	0.50	Non-hazardous	-
WS201	0.50	Non-hazardous	-
WS202	0.70	Non-hazardous	-
WS203	0.40	Non-hazardous	-
WS204	0.60	Non-hazardous	-
WS205	0.50	Non-hazardous	-
WS206	0.80	Non-hazardous	-
WS207	0.20	Non-hazardous	-
WS208	0.40	Non-hazardous	-
WS209	0.30	Hazardous	Elevated copper and lead
WS210	0.50	Non-hazardous	-

The above table shows that two of the soil samples collected during the course of this investigation were classified as **Hazardous** in accordance with WM3.1. These samples were deemed hazardous due to elevated concentrations of TPH in WS1 and elevated concentrations of copper and lead in WS209.

All other soil samples collected from the site were classified as **Non-Hazardous** in accordance with WM3.1.

Further Waste Acceptance Criteria (WAC) testing may prove that this material is acceptable as inert waste.

Conclusions

Based on the results of chemical testing from both the original and follow-up site investigation, exceedances in contaminants were observed in five sampling locations. The contaminants included arsenic, cadmium, lead and two species of polycyclic aromatic hydrocarbons (PAHs) which pose a moderate risk to future residential end users.

In order to break potential pollutant linkages to future residential end users, it is recommended that landscaped areas in close proximity to the contaminated area should be capped with clean cover soils.

A remediation strategy (A2212/19/RMS) and asbestos management plan have already been written for this site. It is advised that the recommendations in these reports be followed during the further development and remediation of this site.

Yours Sincerely,



Luke Glover
Senior GeoEnvironmental Consultant

A Czarnecki

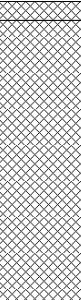
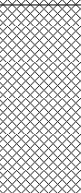
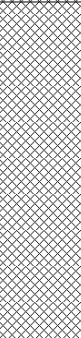
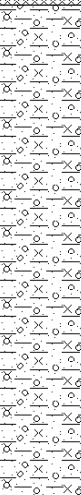
Adam Czarnecki
Director

For and on behalf of Earth Environmental & Geotechnical Ltd

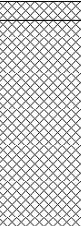
Enclosed: Appendix A – Exploratory Hole Logs
Appendix B – Chemical Testing Results
Appendix C – Soil Waste Assessment

APPENDIX A

EXPLORATORY HOLE LOGS

 Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA					Borehole Log			Borehole No. WS1 Sheet 1 of 1			
Project Name: Claremont Road					Project No. A2212		Co-ords: 385084.00 - 395111.00		Hole Type WS		
Location: Manchester					Level:		Scale 1:20		Logged By JS		
Client: Jordan Contractors Ltd					Dates: 20/12/2018 - 20/12/2018						
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
		Depth (m)	Type	Results							
		0.05			0.05			ASPHALT.	1		
		0.30	ES		0.80			MADE GROUND: Blackish brown, sandy, gravelly CLAY with frequent cobbles of concrete and intact bricks. Gravel of fine to coarse, subangular mudstone, brick, concrete, wood, plastic, coal, clinker and tile fragments.			
		1.00		N=27 (2,10/6,7,7,7)	1.30			MADE GROUND: Firm brown, sandy, gravelly CLAY. Gravel of fine to coarse subangular brick, concrete and clinker.			
		2.00		N=14 (3,4/4,3,3,4)	2.20			MADE GROUND: Sandy GRAVEL and COBBLES of intact, broken and crushed bricks. (Probable relict basement foundations).	2		
		2.70 - 3.00	U	HVP=132				Stiff becoming very stiff, brown mottled blue grey, silty, slightly sandy, slightly gravelly CLAY. Gravel of fine to coarse, subrounded to rounded mudstone and siltstone.	3		
		3.00		N=49 (4,5/12,12,12,13)							
		3.50		N=50 (9,12/50 for 275mm) HVP=140	3.50			Refusal in very stiff clay. End of borehole at 3.50 m	4		
Remarks 1. Hand dug pit to 1.2m. 2. No groundwater encountered. 3. Borehole backfilled with arisings.											

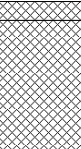
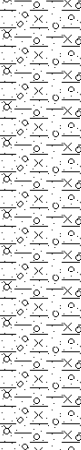
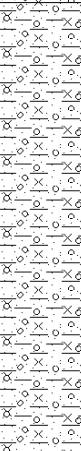
 Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA					Borehole Log			Borehole No. WS2 Sheet 1 of 1		
Project Name: Claremont Road					Project No. A2212		Co-ords: 385089.00 - 395102.00		Hole Type WS	
Location: Manchester					Level:		Scale 1:20		Logged By JS	
Client: Jordan Contractors Ltd					Dates: 20/12/2018 - 20/12/2018					

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.05			0.05		ASPHALT.		1
							MADE GROUND: Grey, clayey, sandy fine to coarse, subangular GRAVEL of mudstone, concrete, clinker and brick fragments.		
		0.60	ES		0.60		MADE GROUND: Soft dark grey, slightly sandy, slightly gravelly CLAY. Gravel of fine to medium, subangular mudstone and occasional brick fragments.		
		1.00		N=7 (2,2/2,1,2,2) HVP=24	1.00		Soft grey silty, slightly sandy, slightly gravelly CLAY with occasional decayed organic inclusions. Gravel of fine to medium, subrounded to rounded mudstone and siltstone.		
		1.20	D	HVP=48	1.40		Stiff brown mottled blue grey, silty, slightly sandy, slightly gravelly CLAY. Gravel of fine to coarse, subrounded to rounded mudstone and siltstone.		
		1.80 - 2.00	U				...Silty SAND band between 1.9m and 2.0m.		
		2.00		N=24 (3,4/5,6,6,7) HVP=140	2.50		Very stiff, brown, slightly silty, slightly gravelly CLAY. Gravel of fine to medium, subangular to subrounded mudstone, siltstone and sandstone.		
		3.00		N=38 (5,5/7,9,10,12) HVP=140					
		3.80		N=50 (25 for 135mm/50 for 265mm)	3.80		Refusal in very stiff clay. End of borehole at 3.80 m	4	

Remarks
 1. Hand dug pit to 1.2m.
 2. No groundwater encountered.
 3. Borehole backfilled with arisings.



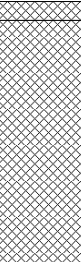
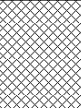
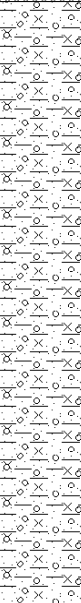
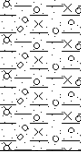
 Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA					Borehole Log			Borehole No. WS3 Sheet 1 of 1		
Project Name: Claremont Road					Project No. A2212		Co-ords: 385082.00 - 395093.00		Hole Type WS	
Location: Manchester					Level:		Scale 1:20		Logged By JS	
Client: Jordan Contractors Ltd					Dates: 20/12/2018 - 20/12/2018					

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.05	ES	N=11 (1,2/2,2,3,4)	0.05		ASPHALT.	1	
		0.40			MADE GROUND: Grey clayey, sandy fine to coarse, subangular GRAVEL of mudstone, concrete, clinker and brick fragments.				
		0.60			MADE GROUND: Soft dark grey, slightly sandy, slightly gravelly CLAY. Gravel of fine to medium, subangular mudstone and occasional brick fragments.				
		1.00	U	HVP=122	0.80		Firm becoming stiff, brown mottled blue grey, silty, slightly sandy, slightly gravelly CLAY. Gravel of fine to coarse, subrounded to rounded mudstone and siltstone.	2	
		1.50 - 1.80			Stiff becoming very stiff, brown, slightly silty, slightly gravelly CLAY. Gravel of fine to medium, subangular to subrounded mudstone, siltstone and sandstone.				
		2.00	D	N=23 (2,4/4,6,6,7) HVP=140	2.00		...	3	
3.00	N=38 (5,6/7,7,10,14) HVP=140	...							
3.50	HVP=140	...							
3.80	D	N=50 (10,14/50 for 255mm)	3.80		Refusal in very stiff clay.	4			
			End of borehole at 3.80 m						

Remarks
 1. Hand dug pit to 1.2m.
 2. No groundwater encountered.
 3. Borehole backfilled with arisings.



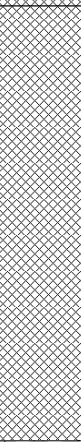
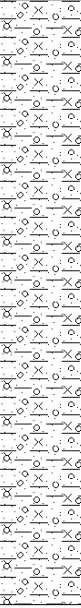
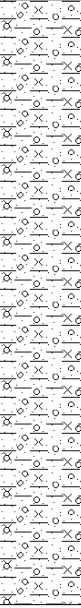
 Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA					Borehole Log			Borehole No. WS4 Sheet 1 of 1		
Project Name: Claremont Road					Project No. A2212		Co-ords: 385094.00 - 395089.00		Hole Type WS	
Location: Manchester					Level:		Scale 1:20		Logged By JS	
Client: Jordan Contractors Ltd					Dates: 20/12/2018 - 20/12/2018					

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.05			ASPHALT.	1 2 3 4
								MADE GROUND: Grey, sandy, gravelly, slightly cobbly CLAY. Gravel and cobbles of fine to coarse, subangular mudstone, brick, concrete, shale, coal and clinker fragments. Slight hydrocarbon odour.	
		0.40	ES		0.70			MADE GROUND: Soft dark grey, slightly sandy, slightly gravelly CLAY. Gravel of fine to medium, subangular mudstone and occasional brick fragments.	
		0.90	ES		1.00				
		1.00		N=14 (1,2/2,4,4,4)	1.00				
		1.80	D	HVP=96					
		2.00		HVP=120					
				N=20 (2,2/3,5,6,6)					
2.70	D	HVP=140	2.60			Very stiff, brown, slightly silty, slightly gravelly CLAY. Gravel of fine to medium, subangular to subrounded mudstone, siltstone and sandstone.			
3.00		N=51 (8,11/51 for 265mm)	3.00			Refusal in very stiff clay. End of borehole at 3.00 m			

Remarks
 1. Hand dug pit to 1.2m.
 2. Perched groundwater inflow from 0.40m.
 3. Borehole backfilled with arisings.



 Houldsworth Mill Business & Arts Centre Houldsworth Street Stockport SK5 6DA					Borehole Log			Borehole No. WS5 Sheet 1 of 1		
Project Name: Claremont Road					Project No. A2212		Co-ords: 385085.00 - 395081.00		Hole Type WS	
Location: Manchester					Level:		Scale 1:20		Logged By JS	
Client: Jordan Contractors Ltd					Dates: 20/12/2018 - 20/12/2018					

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
		Depth (m)	Type	Results							
		0.05			0.05			ASPHALT.			
		0.25			0.25					SUBBASE: Yellowish brown sandy, fine to coarse, subangular GRAVEL of limestone, sandstone and concrete.	
		0.50	ES							MADE GROUND: Grey, clayey, sandy fine to coarse, subangular GRAVEL of mudstone, concrete, clinker, slate and brick fragments.	
		1.00		N=10 (2,2/2,3,3,2)		1.40					Stiff becoming very stiff, brown mottled blue grey, silty, slightly sandy, slightly gravelly CLAY. Gravel of fine to coarse, subrounded to rounded mudstone and siltstone.
		1.70 - 1.90	U	HVP=120							
2.00		N=25 (3,4/5,6,7,7) HVP=135									
		3.00		N=50 (9,9/50 for 260mm) HVP=140	3.00			Refusal. Sandstone recovered at base of sampler. Possible bedrock. End of borehole at 3.00 m	3		
									4		

Remarks 1. Hand dug pit to 1.2m. 2. Perched groundwater inflow from 0.40m. 3. Borehole backfilled with arisings.		
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 EARTH ENVIRONMENTAL & GEOTECHNICAL Earth Environmental & Geotechnical Ltd Houldsworth Mill Business Centre Houldsworth Street Stockport SK5 6DA					Borehole Log				Borehole No. WS201 Sheet 1 of 1	
Project Name: Claremont Road					Project No. A2212		Co-ords: 385100.75 - 395073.62		Hole Type WS	
Location: Manchester					Level:		Scale 1:10			
Client: Create It Studios					Dates: 26/05/2021 - 26/05/2021		Logged By LG			
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
0.15		0.50	ES		1.00		1	MADE GROUND: Asphalt hardstanding.	1	
								MADE GROUND: Dark grey, grey and red, GRAVEL. Gravel is angular, fine to coarse of red brick, concrete, sandstone, glass. and rope.		
End of borehole at 1.00 m								2		
Remarks 1) Hole location scanned with CAT. 2) No monitoring installation; backfilled with arisings.									 EARTH ENVIRONMENTAL & GEOTECHNICAL	

 EARTH ENVIRONMENTAL & GEOTECHNICAL Earth Environmental & Geotechnical Ltd Houldsworth Mill Business Centre Houldsworth Street Stockport SK5 6DA					Borehole Log				Borehole No. WS202 Sheet 1 of 1	
Project Name: Claremont Road					Project No. A2212		Co-ords: 385098.46 - 395082.03		Hole Type WS	
Location: Manchester					Level:		Scale 1:10			
Client: Create It Studios					Dates: 26/05/2021 - 26/05/2021		Logged By LG			
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
					0.15			MADE GROUND: Asphalt hardstanding.	1	
								MADE GROUND: Dark grey and dark brown, clayey, sandy GRAVEL. Sand is fine to coarse. Gravel is angular, fine to coarse of red brick, concrete, plastic, carbonaceous fragments, sandstone, and slate.		
										MADE GROUND: Dark grey and dark brown, very clayey, sandy GRAVEL. Sand is fine to coarse. Gravel is angular, fine to coarse of red brick, concrete, plastic, carbonaceous fragments, sandstone, and slate.
		0.70	ES		0.80					
					1.00			End of borehole at 1.00 m		
Remarks 1) Hole location scanned with CAT. 2) No monitoring installation; backfilled with arisings.									 EARTH ENVIRONMENTAL & GEOTECHNICAL	

 EARTH ENVIRONMENTAL & GEOTECHNICAL Earth Environmental & Geotechnical Ltd Houldsworth Mill Business Centre Houldsworth Street Stockport SK5 6DA					Borehole Log				Borehole No. WS203 Sheet 1 of 1	
Project Name: Claremont Road					Project No. A2212		Co-ords: 385094.75 - 395084.90		Hole Type WS	
Location: Manchester					Level:		Scale 1:10			
Client: Create It Studios					Dates: 26/05/2021 - 26/05/2021		Logged By LG			
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
					0.15			MADE GROUND: Asphalt hardstanding.		
		0.40	ES		0.50			MADE GROUND: Dark grey and dark brown, clayey, sandy GRAVEL. Sand is fine to coarse. Gravel is angular, fine to coarse of red brick, concrete, plastic, carbonaceous fragments, sandstone, and slate.		
					1.00			NO RECOVERY		
							End of borehole at 1.00 m		1	
									2	

Remarks
 1) Hole location scanned with CAT.
 2) No monitoring installation; backfilled with arisings.


EARTH ENVIRONMENTAL & GEOTECHNICAL



Borehole Log

WS204

Sheet 1 of 1

Project No.
A2212

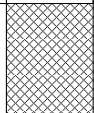
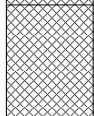
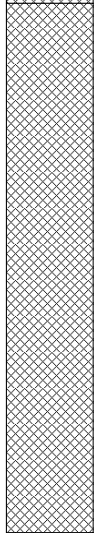
Hole Type	WS
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
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88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Level:

Scale
1:10

Dates: 26/05/2021 - 26/05/2021

Logged By
LG

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
		0.60	ES		0.15			MADE GROUND: Asphalt hardstanding.
								Dark grey clayey slightly sandy GRAVEL. Sand is fine to coarse. Gravel is angular, fine to coarse of red brick, concrete, and carbonaceous fragments.
								MADE GROUND: Grey, silty slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular, fine to medium of red brick and sandstone.
					1.00		----- End of borehole at 1.00 m	

1) Hole location scanned with CAT.
2) No monitoring installation; backfilled with arisings.

EARTH ENVIRONMENTAL
& GEOTECHNICAL

 EARTH ENVIRONMENTAL & GEOTECHNICAL Earth Environmental & Geotechnical Ltd Houldsworth Mill Business Centre Houldsworth Street Stockport SK5 6DA					Borehole Log				Borehole No. WS205 Sheet 1 of 1	
Project Name: Claremont Road					Project No. A2212		Co-ords: 385094.68 - 395093.05		Hole Type WS	
Location: Manchester					Level:		Scale 1:10			
Client: Create It Studios					Dates: 26/05/2021 - 26/05/2021		Logged By LG			
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
		0.50	ES		0.15			MADE GROUND: Asphalt hardstanding.		
					0.30			MADE GROUND: Dark grey and dark brown, clayey, sandy GRAVEL. Sand is fine to coarse. Gravel is angular, fine to coarse of red brick, concrete, plastic, carbonaceous fragments, sandstone, and slate.		
					0.60			MADE GROUND: Brown, slightly silty, slightly sandy, gravelly CLAY. Sand is fine to coarse. Gravel is angular, fine to medium of red brick, concrete, and sandstone.		
					1.00			NO RECOVERY		
								End of borehole at 1.00 m	1	
									2	

Remarks
 1) Hole location scanned with CAT.
 2) No monitoring installation; backfilled with arisings.


EARTH ENVIRONMENTAL & GEOTECHNICAL

 EARTH ENVIRONMENTAL & GEOTECHNICAL Earth Environmental & Geotechnical Ltd Houldsworth Mill Business Centre Houldsworth Street Stockport SK5 6DA					Borehole Log				Borehole No. WS206 Sheet 1 of 1	
Project Name: Claremont Road					Project No. A2212		Co-ords: 385098.09 - 395095.81		Hole Type WS	
Location: Manchester					Level:		Scale 1:10			
Client: Create It Studios					Dates: 26/05/2021 - 26/05/2021		Logged By LG			
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
					0.05			MADE GROUND: Asphalt hardstanding.		
					0.30			MADE GROUND: Dark grey and red, SAND & GRAVEL. Sand is fine to coarse. Gravel is angular, fine to coarse of red brick, concrete, wood, and sandstone. Frequent cobbles of red brick and concrete.		
								MADE GROUND: Grey, silty slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular, fine to medium of red brick and sandstone.		
		0.80	ES		0.90			NO RECOVERY		
					1.00			End of borehole at 1.00 m		
Remarks 1) Hole location scanned with CAT. 2) No monitoring installation; backfilled with arisings.									 EARTH ENVIRONMENTAL & GEOTECHNICAL	

 EARTH ENVIRONMENTAL & GEOTECHNICAL Earth Environmental & Geotechnical Ltd Houldsworth Mill Business Centre Houldsworth Street Stockport SK5 6DA					Borehole Log				Borehole No. WS207 Sheet 1 of 1	
Project Name: Claremont Road					Project No. A2212		Co-ords: 385093.07 - 395098.63		Hole Type WS	
Location: Manchester					Level:		Scale 1:10			
Client: Create It Studios					Dates: 26/05/2021 - 26/05/2021		Logged By LG			
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
					0.05			MADE GROUND: Asphalt hardstanding.		
		0.20	ES					MADE GROUND: Dark grey and red, SAND & GRAVEL. Sand is fine to coarse. Gravel is angular, fine to coarse of red brick, concrete, wood, and sandstone. Frequent cobbles of red brick and concrete.		
					0.40					NO RECOVERY
					1.00			End of borehole at 1.00 m	1	
									2	

Remarks
 1) Hole location scanned with CAT.
 2) No monitoring installation; backfilled with arisings.


EARTH ENVIRONMENTAL & GEOTECHNICAL

 EARTH ENVIRONMENTAL & GEOTECHNICAL Earth Environmental & Geotechnical Ltd Houldsworth Mill Business Centre Houldsworth Street Stockport SK5 6DA					Borehole Log				Borehole No. WS208 Sheet 1 of 1	
Project Name: Claremont Road					Project No. A2212		Co-ords: 385097.16 - 395106.10		Hole Type WS	
Location: Manchester					Level:		Scale 1:10			
Client: Create It Studios					Dates: 26/05/2021 - 26/05/2021		Logged By LG			
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
0.05		0.40	ES		0.50			MADE GROUND: Asphalt hardstanding.	1	
								MADE GROUND: Dark grey and red, SAND & GRAVEL. Sand is fine to coarse. Gravel is angular, fine to coarse of red brick, concrete, wood, and sandstone.		
								NO RECOVERY		
					1.00		End of borehole at 1.00 m		2	
Remarks 1) Hole location scanned with CAT. 2) No monitoring installation; backfilled with arisings.									 EARTH ENVIRONMENTAL & GEOTECHNICAL	

 EARTH ENVIRONMENTAL & GEOTECHNICAL Earth Environmental & Geotechnical Ltd Houldsworth Mill Business Centre Houldsworth Street Stockport SK5 6DA					Borehole Log			Borehole No. WS209 Sheet 1 of 1		
Project Name: Claremont Road					Project No. A2212		Co-ords: 385091.37 - 395104.57		Hole Type WS	
Location: Manchester					Level:		Scale 1:10			
Client: Create It Studios					Dates: 26/05/2021 - 26/05/2021		Logged By LG			
Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
		Depth (m)	Type	Results						
					0.05			MADE GROUND: Asphalt hardstanding.		
								MADE GROUND: Dark grey and red, SAND & GRAVEL. Sand is fine to coarse. Gravel is angular, fine to coarse of red brick, concrete, wood, glass, clinker, and sandstone.		
		0.30	ES		0.40			MADE GROUND: Grey, silty slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular, fine to medium of red brick and sandstone.		
					0.75			Stiff, orangish brown, mottled/ grey, slightly sandy, slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular to subangular, fine of sandstone and carbonaceous fragments.		
					1.00			End of borehole at 1.00 m	1	
										2
Remarks 1) Hole location scanned with CAT. 2) No monitoring installation; backfilled with arisings.									 EARTH ENVIRONMENTAL & GEOTECHNICAL	

 EARTH ENVIRONMENTAL & GEOTECHNICAL Earth Environmental & Geotechnical Ltd Houldsworth Mill Business Centre Houldsworth Street Stockport SK5 6DA					Borehole Log			Borehole No. WS210 Sheet 1 of 1			
Project Name: Claremont Road					Project No. A2212		Co-ords: 385084.71 - 395104.04		Hole Type WS		
Location: Manchester					Level:		Scale 1:10		Logged By LG		
Client: Create It Studios					Dates: 26/05/2021 - 26/05/2021						

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.50	ES		0.04			MADE GROUND: Asphalt hardstanding.	
								MADE GROUND: Dark grey and red, SAND & GRAVEL. Sand is fine to coarse. Gravel is angular, fine to coarse of red brick, concrete, wood, and sandstone.	
					0.25			MADE GROUND: Grey, silty slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular, fine to medium of red brick and sandstone.	
								Gravel pocket.	
					0.80			Stiff, orangish brown, mottled/ grey, slightly sandy, slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular to subangular, fine of sandstone and carbonaceous fragments.	
					1.00			End of borehole at 1.00 m	1
									2

Remarks

1) Hole location scanned with CAT.
 2) No monitoring installation; backfilled with arisings.


EARTH ENVIRONMENTAL & GEOTECHNICAL

APPENDIX B

CHEMICAL TESTING RESULTS



Jessica Sheridan
Earth Environmental & Geotechnical Ltd
Houldsworth Mill Business Centre
Houldsworth Street
Reddish
Stockport
Cheshire
SK5 6DA

DETS Ltd
Unit 1
Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Kent
ME17 2JN
t: 01622 850410
russell.jarvis@dets.co.uk

DETS Report No: 18-86918

Site Reference: Claremont Road, Manchester

Project / Job Ref: A2212

Order No: A2212/JS

Sample Receipt Date: 21/12/2018

Sample Scheduled Date: 21/12/2018

Report Issue Number: 1

Reporting Date: 04/01/2019

Authorised by:

Russell Jarvis
Associate Director of Client Services

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.



DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410



Soil Analysis Certificate						
DETS Report No: 18-86918	Date Sampled	20/12/18	20/12/18	20/12/18	20/12/18	20/12/18
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Claremont Road, Manchester	TP / BH No	WS1	WS1	WS2	WS3	WS4
Project / Job Ref: A2212	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: A2212/JS	Depth (m)	0.30	1.00	None Supplied	0.60	0.40
Reporting Date: 04/01/2019	DETS Sample No	379904	379905	379906	379907	379908

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Detected	Not Detected	Not Detected	Not Detected	Detected
Sample Matrix ^(S)	Material Type	N/a	NONE	Chrysotile present in microscopic loose fibrous asbestos debris				Fibre bundle present in soil
Asbestos Type ^(S)	PLM Result	N/a	ISO17025	Chrysotile				Chrysotile
pH	pH Units	N/a	MCERTS	7.6	8.3	7.9	7.8	7.8
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Complex Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Free Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Total Sulphate as SO ₄	mg/kg	< 200	NONE	39860	2765	713	372	531
Total Sulphate as SO ₄	%	< 0.02	NONE	3.99	0.28	0.07	0.04	0.05
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	1350	1110	195	96	67
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	1.35	1.11	0.19	0.10	0.07
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Organic Matter	%	< 0.1	MCERTS	2	1.3	2.9	1.5	2.7
Arsenic (As)	mg/kg	< 2	MCERTS	14	12	11	8	18
Barium (Ba)	mg/kg	< 5	NONE	143	125	97	88	192
Beryllium (Be)	mg/kg	< 0.5	NONE	0.6	1	0.9	0.7	1
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	1.4	0.2	0.3	< 0.2	1.6
Chromium (Cr)	mg/kg	< 2	MCERTS	11	19	14	17	19
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	195	30	91	24	51
Lead (Pb)	mg/kg	< 3	MCERTS	323	127	97	53	209
Mercury (Hg)	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	11	20	17	13	26
Selenium (Se)	mg/kg	< 3	NONE	< 3	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 2	NONE	21	25	22	22	33
Zinc (Zn)	mg/kg	< 3	MCERTS	175	55	507	49	471
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
EPH (C10 - C40)	mg/kg	< 6	MCERTS	3800	239	377	483	1010

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C
Subcontracted analysis (S)



DETS Ltd
Unit 1, Rose Lane Industrial Estate
Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410



Soil Analysis Certificate						
DETS Report No: 18-86918	Date Sampled	20/12/18	20/12/18			
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Claremont Road, Manchester	TP / BH No	WS4	WS5			
Project / Job Ref: A2212	Additional Refs	None Supplied	None Supplied			
Order No: A2212/JS	Depth (m)	0.90	0.50			
Reporting Date: 04/01/2019	DETS Sample No	379909	379910			

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected			
Sample Matrix ^(S)	Material Type	N/a	NONE					
Asbestos Type ^(S)	PLM Result	N/a	ISO17025					
pH	pH Units	N/a	MCERTS	7.6	7.8			
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2			
Complex Cyanide	mg/kg	< 2	NONE	< 2	< 2			
Free Cyanide	mg/kg	< 2	NONE	< 2	< 2			
Total Sulphate as SO ₄	mg/kg	< 200	NONE	469	714			
Total Sulphate as SO ₄	%	< 0.02	NONE	0.05	0.07			
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	41	32			
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.04	0.03			
Sulphide	mg/kg	< 5	NONE	< 5	< 5			
Organic Matter	%	< 0.1	MCERTS	2.4	2.2			
Arsenic (As)	mg/kg	< 2	MCERTS	13	15			
Barium (Ba)	mg/kg	< 5	NONE	174	146			
Beryllium (Be)	mg/kg	< 0.5	NONE	0.9	0.6			
W/S Boron	mg/kg	< 1	NONE	< 1	< 1			
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.7	0.5			
Chromium (Cr)	mg/kg	< 2	MCERTS	17	15			
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2			
Copper (Cu)	mg/kg	< 4	MCERTS	39	34			
Lead (Pb)	mg/kg	< 3	MCERTS	268	218			
Mercury (Hg)	mg/kg	< 1	NONE	< 1	< 1			
Nickel (Ni)	mg/kg	< 3	MCERTS	19	22			
Selenium (Se)	mg/kg	< 3	NONE	< 3	< 3			
Vanadium (V)	mg/kg	< 2	NONE	27	19			
Zinc (Zn)	mg/kg	< 3	MCERTS	272	138			
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2			
EPH (C10 - C40)	mg/kg	< 6	MCERTS	381	426			

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C
Subcontracted analysis (S)



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 18-86918	Date Sampled	20/12/18	20/12/18	20/12/18	20/12/18	20/12/18
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Claremont Road, Manchester	TP / BH No	WS1	WS1	WS2	WS3	WS4
Project / Job Ref: A2212	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: A2212/JS	Depth (m)	0.30	1.00	None Supplied	0.60	0.40
Reporting Date: 04/01/2019	DETS Sample No	379904	379905	379906	379907	379908

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	5.02	0.13	< 0.1	0.20
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	0.21	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.15	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	0.16	0.16	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	0.49	1.54	0.81	0.56	0.31
Anthracene	mg/kg	< 0.1	MCERTS	0.17	1.52	0.30	0.15	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	1.28	0.89	1.35	0.74	0.53
Pyrene	mg/kg	< 0.1	MCERTS	1.36	0.87	1.37	0.71	0.55
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.66	0.90	0.64	0.51	0.40
Chrysene	mg/kg	< 0.1	MCERTS	0.72	2.08	0.46	0.26	0.20
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.73	1.58	0.72	0.51	0.46
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.13	1.37	0.15	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.40	4.79	0.45	0.32	0.24
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.50	1.76	0.51	0.45	0.42
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	0.34	0.55	0.33	0.32	0.31
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	2.60	0.32	0.29	0.28
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	6.8	25.8	7.9	4.8	3.9

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 18-86918	Date Sampled	20/12/18	20/12/18			
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Claremont Road, Manchester	TP / BH No	WS4	WS5			
Project / Job Ref: A2212	Additional Refs	None Supplied	None Supplied			
Order No: A2212/JS	Depth (m)	0.90	0.50			
Reporting Date: 04/01/2019	DETS Sample No	379909	379910			

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Phenanthrene	mg/kg	< 0.1	MCERTS	0.14	0.19			
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Fluoranthene	mg/kg	< 0.1	MCERTS	0.31	0.42			
Pyrene	mg/kg	< 0.1	MCERTS	0.31	0.41			
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.32	0.35			
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.31	0.33			
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.14	0.16			
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.38	0.37			
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1			
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.22	0.20			
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	2.1	2.4			

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C



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Soil Analysis Certificate - TPH CWG Banded						
DETS Report No: 18-86918	Date Sampled	20/12/18	20/12/18	20/12/18	20/12/18	20/12/18
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Claremont Road, Manchester	TP / BH No	WS1	WS1	WS2	WS3	WS4
Project / Job Ref: A2212	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: A2212/JS	Depth (m)	0.30	1.00	None Supplied	0.60	0.40
Reporting Date: 04/01/2019	DETS Sample No	379904	379905	379906	379907	379908

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	22	< 3	< 3	< 3	9
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	1172	54	39	77	294
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	1194	54	39	77	303
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	3	< 2	5	3	2
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	42	5	33	12	21
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	1478	97	149	209	241
Aromatic (C5 - C35)	mg/kg	< 21	NONE	1523	102	186	225	265
Total >C5 - C35	mg/kg	< 42	NONE	2717	156	226	301	568

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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 18-86918	Date Sampled	20/12/18	20/12/18			
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Claremont Road, Manchester	TP / BH No	WS4	WS5			
Project / Job Ref: A2212	Additional Refs	None Supplied	None Supplied			
Order No: A2212/JS	Depth (m)	0.90	0.50			
Reporting Date: 04/01/2019	DETS Sample No	379909	379910			

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01			
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05			
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2			
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2			
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3			
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	11			
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	48	162			
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	48	173			
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01			
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05			
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2			
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2			
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2			
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	12	6			
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	132	189			
Aromatic (C5 - C35)	mg/kg	< 21	NONE	145	195			
Total >C5 - C35	mg/kg	< 42	NONE	193	369			

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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 18-86918	Date Sampled	20/12/18	20/12/18	20/12/18	20/12/18	20/12/18
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Claremont Road, Manchester	TP / BH No	WS1	WS1	WS2	WS3	WS4
Project / Job Ref: A2212	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: A2212/JS	Depth (m)	0.30	1.00	None Supplied	0.60	0.40
Reporting Date: 04/01/2019	DETS Sample No	379904	379905	379906	379907	379908

Determinand	Unit	RL	Accreditation					
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	MCERTS	< 5	10	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 18-86918	Date Sampled	20/12/18	20/12/18			
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Claremont Road, Manchester	TP / BH No	WS4	WS5			
Project / Job Ref: A2212	Additional Refs	None Supplied	None Supplied			
Order No: A2212/JS	Depth (m)	0.90	0.50			
Reporting Date: 04/01/2019	DETS Sample No	379909	379910			

Determinand	Unit	RL	Accreditation					
Benzene	ug/kg	< 2	MCERTS	< 2	< 2			
Toluene	ug/kg	< 5	MCERTS	< 5	< 5			
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2			
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2			
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2			
MTBE	ug/kg	< 5	MCERTS	< 5	< 5			

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C



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Soil Analysis Certificate - Sample Descriptions	
DETS Report No: 18-86918	
Earth Environmental & Geotechnical Ltd	
Site Reference: Claremont Road, Manchester	
Project / Job Ref: A2212	
Order No: A2212/JS	
Reporting Date: 04/01/2019	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
379904	WS1	None Supplied	0.30	12.4	Black sandy clay with stones and concrete
379905	WS1	None Supplied	1.00	17.7	Brown sandy clay with stones and concrete
379906	WS2	None Supplied	None Supplied	17.7	Brown sandy clay with stones and concrete
379907	WS3	None Supplied	0.60	16	Brown sandy clay with stones
379908	WS4	None Supplied	0.40	15.1	Black sandy clay with stones and brick
379909	WS4	None Supplied	0.90	22.1	Black sandy clay with brick
379910	WS5	None Supplied	0.50	15.1	Black sandy clay with stones

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{I/S}

Unsuitable Sample ^{U/S}



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 18-86918

Earth Environmental & Geotechnical Ltd

Site Reference: Claremont Road, Manchester

Project / Job Ref: A2212

Order No: A2212/JS

Reporting Date: 04/01/2019

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



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DETS Report No: 19-00085

Site Reference: Claremont Road, Manchester

Project / Job Ref: A2212

Order No: None Supplied

Sample Receipt Date: 21/12/2018

Sample Scheduled Date: 07/01/2019

Report Issue Number: 2

Reporting Date: 14/01/2019

Authorised by:

Russell Jarvis
Associate Director of Client Services

This report supersedes 19-00085, issue no.1.
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Soil Analysis Certificate						
DETS Report No: 19-00085	Date Sampled	20/12/18	20/12/18			
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied			
Site Reference: Claremont Road, Manchester	TP / BH No	WS1	WS4			
Project / Job Ref: A2212	Additional Refs	None Supplied	None Supplied			
Order No: None Supplied	Depth (m)	0.30	0.40			
Reporting Date: 14/01/2019	DETS Sample No	380636	380637			

Determinand	Unit	RL	Accreditation			
Asbestos Quantification ^(S)	%	< 0.001	ISO17025	0.055	< 0.001	

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C
Subcontracted analysis (S)



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Soil Analysis Certificate - Methodology & Miscellaneous Information				
DETS Report No: 19-00085				
Earth Environmental & Geotechnical Ltd				
Site Reference: Claremont Road, Manchester				
Project / Job Ref: A2212				
Order No: None Supplied				
Reporting Date: 14/01/2019				

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 – C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received



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DETS Report No: 21-06936

Site Reference: Claremont Road, Manchester

Project / Job Ref: A2212

Order No: A2212

Sample Receipt Date: 28/05/2021

Sample Scheduled Date: 28/05/2021

Report Issue Number: 1

Reporting Date: 08/06/2021

Authorised by:

Dave Ashworth
Technical Manager

Dates of laboratory activities for each tested analyte are available upon request.

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Soil Analysis Certificate						
DETS Report No: 21-06936	Date Sampled	26/05/21	26/05/21	26/05/21	26/05/21	26/05/21
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Claremont Road, Manchester	TP / BH No	WS201	WS202	WS203	WS204	WS205
Project / Job Ref: A2212	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: A2212	Depth (m)	0.50	0.70	0.40	0.60	0.50
Reporting Date: 08/06/2021	DETS Sample No	546303	546304	546305	546306	546307

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Detected	Not Detected	Not Detected	Not Detected	Not Detected
Sample Matrix ^(S)	Material Type	N/a	NONE	Bundle of Chrysotile fibres				
Asbestos Type ^(S)	PLM Result	N/a	ISO17025	Chrysotile				
pH	pH Units	N/a	MCERTS	7.8	7.8	7.9	7.6	6.8
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Complex Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Free Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Total Sulphate as SO ₄	mg/kg	< 200	MCERTS	1389	1253	261	391	264
Total Sulphate as SO ₄	%	< 0.02	MCERTS	0.14	0.13	0.03	0.04	0.03
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	82	166	138	90	93
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.08	0.17	0.14	0.09	0.09
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	< 5
Organic Matter (SOM)	%	< 0.1	MCERTS	2.1	3.5	1.3	2.9	1.3
Arsenic (As)	mg/kg	< 2	MCERTS	13	24	8	11	10
Barium (Ba)	mg/kg	< 2.5	MCERTS	279	130	39	98	110
Beryllium (Be)	mg/kg	< 0.5	MCERTS	< 0.5	1.1	0.5	1.1	1
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	1.5	< 1
Cadmium (Cd)	mg/kg	< 0.2	NONE	0.4	0.2	< 0.2	< 0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	MCERTS	17	12	8	18	24
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	49	64	25	25	25
Lead (Pb)	mg/kg	< 3	MCERTS	1040	228	42	34	23
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	7	10	7	14	22
Selenium (Se)	mg/kg	< 2	MCERTS	< 3	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 1	MCERTS	19	24	13	24	27
Zinc (Zn)	mg/kg	< 3	MCERTS	182	72	28	38	52
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
EPH (C10 - C40)	mg/kg	< 6	MCERTS	340	9	13	< 6	< 6

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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Soil Analysis Certificate						
DETS Report No: 21-06936	Date Sampled	26/05/21	26/05/21	26/05/21	26/05/21	26/05/21
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Claremont Road, Manchester	TP / BH No	WS206	WS207	WS208	WS209	WS210
Project / Job Ref: A2212	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: A2212	Depth (m)	0.80	0.20	0.40	0.30	0.50
Reporting Date: 08/06/2021	DETS Sample No	546308	546309	546310	546311	546312

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Detected	Not Detected	Detected	Detected
Sample Matrix ^(S)	Material Type	N/a	NONE		bundles of Chrysotile and Anthophyllite fibres		Chrysotile in microscopic cement and bundles in soil	Bundles of Chrysotile fibres
Asbestos Type ^(S)	PLM Result	N/a	ISO17025		Anthophyllite Chrysotile		Chrysotile	Chrysotile
pH	pH Units	N/a	MCERTS	6.8	7.1	7.0	7.1	6.9
Total Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Complex Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Free Cyanide	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Total Sulphate as SO ₄	mg/kg	< 200	MCERTS	561	813	1090	2498	743
Total Sulphate as SO ₄	%	< 0.02	MCERTS	0.06	0.08	0.11	0.25	0.07
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	111	192	104	154	53
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.11	0.19	0.10	0.15	0.05
Sulphide	mg/kg	< 5	NONE	8	< 5	< 5	< 5	< 5
Organic Matter (SOM)	%	< 0.1	MCERTS	3.1	2.4	4.9	5.7	4.9
Arsenic (As)	mg/kg	< 2	MCERTS	16	27	38	59	30
Barium (Ba)	mg/kg	< 2.5	MCERTS	125	201	265	629	269
Beryllium (Be)	mg/kg	< 0.5	MCERTS	0.9	1.2	1.6	0.8	1.3
W/S Boron	mg/kg	< 1	NONE	2.5	< 1	< 1	1.3	1.9
Cadmium (Cd)	mg/kg	< 0.2	NONE	0.3	1.1	2.7	36.6	7.4
Chromium (Cr)	mg/kg	< 2	MCERTS	13	13	21	63	25
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	65	89	294	1670	233
Lead (Pb)	mg/kg	< 3	MCERTS	179	468	271	5080	423
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	1	1.7	1
Nickel (Ni)	mg/kg	< 3	MCERTS	17	22	44	118	41
Selenium (Se)	mg/kg	< 2	MCERTS	< 3	< 3	< 3	< 3	< 3
Vanadium (V)	mg/kg	< 1	MCERTS	23	31	42	41	36
Zinc (Zn)	mg/kg	< 3	MCERTS	99	482	642	3020	1550
Total Phenols (monohydric)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	< 2
EPH (C10 - C40)	mg/kg	< 6	MCERTS	< 6	41	23	969	142

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion
Subcontracted analysis (S)



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 21-06936	Date Sampled	26/05/21	26/05/21	26/05/21	26/05/21	26/05/21
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Claremont Road, Manchester	TP / BH No	WS201	WS202	WS203	WS204	WS205
Project / Job Ref: A2212	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: A2212	Depth (m)	0.50	0.70	0.40	0.60	0.50
Reporting Date: 08/06/2021	DETS Sample No	546303	546304	546305	546306	546307

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	0.14	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	0.63	< 0.1	< 0.1	< 0.1	< 0.1
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	1.23	< 0.1	< 0.1	< 0.1	< 0.1
Pyrene	mg/kg	< 0.1	MCERTS	1.29	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.67	< 0.1	< 0.1	< 0.1	< 0.1
Chrysene	mg/kg	< 0.1	MCERTS	0.69	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.91	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.29	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.67	< 0.1	< 0.1	< 0.1	< 0.1
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.35	< 0.1	< 0.1	< 0.1	< 0.1
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.36	< 0.1	< 0.1	< 0.1	< 0.1
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	7.2	< 1.6	< 1.6	< 1.6	< 1.6



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 21-06936	Date Sampled	26/05/21	26/05/21	26/05/21	26/05/21	26/05/21
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Claremont Road, Manchester	TP / BH No	WS206	WS207	WS208	WS209	WS210
Project / Job Ref: A2212	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: A2212	Depth (m)	0.80	0.20	0.40	0.30	0.50
Reporting Date: 08/06/2021	DETS Sample No	546308	546309	546310	546311	546312

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	0.16	< 0.1	0.19	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.19	0.13
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.14	0.17
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1	0.58	0.19	0.70	0.53
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.24	< 0.1
Fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	0.65	0.31	1.58	0.79
Pyrene	mg/kg	< 0.1	MCERTS	< 0.1	0.64	0.41	1.88	0.79
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	0.27	0.19	0.99	0.30
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	0.31	0.24	1.08	0.37
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	0.43	0.24	2.49	0.69
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.81	0.19
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	0.28	0.16	2.25	0.58
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	0.24	< 0.1	1.26	0.40
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.25	< 0.1
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	0.27	< 0.1	1.15	0.40
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	3.8	1.7	15.2	5.3



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 21-06936	Date Sampled	26/05/21	26/05/21	26/05/21	26/05/21	26/05/21
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Claremont Road, Manchester	TP / BH No	WS201	WS202	WS203	WS204	WS205
Project / Job Ref: A2212	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: A2212	Depth (m)	0.50	0.70	0.40	0.60	0.50
Reporting Date: 08/06/2021	DETS Sample No	546303	546304	546305	546306	546307

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	< 3
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	3	< 3	< 3	< 3	< 3
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	165	< 10	< 10	< 10	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	168	< 21	< 21	< 21	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	5	< 3	< 3	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	31	< 10	< 10	< 10	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	36	< 21	< 21	< 21	< 21
Total >C5 - C35	mg/kg	< 42	NONE	204	< 42	< 42	< 42	< 42



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Soil Analysis Certificate - TPH CWG Banded

DETS Report No: 21-06936	Date Sampled	26/05/21	26/05/21	26/05/21	26/05/21	26/05/21
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Claremont Road, Manchester	TP / BH No	WS206	WS207	WS208	WS209	WS210
Project / Job Ref: A2212	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: A2212	Depth (m)	0.80	0.20	0.40	0.30	0.50
Reporting Date: 08/06/2021	DETS Sample No	546308	546309	546310	546311	546312

Determinand	Unit	RL	Accreditation					
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3	3
Aliphatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	7	5
Aliphatic >C21 - C34	mg/kg	< 10	MCERTS	< 10	< 10	< 10	192	< 10
Aliphatic (C5 - C34)	mg/kg	< 21	NONE	< 21	< 21	< 21	199	< 21
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	9
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	12
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	< 2	3	20
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	< 3	< 3	19	10
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	< 10	< 10	216	< 10
Aromatic (C5 - C35)	mg/kg	< 21	NONE	< 21	< 21	< 21	238	51
Total >C5 - C35	mg/kg	< 42	NONE	< 42	< 42	< 42	436	59



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Rose Lane
Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410



Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 21-06936	Date Sampled	26/05/21	26/05/21	26/05/21	26/05/21	26/05/21
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Claremont Road, Manchester	TP / BH No	WS201	WS202	WS203	WS204	WS205
Project / Job Ref: A2212	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: A2212	Depth (m)	0.50	0.70	0.40	0.60	0.50
Reporting Date: 08/06/2021	DETS Sample No	546303	546304	546305	546306	546307

Determinand	Unit	RL	Accreditation					
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 21-06936	Date Sampled	26/05/21	26/05/21	26/05/21	26/05/21	26/05/21
Earth Environmental & Geotechnical Ltd	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: Claremont Road, Manchester	TP / BH No	WS206	WS207	WS208	WS209	WS210
Project / Job Ref: A2212	Additional Refs	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Order No: A2212	Depth (m)	0.80	0.20	0.40	0.30	0.50
Reporting Date: 08/06/2021	DETS Sample No	546308	546309	546310	546311	546312

Determinand	Unit	RL	Accreditation					
Benzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
Toluene	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
p & m-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
o-xylene	ug/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	< 2
MTBE	ug/kg	< 5	MCERTS	< 5	< 5	< 5	< 5	< 5



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Soil Analysis Certificate - Sample Descriptions

DETS Report No: 21-06936	
Earth Environmental & Geotechnical Ltd	
Site Reference: Claremont Road, Manchester	
Project / Job Ref: A2212	
Order No: A2212	
Reporting Date: 08/06/2021	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
546303	WS201	None Supplied	0.50	13.1	Brown sandy clay with stones and brick
546304	WS202	None Supplied	0.70	20.8	Grey sandy clay with stones and brick
546305	WS203	None Supplied	0.40	14.8	Grey clayey sand
546306	WS204	None Supplied	0.60	26.1	Grey clay
546307	WS205	None Supplied	0.50	20.7	Brown clay
546308	WS206	None Supplied	0.80	22.2	Grey clay
546309	WS207	None Supplied	0.20	13.7	Grey gravelly clay with stones and brick
546310	WS208	None Supplied	0.40	16.7	Grey loamy clay with stones and gravel
546311	WS209	None Supplied	0.30	20	Grey loamy clay with stones and gravel
546312	WS210	None Supplied	0.50	24.4	Grey clay

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample ^{U/S}

Unsuitable Sample ^{U/S}



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 21-06936

Earth Environmental & Geotechnical Ltd

Site Reference: Claremont Road, Manchester

Project / Job Ref: A2212

Order No: A2212

Reporting Date: 08/06/2021

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Soil	D	Boron - Water Soluble	Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES	E012
Soil	AR	BTEX	Determination of BTEX by headspace GC-MS	E001
Soil	D	Cations	Determination of cations in soil by aqua-regia digestion followed by ICP-OES	E002
Soil	D	Chloride - Water Soluble (2:1)	Determination of chloride by extraction with water & analysed by ion chromatography	E009
Soil	AR	Chromium - Hexavalent	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphénylcarbazine followed by colorimetry	E016
Soil	AR	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E015
Soil	AR	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E015
Soil	D	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through extraction with cyclohexane	E011
Soil	AR	Diesel Range Organics (C10 - C24)	Determination of hexane/acetone extractable hydrocarbons by GC-FID	E004
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement	E022
Soil	AR	Electrical Conductivity	Determination of electrical conductivity by addition of water followed by electrometric measurement	E023
Soil	D	Elemental Sulphur	Determination of elemental sulphur by solvent extraction followed by GC-MS	E020
Soil	AR	EPH (C10 - C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH Product ID	Determination of acetone/hexane extractable hydrocarbons by GC-FID	E004
Soil	AR	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E004
Soil	D	Fluoride - Water Soluble	Determination of Fluoride by extraction with water & analysed by ion chromatography	E009
Soil	D	Fraction Organic Carbon (FOC)	Determination of TOC by combustion analyser.	E027
Soil	D	Organic Matter (SOM)	Determination of TOC by combustion analyser.	E027
Soil	D	TOC (Total Organic Carbon)	Determination of TOC by combustion analyser.	E027
Soil	AR	Exchangeable Ammonium	Determination of ammonium by discrete analyser.	E029
Soil	D	FOC (Fraction Organic Carbon)	Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	D	Loss on Ignition @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace	E019
Soil	D	Magnesium - Water Soluble	Determination of water soluble magnesium by extraction with water followed by ICP-OES	E025
Soil	D	Metals	Determination of metals by aqua-regia digestion followed by ICP-OES	E002
Soil	AR	Mineral Oil (C10 - C40)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge	E004
Soil	AR	Moisture Content	Moisture content; determined gravimetrically	E003
Soil	D	Nitrate - Water Soluble (2:1)	Determination of nitrate by extraction with water & analysed by ion chromatography	E009
Soil	D	Organic Matter	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	PAH - Speciated (EPA 16)	Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards	E005
Soil	AR	PCB - 7 Congeners	Determination of PCB by extraction with acetone and hexane followed by GC-MS	E008
Soil	D	Petroleum Ether Extract (PEE)	Gravimetrically determined through extraction with petroleum ether	E011
Soil	AR	pH	Determination of pH by addition of water followed by electrometric measurement	E007
Soil	AR	Phenols - Total (monohydric)	Determination of phenols by distillation followed by colorimetry	E021
Soil	D	Phosphate - Water Soluble (2:1)	Determination of phosphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Total	Determination of total sulphate by extraction with 10% HCl followed by ICP-OES	E013
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of sulphate by extraction with water & analysed by ion chromatography	E009
Soil	D	Sulphate (as SO4) - Water Soluble (2:1)	Determination of water soluble sulphate by extraction with water followed by ICP-OES	E014
Soil	AR	Sulphide	Determination of sulphide by distillation followed by colorimetry	E018
Soil	D	Sulphur - Total	Determination of total sulphur by extraction with aqua-regia followed by ICP-OES	E024
Soil	AR	SVOC	Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS	E006
Soil	AR	Thiocyanate (as SCN)	Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry	E017
Soil	D	Toluene Extractable Matter (TEM)	Gravimetrically determined through extraction with toluene	E011
Soil	D	Total Organic Carbon (TOC)	Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate	E010
Soil	AR	TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS	E004
Soil	AR	TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44)	Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS	E004
Soil	AR	VOCs	Determination of volatile organic compounds by headspace GC-MS	E001
Soil	AR	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E001

D Dried
AR As Received

APPENDIX C

SOIL WASTE ASSESSMENT

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:

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



GGULA-4S4D9-BY83L

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

Job name

A2212 Claremont Road, Manchester[2]

Description/Comments

Project

A2212

Site

Claremont Road, Manchester

Classified by

Name:

Luke Glover

Date:

15 Jun 2021 10:35 GMT

Telephone:

Company:

Earth Environmental & Geotechnical Ltd

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

Hazardous Waste Classification

Date

-

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	WS1	0.3	Hazardous	HP 7, HP 11	2
2	WS1[2]	1	Non Hazardous		5
3	WS2	0.6	Non Hazardous		8
4	WS3	0.6	Non Hazardous		11
5	WS4	0.4	Non Hazardous		14
6	WS4[2]	0.9	Non Hazardous		17
7	WS5	0.5	Non Hazardous		20
8	WS201	0.50	Non Hazardous		23
9	WS202	0.70	Non Hazardous		26
10	WS203	0.40	Non Hazardous		28
11	WS204	0.60	Non Hazardous		30
12	WS205	0.50	Non Hazardous		32
13	WS206	0.80	Non Hazardous		34
14	WS207	0.20	Non Hazardous		36
15	WS208	0.40	Non Hazardous		38
16	WS209	0.30	Hazardous	HP 7, HP 10, HP 14	40
17	WS210	0.50	Non Hazardous		43

Related documents

#	Name	Description
1	Example waste stream template for contaminated soils	waste stream template used to create this Job

Report

Created by: Luke Glover

Created date: 15 Jun 2021 10:35 GMT

Appendices	Page
Appendix A: Classifier defined and non CLP determinands	46
Appendix B: Rationale for selection of metal species	47
Appendix C: Version	48

Classification of sample: WS1

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

Sample details

Sample name:	LoW Code:
WS1	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
0.3 m	
Moisture content:	
12.4%	
(dry weight correction)	

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1B; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.242%)

HP 11: Mutagenic "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

Muta. 1B; H340 "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.242%)

Determinands

Moisture content: 12.4% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used	
	CLP index number	EC Number	CAS Number									
1	 arsenic { arsenic trioxide } 033-003-00-0 215-481-4 1327-53-3				14	mg/kg	1.32	16.445	mg/kg	0.00164 %	✓	
2	 beryllium { beryllium oxide } 004-003-00-8 215-133-1 1304-56-9				0.6	mg/kg	2.775	1.482	mg/kg	0.000148 %	✓	
3	 boron { diboron trioxide; boric oxide } 005-008-00-8 215-125-8 1303-86-2				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
4	 cadmium { cadmium oxide } 048-002-00-0 215-146-2 1306-19-0				1.4	mg/kg	1.142	1.423	mg/kg	0.000142 %	✓	
5	 chromium in chromium(III) compounds {  chromium(III) oxide (worst case) } 											



#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	323	mg/kg		287.367	mg/kg	0.0287 %	✓	
	082-001-00-6											
9	mercury { mercury dichloride }				<1	mg/kg	1.353	<1.353	mg/kg	<0.000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	nickel { nickel chromate }				11	mg/kg	2.976	29.127	mg/kg	0.00291 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	selenium { nickel selenate }				<3	mg/kg	2.554	<7.662	mg/kg	<0.000766 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
12	zinc { zinc sulphate }				175	mg/kg	2.469	384.455	mg/kg	0.0384 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
13	TPH (C6 to C40) petroleum group				2717	mg/kg		2417.26	mg/kg	0.242 %	✓	
			TPH									
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
15	benzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
16	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
17	ethylbenzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
18	xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<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]									
19	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 }				<2	mg/kg	1.884	<3.768	mg/kg	<0.000377 %		<LOD
	006-007-00-5											
20	pH				7.6	pH		7.6	pH	7.6 pH		
			PH									
21	naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
22	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8									
23	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9									
24	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7									
25	phenanthrene				0.49	mg/kg		0.436	mg/kg	0.0000436 %	✓	
		201-581-5	85-01-8									
26	anthracene				0.17	mg/kg		0.151	mg/kg	0.0000151 %	✓	
		204-371-1	120-12-7									
27	fluoranthene				1.28	mg/kg		1.139	mg/kg	0.000114 %	✓	
		205-912-4	206-44-0									
28	pyrene				1.36	mg/kg		1.21	mg/kg	0.000121 %	✓	
		204-927-3	129-00-0									
29	benzo[a]anthracene				0.66	mg/kg		0.587	mg/kg	0.0000587 %	✓	
	601-033-00-9	200-280-6	56-55-3									
30	chrysene				0.72	mg/kg		0.641	mg/kg	0.0000641 %	✓	
	601-048-00-0	205-923-4	218-01-9									
31	benzo[b]fluoranthene				0.73	mg/kg		0.649	mg/kg	0.0000649 %	✓	
	601-034-00-4	205-911-9	205-99-2									
32	benzo[k]fluoranthene				0.13	mg/kg		0.116	mg/kg	0.0000116 %	✓	
	601-036-00-5	205-916-6	207-08-9									
33	benzo[a]pyrene; benzo[def]chrysene				0.4	mg/kg		0.356	mg/kg	0.0000356 %	✓	
	601-032-00-3	200-028-5	50-32-8									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
34	indeno[123-cd]pyrene				0.5 mg/kg		0.445 mg/kg	0.0000445 %	✓	
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				0.34 mg/kg		0.302 mg/kg	0.0000302 %	✓	
		601-041-00-2	200-181-8							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
		604-001-00-2	203-632-7							
Total:								0.338 %		

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 Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No free phase product.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.242%)

Classification of sample: WS1[2]

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

Sample details

Sample name:	LoW Code:
WS1[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
17.7%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 17.7% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				12	mg/kg	1.32	13.461	mg/kg	0.00135 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				1	mg/kg	2.775	2.358	mg/kg	0.000236 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
3	boron { diboron trioxide; boric oxide }				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2									
4	cadmium { cadmium oxide }				0.2	mg/kg	1.142	0.194	mg/kg	0.0000194 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				19	mg/kg	1.462	23.594	mg/kg	0.00236 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2	mg/kg	2.27	<4.54	mg/kg	<0.000454 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				30	mg/kg	1.126	28.697	mg/kg	0.00287 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	127	mg/kg		107.901	mg/kg	0.0108 %	✓	
	082-001-00-6											
9	mercury { mercury dichloride }				<1	mg/kg	1.353	<1.353	mg/kg	<0.000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	nickel { nickel chromate }				20	mg/kg	2.976	50.574	mg/kg	0.00506 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	selenium { nickel selenate }				<3	mg/kg	2.554	<7.662	mg/kg	<0.000766 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
12	zinc { zinc sulphate }				55	mg/kg	2.469	115.388	mg/kg	0.0115 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
13	TPH (C6 to C40) petroleum group		TPH		156	mg/kg		132.54	mg/kg	0.0133 %	✓	
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
15	benzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	toluene				0.01 mg/kg		0.0085 mg/kg	0.00000085 %	✓	
	601-021-00-3	203-625-9	108-88-3							
17	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
18	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<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]							
19	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 }				<2 mg/kg	1.884	<3.768 mg/kg	<0.000377 %		<LOD
	006-007-00-5									
20	pH				8.3 pH		8.3 pH	8.3 pH		
			PH							
21	naphthalene				5.02 mg/kg		4.265 mg/kg	0.000427 %	✓	
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				0.21 mg/kg		0.178 mg/kg	0.0000178 %	✓	
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				0.16 mg/kg		0.136 mg/kg	0.0000136 %	✓	
		201-695-5	86-73-7							
25	phenanthrene				1.54 mg/kg		1.308 mg/kg	0.000131 %	✓	
		201-581-5	85-01-8							
26	anthracene				1.52 mg/kg		1.291 mg/kg	0.000129 %	✓	
		204-371-1	120-12-7							
27	fluoranthene				0.89 mg/kg		0.756 mg/kg	0.0000756 %	✓	
		205-912-4	206-44-0							
28	pyrene				0.87 mg/kg		0.739 mg/kg	0.0000739 %	✓	
		204-927-3	129-00-0							
29	benzo[a]anthracene				0.9 mg/kg		0.765 mg/kg	0.0000765 %	✓	
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				2.08 mg/kg		1.767 mg/kg	0.000177 %	✓	
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				1.58 mg/kg		1.342 mg/kg	0.000134 %	✓	
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				1.37 mg/kg		1.164 mg/kg	0.000116 %	✓	
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				4.79 mg/kg		4.07 mg/kg	0.000407 %	✓	
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				1.76 mg/kg		1.495 mg/kg	0.00015 %	✓	
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				0.55 mg/kg		0.467 mg/kg	0.0000467 %	✓	
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				2.6 mg/kg		2.209 mg/kg	0.000221 %	✓	
		205-883-8	191-24-2							
37	phenol				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.0519 %		

Key

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



Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No free phase product.

Hazard Statements hit:

Flam. Liq. 2; H225 "Highly flammable liquid and vapour."

Because of determinand:

toluene: (conc.: 8.5e-07%)

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0133%)

Classification of sample: WS2

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

Sample details

Sample name:	LoW Code:
WS2	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.6 m	
Moisture content:	
17.7%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 17.7% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				11	mg/kg	1.32	12.339	mg/kg	0.00123 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				0.9	mg/kg	2.775	2.122	mg/kg	0.000212 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
3	boron { diboron trioxide; boric oxide }				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2									
4	cadmium { cadmium oxide }				0.3	mg/kg	1.142	0.291	mg/kg	0.0000291 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				14	mg/kg	1.462	17.385	mg/kg	0.00174 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2	mg/kg	2.27	<4.54	mg/kg	<0.000454 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				91	mg/kg	1.126	87.048	mg/kg	0.0087 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	97	mg/kg		82.413	mg/kg	0.00824 %	✓	
	082-001-00-6											
9	mercury { mercury dichloride }				<1	mg/kg	1.353	<1.353	mg/kg	<0.000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	nickel { nickel chromate }				17	mg/kg	2.976	42.988	mg/kg	0.0043 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	selenium { nickel selenate }				<3	mg/kg	2.554	<7.662	mg/kg	<0.000766 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
12	zinc { zinc sulphate }				507	mg/kg	2.469	1063.665	mg/kg	0.106 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
13	TPH (C6 to C40) petroleum group				226	mg/kg		192.014	mg/kg	0.0192 %	✓	
			TPH									
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
15	benzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
17	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
18	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<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]							
19	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 }				<2 mg/kg	1.884	<3.768 mg/kg	<0.000377 %		<LOD
	006-007-00-5									
20	pH				7.9 pH		7.9 pH	7.9 pH		
21	naphthalene				0.13 mg/kg		0.11 mg/kg	0.000011 %	✓	
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				0.15 mg/kg		0.127 mg/kg	0.0000127 %	✓	
		201-469-6	83-32-9							
24	fluorene				0.16 mg/kg		0.136 mg/kg	0.0000136 %	✓	
		201-695-5	86-73-7							
25	phenanthrene				0.81 mg/kg		0.688 mg/kg	0.0000688 %	✓	
		201-581-5	85-01-8							
26	anthracene				0.3 mg/kg		0.255 mg/kg	0.0000255 %	✓	
		204-371-1	120-12-7							
27	fluoranthene				1.35 mg/kg		1.147 mg/kg	0.000115 %	✓	
		205-912-4	206-44-0							
28	pyrene				1.37 mg/kg		1.164 mg/kg	0.000116 %	✓	
		204-927-3	129-00-0							
29	benzo[a]anthracene				0.64 mg/kg		0.544 mg/kg	0.0000544 %	✓	
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				0.46 mg/kg		0.391 mg/kg	0.0000391 %	✓	
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				0.72 mg/kg		0.612 mg/kg	0.0000612 %	✓	
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				0.15 mg/kg		0.127 mg/kg	0.0000127 %	✓	
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				0.45 mg/kg		0.382 mg/kg	0.0000382 %	✓	
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				0.51 mg/kg		0.433 mg/kg	0.0000433 %	✓	
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				0.33 mg/kg		0.28 mg/kg	0.000028 %	✓	
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				0.32 mg/kg		0.272 mg/kg	0.0000272 %	✓	
		205-883-8	191-24-2							
37	phenol				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.153 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No free phase product.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0192%)

Classification of sample: WS3

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

Sample details

Sample name:	LoW Code:
WS3	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.6 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
16%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 16% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				8 mg/kg	1.32	9.106 mg/kg	0.000911 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				0.7 mg/kg	2.775	1.675 mg/kg	0.000167 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.2 mg/kg	1.142	<0.228 mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17 mg/kg	1.462	21.419 mg/kg	0.00214 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2 mg/kg	2.27	<4.54 mg/kg	<0.000454 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				24 mg/kg	1.126	23.294 mg/kg	0.00233 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	53 mg/kg		45.69 mg/kg	0.00457 %	✓	
	082-001-00-6									
9	mercury { mercury dichloride }				<1 mg/kg	1.353	<1.353 mg/kg	<0.000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	nickel { nickel chromate }				13 mg/kg	2.976	33.355 mg/kg	0.00334 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<3 mg/kg	2.554	<7.662 mg/kg	<0.000766 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc sulphate }				49 mg/kg	2.469	104.306 mg/kg	0.0104 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
13	TPH (C6 to C40) petroleum group		TPH		301 mg/kg		259.483 mg/kg	0.0259 %	✓	
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2							



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<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]								
19	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 }				<2 mg/kg	1.884	<3.768 mg/kg	<0.000377 %			<LOD
	006-007-00-5										
20	pH				7.8 pH		7.8 pH	7.8 pH			
			PH								
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-469-6	83-32-9								
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				0.56 mg/kg		0.483 mg/kg	0.0000483 %		✓	
		201-581-5	85-01-8								
26	anthracene				0.15 mg/kg		0.129 mg/kg	0.0000129 %		✓	
		204-371-1	120-12-7								
27	fluoranthene				0.74 mg/kg		0.638 mg/kg	0.0000638 %		✓	
		205-912-4	206-44-0								
28	pyrene				0.71 mg/kg		0.612 mg/kg	0.0000612 %		✓	
		204-927-3	129-00-0								
29	benzo[a]anthracene				0.51 mg/kg		0.44 mg/kg	0.000044 %		✓	
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				0.26 mg/kg		0.224 mg/kg	0.0000224 %		✓	
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				0.51 mg/kg		0.44 mg/kg	0.000044 %		✓	
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				0.32 mg/kg		0.276 mg/kg	0.0000276 %		✓	
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				0.45 mg/kg		0.388 mg/kg	0.0000388 %		✓	
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				0.32 mg/kg		0.276 mg/kg	0.0000276 %		✓	
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				0.29 mg/kg		0.25 mg/kg	0.000025 %		✓	
		205-883-8	191-24-2								
37	phenol				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
Total:									0.0526 %		

Key

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



Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No free phase product.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0259%)

Classification of sample: WS4

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

Sample details

Sample name:	LoW Code:
WS4	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.4 m	
Moisture content:	
15.1%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 15.1% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				18	mg/kg	1.32	20.648	mg/kg	0.00206 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				1	mg/kg	2.775	2.411	mg/kg	0.000241 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
3	boron { diboron trioxide; boric oxide }				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2									
4	cadmium { cadmium oxide }				1.6	mg/kg	1.142	1.588	mg/kg	0.000159 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				19	mg/kg	1.462	24.126	mg/kg	0.00241 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2	mg/kg	2.27	<4.54	mg/kg	<0.000454 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				51	mg/kg	1.126	49.887	mg/kg	0.00499 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	209	mg/kg		181.581	mg/kg	0.0182 %	✓	
	082-001-00-6											
9	mercury { mercury dichloride }				<1	mg/kg	1.353	<1.353	mg/kg	<0.000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	nickel { nickel chromate }				26	mg/kg	2.976	67.231	mg/kg	0.00672 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	selenium { nickel selenate }				<3	mg/kg	2.554	<7.662	mg/kg	<0.000766 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
12	zinc { zinc sulphate }				471	mg/kg	2.469	1010.459	mg/kg	0.101 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
13	TPH (C6 to C40) petroleum group		TPH		568	mg/kg		493.484	mg/kg	0.0493 %	✓	
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
15	benzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
17	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
18	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<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]							
19	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 }				<2 mg/kg	1.884	<3.768 mg/kg	<0.000377 %		<LOD
	006-007-00-5									
20	pH				7.8 pH		7.8 pH	7.8 pH		
21	naphthalene				0.2 mg/kg		0.174 mg/kg	0.0000174 %	✓	
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				0.31 mg/kg		0.269 mg/kg	0.0000269 %	✓	
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				0.53 mg/kg		0.46 mg/kg	0.000046 %	✓	
		205-912-4	206-44-0							
28	pyrene				0.55 mg/kg		0.478 mg/kg	0.0000478 %	✓	
		204-927-3	129-00-0							
29	benzo[a]anthracene				0.4 mg/kg		0.348 mg/kg	0.0000348 %	✓	
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				0.2 mg/kg		0.174 mg/kg	0.0000174 %	✓	
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				0.46 mg/kg		0.4 mg/kg	0.00004 %	✓	
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				0.24 mg/kg		0.209 mg/kg	0.0000209 %	✓	
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				0.42 mg/kg		0.365 mg/kg	0.0000365 %	✓	
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				0.31 mg/kg		0.269 mg/kg	0.0000269 %	✓	
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				0.28 mg/kg		0.243 mg/kg	0.0000243 %	✓	
		205-883-8	191-24-2							
37	phenol				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.188 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No free phase product.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0493%)

Classification of sample: WS4[2]

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

Sample details

Sample name:	LoW Code:
WS4[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.9 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
22.1%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 22.1% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				13	mg/kg	1.32	14.058	mg/kg	0.00141 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				0.9	mg/kg	2.775	2.046	mg/kg	0.000205 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
3	boron { diboron trioxide; boric oxide }				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2									
4	cadmium { cadmium oxide }				0.7	mg/kg	1.142	0.655	mg/kg	0.0000655 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17	mg/kg	1.462	20.349	mg/kg	0.00203 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2	mg/kg	2.27	<4.54	mg/kg	<0.000454 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				39	mg/kg	1.126	35.962	mg/kg	0.0036 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	268	mg/kg		219.492	mg/kg	0.0219 %	✓	
	082-001-00-6											
9	mercury { mercury dichloride }				<1	mg/kg	1.353	<1.353	mg/kg	<0.000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	nickel { nickel chromate }				19	mg/kg	2.976	46.314	mg/kg	0.00463 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	selenium { nickel selenate }				<3	mg/kg	2.554	<7.662	mg/kg	<0.000766 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
12	zinc { zinc sulphate }				272	mg/kg	2.469	550.081	mg/kg	0.055 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
13	TPH (C6 to C40) petroleum group		TPH		193	mg/kg		158.067	mg/kg	0.0158 %	✓	
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
15	benzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<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]								
19	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 }				<2 mg/kg	1.884	<3.768 mg/kg	<0.000377 %			<LOD
	006-007-00-5										
20	pH				7.6 pH		7.6 pH	7.6 pH			
			PH								
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-469-6	83-32-9								
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				0.14 mg/kg		0.115 mg/kg	0.0000115 %		✓	
		201-581-5	85-01-8								
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		204-371-1	120-12-7								
27	fluoranthene				0.31 mg/kg		0.254 mg/kg	0.0000254 %		✓	
		205-912-4	206-44-0								
28	pyrene				0.31 mg/kg		0.254 mg/kg	0.0000254 %		✓	
		204-927-3	129-00-0								
29	benzo[a]anthracene				0.32 mg/kg		0.262 mg/kg	0.0000262 %		✓	
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				0.31 mg/kg		0.254 mg/kg	0.0000254 %		✓	
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				0.14 mg/kg		0.115 mg/kg	0.0000115 %		✓	
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				0.38 mg/kg		0.311 mg/kg	0.0000311 %		✓	
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				0.22 mg/kg		0.18 mg/kg	0.000018 %		✓	
		205-883-8	191-24-2								
37	phenol				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
Total:									0.107 %		

Key

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



Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No free phase product.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0158%)

Classification of sample: WS5

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

Sample details

Sample name:	LoW Code:
WS5	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.5 m	
Moisture content:	
15.1%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 15.1% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				15	mg/kg	1.32	17.207	mg/kg	0.00172 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				0.6	mg/kg	2.775	1.447	mg/kg	0.000145 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
3	boron { diboron trioxide; boric oxide }				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2									
4	cadmium { cadmium oxide }				0.5	mg/kg	1.142	0.496	mg/kg	0.0000496 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15	mg/kg	1.462	19.047	mg/kg	0.0019 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2	mg/kg	2.27	<4.54	mg/kg	<0.000454 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				34	mg/kg	1.126	33.258	mg/kg	0.00333 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	218	mg/kg		189.401	mg/kg	0.0189 %	✓	
	082-001-00-6											
9	mercury { mercury dichloride }				<1	mg/kg	1.353	<1.353	mg/kg	<0.000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	nickel { nickel chromate }				22	mg/kg	2.976	56.888	mg/kg	0.00569 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	selenium { nickel selenate }				<3	mg/kg	2.554	<7.662	mg/kg	<0.000766 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
12	zinc { zinc sulphate }				138	mg/kg	2.469	296.058	mg/kg	0.0296 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
13	TPH (C6 to C40) petroleum group		TPH		369	mg/kg		320.591	mg/kg	0.0321 %	✓	
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
15	benzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
17	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
18	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<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]							
19	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 }				<2 mg/kg	1.884	<3.768 mg/kg	<0.000377 %		<LOD
	006-007-00-5									
20	pH				7.8 pH		7.8 pH	7.8 pH		
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				0.19 mg/kg		0.165 mg/kg	0.0000165 %	✓	
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				0.42 mg/kg		0.365 mg/kg	0.0000365 %	✓	
		205-912-4	206-44-0							
28	pyrene				0.41 mg/kg		0.356 mg/kg	0.0000356 %	✓	
		204-927-3	129-00-0							
29	benzo[a]anthracene				0.35 mg/kg		0.304 mg/kg	0.0000304 %	✓	
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				0.33 mg/kg		0.287 mg/kg	0.0000287 %	✓	
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				0.16 mg/kg		0.139 mg/kg	0.0000139 %	✓	
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				0.37 mg/kg		0.321 mg/kg	0.0000321 %	✓	
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				0.2 mg/kg		0.174 mg/kg	0.0000174 %	✓	
		205-883-8	191-24-2							
37	phenol				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.096 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No free phase product.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0321%)

Classification of sample: WS201

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

Sample details

Sample name:	LoW Code:
WS201	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13.1%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 13.1% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				13 mg/kg	1.32	15.176 mg/kg	0.00152 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	beryllium { beryllium oxide }				<0.5 mg/kg	2.775	<1.388 mg/kg	<0.000139 %		<LOD
	004-003-00-8	215-133-1	1304-56-9							
3	boron { diboron trioxide; boric oxide }				<1 mg/kg	3.22	<3.22 mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				0.4 mg/kg	1.142	0.404 mg/kg	0.0000404 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				17 mg/kg	1.462	21.969 mg/kg	0.0022 %	✓	
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2 mg/kg	2.27	<4.54 mg/kg	<0.000454 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				49 mg/kg	1.126	48.779 mg/kg	0.00488 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	1040 mg/kg		919.54 mg/kg	0.092 %	✓	
	082-001-00-6									
9	mercury { mercury dichloride }				<1 mg/kg	1.353	<1.353 mg/kg	<0.000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	nickel { nickel chromate }				7 mg/kg	2.976	18.421 mg/kg	0.00184 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
11	selenium { nickel selenate }				<3 mg/kg	2.554	<7.662 mg/kg	<0.000766 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
12	zinc { zinc sulphate }				19 mg/kg	2.469	41.482 mg/kg	0.00415 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
13	TPH (C6 to C40) petroleum group		TPH		204 mg/kg		180.371 mg/kg	0.018 %	✓	
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
15	benzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2							



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<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]								
19	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 }				<2 mg/kg	1.884	<3.768 mg/kg	<0.000377 %			<LOD
	006-007-00-5										
20	pH				7.8 pH		7.8 pH	7.8 pH			
			PH								
21	naphthalene				0.14 mg/kg		0.124 mg/kg	0.0000124 %		✓	
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-469-6	83-32-9								
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				0.63 mg/kg		0.557 mg/kg	0.0000557 %		✓	
		201-581-5	85-01-8								
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		204-371-1	120-12-7								
27	fluoranthene				1.23 mg/kg		1.088 mg/kg	0.000109 %		✓	
		205-912-4	206-44-0								
28	pyrene				1.29 mg/kg		1.141 mg/kg	0.000114 %		✓	
		204-927-3	129-00-0								
29	benzo[a]anthracene				0.67 mg/kg		0.592 mg/kg	0.0000592 %		✓	
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				0.69 mg/kg		0.61 mg/kg	0.000061 %		✓	
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				0.91 mg/kg		0.805 mg/kg	0.0000805 %		✓	
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				0.29 mg/kg		0.256 mg/kg	0.0000256 %		✓	
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				0.67 mg/kg		0.592 mg/kg	0.0000592 %		✓	
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				0.35 mg/kg		0.309 mg/kg	0.0000309 %		✓	
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				0.36 mg/kg		0.318 mg/kg	0.0000318 %		✓	
		205-883-8	191-24-2								
37	phenol				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
Total:									0.128 %		

Key

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



Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No free phase product.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.018%)

Classification of sample: WS202

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

Sample details

Sample name:	LoW Code:
WS202	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.70 m	
Moisture content:	
20.8%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 20.8% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				24	mg/kg	1.32	26.232	mg/kg	0.00262 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				1.1	mg/kg	2.775	2.527	mg/kg	0.000253 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
3	boron { diboron trioxide; boric oxide }				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2									
4	cadmium { cadmium oxide }				0.2	mg/kg	1.142	0.189	mg/kg	0.0000189 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				12	mg/kg	1.462	14.519	mg/kg	0.00145 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2	mg/kg	2.27	<4.54	mg/kg	<0.000454 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				64	mg/kg	1.126	59.65	mg/kg	0.00596 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	228	mg/kg		188.742	mg/kg	0.0189 %	✓	
	082-001-00-6											
9	mercury { mercury dichloride }				<1	mg/kg	1.353	<1.353	mg/kg	<0.000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	nickel { nickel chromate }				10	mg/kg	2.976	24.638	mg/kg	0.00246 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	selenium { nickel selenate }				<3	mg/kg	2.554	<7.662	mg/kg	<0.000766 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
12	zinc { zinc sulphate }				24	mg/kg	2.469	49.059	mg/kg	0.00491 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
13	TPH (C6 to C40) petroleum group				<42	mg/kg		<42	mg/kg	<0.0042 %		<LOD
			TPH									
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
15	benzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
17	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
18	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<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]							
19	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 }				<2 mg/kg	1.884	<3.768 mg/kg	<0.000377 %		<LOD
	006-007-00-5									
20	pH				7.8 pH		7.8 pH	7.8 pH		
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.0432 %		

Key

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

Classification of sample: WS203

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

Sample details

Sample name:	LoW Code:
WS203	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.40 m	
Moisture content:	
14.8%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 14.8% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				8	mg/kg	1.32	9.201	mg/kg	0.00092 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				0.5	mg/kg	2.775	1.209	mg/kg	0.000121 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
3	boron { diboron trioxide; boric oxide }				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				8	mg/kg	1.462	10.185	mg/kg	0.00102 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2	mg/kg	2.27	<4.54	mg/kg	<0.000454 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				25	mg/kg	1.126	24.518	mg/kg	0.00245 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	42	mg/kg		36.585	mg/kg	0.00366 %	✓	
	082-001-00-6											
9	mercury { mercury dichloride }				<1	mg/kg	1.353	<1.353	mg/kg	<0.000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	nickel { nickel chromate }				7	mg/kg	2.976	18.148	mg/kg	0.00181 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	selenium { nickel selenate }				<3	mg/kg	2.554	<7.662	mg/kg	<0.000766 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
12	zinc { zinc sulphate }				13	mg/kg	2.469	27.962	mg/kg	0.0028 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
13	TPH (C6 to C40) petroleum group				<42	mg/kg		<42	mg/kg	<0.0042 %		<LOD
			TPH									
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
15	benzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
17	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
18	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<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]							
19	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 }				<2 mg/kg	1.884	<3.768 mg/kg	<0.000377 %		<LOD
	006-007-00-5									
20	pH				7.9 pH		7.9 pH	7.9 pH		
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.0194 %		

Key

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

Classification of sample: WS204

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

Sample details

Sample name:	LoW Code:
WS204	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.60 m	
Moisture content:	
26.1%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 26.1% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				11	mg/kg	1.32	11.518	mg/kg	0.00115 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				1.1	mg/kg	2.775	2.421	mg/kg	0.000242 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
3	boron { diboron trioxide; boric oxide }				1.5	mg/kg	3.22	3.83	mg/kg	0.000383 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				18	mg/kg	1.462	20.863	mg/kg	0.00209 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2	mg/kg	2.27	<4.54	mg/kg	<0.000454 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				25	mg/kg	1.126	22.321	mg/kg	0.00223 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	34	mg/kg		26.963	mg/kg	0.0027 %	✓	
	082-001-00-6											
9	mercury { mercury dichloride }				<1	mg/kg	1.353	<1.353	mg/kg	<0.000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	nickel { nickel chromate }				14	mg/kg	2.976	33.043	mg/kg	0.0033 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	selenium { nickel selenate }				<3	mg/kg	2.554	<7.662	mg/kg	<0.000766 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
12	zinc { zinc sulphate }				24	mg/kg	2.469	46.997	mg/kg	0.0047 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
13	TPH (C6 to C40) petroleum group				<42	mg/kg		<42	mg/kg	<0.0042 %		<LOD
			TPH									
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
15	benzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
17	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
18	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<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]							
19	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 }				<2 mg/kg	1.884	<3.768 mg/kg	<0.000377 %		<LOD
	006-007-00-5									
20	pH				7.6 pH		7.6 pH	7.6 pH		
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.0231 %		

Key

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

Classification of sample: WS205

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

Sample details

Sample name:	LoW Code:
WS205	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.50 m	
Moisture content:	
20.7%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 20.7% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				10	mg/kg	1.32	10.939	mg/kg	0.00109 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				1	mg/kg	2.775	2.299	mg/kg	0.00023 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
3	boron { diboron trioxide; boric oxide }				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2									
4	cadmium { cadmium oxide }				<0.2	mg/kg	1.142	<0.228	mg/kg	<0.0000228 %		<LOD
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				24	mg/kg	1.462	29.062	mg/kg	0.00291 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2	mg/kg	2.27	<4.54	mg/kg	<0.000454 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				25	mg/kg	1.126	23.32	mg/kg	0.00233 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	23	mg/kg		19.056	mg/kg	0.00191 %	✓	
	082-001-00-6											
9	mercury { mercury dichloride }				<1	mg/kg	1.353	<1.353	mg/kg	<0.000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	nickel { nickel chromate }				22	mg/kg	2.976	54.248	mg/kg	0.00542 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	selenium { nickel selenate }				<3	mg/kg	2.554	<7.662	mg/kg	<0.000766 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
12	zinc { zinc sulphate }				27	mg/kg	2.469	55.237	mg/kg	0.00552 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
13	TPH (C6 to C40) petroleum group				<42	mg/kg		<42	mg/kg	<0.0042 %		<LOD
			TPH									
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
15	benzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
17	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
18	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<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]							
19	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 }				<2 mg/kg	1.884	<3.768 mg/kg	<0.000377 %		<LOD
	006-007-00-5									
20	pH				6.8 pH		6.8 pH	6.8 pH		
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.0261 %		

Key

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

Classification of sample: WS206

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

Sample details

Sample name:	LoW Code:
WS206	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.80 m	
Moisture content:	
22.2%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 22.2% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				16	mg/kg	1.32	17.287	mg/kg	0.00173 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				0.9	mg/kg	2.775	2.044	mg/kg	0.000204 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
3	boron { diboron trioxide; boric oxide }				2.5	mg/kg	3.22	6.587	mg/kg	0.000659 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
4	cadmium { cadmium oxide }				0.3	mg/kg	1.142	0.28	mg/kg	0.000028 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				13	mg/kg	1.462	15.548	mg/kg	0.00155 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2	mg/kg	2.27	<4.54	mg/kg	<0.000454 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				65	mg/kg	1.126	59.888	mg/kg	0.00599 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	179	mg/kg		146.481	mg/kg	0.0146 %	✓	
	082-001-00-6											
9	mercury { mercury dichloride }				<1	mg/kg	1.353	<1.353	mg/kg	<0.000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	nickel { nickel chromate }				17	mg/kg	2.976	41.405	mg/kg	0.00414 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	selenium { nickel selenate }				<3	mg/kg	2.554	<7.662	mg/kg	<0.000766 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
12	zinc { zinc sulphate }				23	mg/kg	2.469	46.476	mg/kg	0.00465 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
13	TPH (C6 to C40) petroleum group				<42	mg/kg		<42	mg/kg	<0.0042 %		<LOD
			TPH									
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
15	benzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
17	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
18	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<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]							
19	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 }				<2 mg/kg	1.884	<3.768 mg/kg	<0.000377 %		<LOD
	006-007-00-5									
20	pH				6.8 pH		6.8 pH	6.8 pH		
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.0399 %		

Key

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

Classification of sample: WS207

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

Sample details

Sample name:	LoW Code:
WS207	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.20 m	
Moisture content:	
13.7%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 13.7% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				27	mg/kg	1.32	31.353	mg/kg	0.00314 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				1.2	mg/kg	2.775	2.929	mg/kg	0.000293 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
3	boron { diboron trioxide; boric oxide }				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2									
4	cadmium { cadmium oxide }				1.1	mg/kg	1.142	1.105	mg/kg	0.000111 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				13	mg/kg	1.462	16.711	mg/kg	0.00167 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2	mg/kg	2.27	<4.54	mg/kg	<0.000454 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				89	mg/kg	1.126	88.13	mg/kg	0.00881 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	468	mg/kg		411.609	mg/kg	0.0412 %	✓	
	082-001-00-6											
9	mercury { mercury dichloride }				<1	mg/kg	1.353	<1.353	mg/kg	<0.000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
10	nickel { nickel chromate }				22	mg/kg	2.976	57.588	mg/kg	0.00576 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	selenium { nickel selenate }				<3	mg/kg	2.554	<7.662	mg/kg	<0.000766 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
12	zinc { zinc sulphate }				31	mg/kg	2.469	67.325	mg/kg	0.00673 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
13	TPH (C6 to C40) petroleum group				<42	mg/kg		<42	mg/kg	<0.0042 %		<LOD
			TPH									
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
15	benzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
17	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
18	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<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]							
19	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 }				<2 mg/kg	1.884	<3.768 mg/kg	<0.000377 %		<LOD
	006-007-00-5									
20	pH				7.1 pH		7.1 pH	7.1 pH		
21	naphthalene				0.16 mg/kg		0.141 mg/kg	0.0000141 %	✓	
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				0.58 mg/kg		0.51 mg/kg	0.000051 %	✓	
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				0.65 mg/kg		0.572 mg/kg	0.0000572 %	✓	
		205-912-4	206-44-0							
28	pyrene				0.64 mg/kg		0.563 mg/kg	0.0000563 %	✓	
		204-927-3	129-00-0							
29	benzo[a]anthracene				0.27 mg/kg		0.237 mg/kg	0.0000237 %	✓	
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				0.31 mg/kg		0.273 mg/kg	0.0000273 %	✓	
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				0.43 mg/kg		0.378 mg/kg	0.0000378 %	✓	
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				0.28 mg/kg		0.246 mg/kg	0.0000246 %	✓	
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				0.24 mg/kg		0.211 mg/kg	0.0000211 %	✓	
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				0.27 mg/kg		0.237 mg/kg	0.0000237 %	✓	
		205-883-8	191-24-2							
37	phenol				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.0745 %		

Key

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

Classification of sample: WS208

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

Sample details

Sample name:	LoW Code:
WS208	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.40 m	
Moisture content:	
16.7%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 16.7% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				38	mg/kg	1.32	42.993	mg/kg	0.0043 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				1.6	mg/kg	2.775	3.805	mg/kg	0.000381 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
3	boron { diboron trioxide; boric oxide }				<1	mg/kg	3.22	<3.22	mg/kg	<0.000322 %		<LOD
	005-008-00-8	215-125-8	1303-86-2									
4	cadmium { cadmium oxide }				2.7	mg/kg	1.142	2.643	mg/kg	0.000264 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				21	mg/kg	1.462	26.3	mg/kg	0.00263 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2	mg/kg	2.27	<4.54	mg/kg	<0.000454 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				294	mg/kg	1.126	283.643	mg/kg	0.0284 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	271	mg/kg		232.219	mg/kg	0.0232 %	✓	
	082-001-00-6											
9	mercury { mercury dichloride }				1	mg/kg	1.353	1.16	mg/kg	0.000116 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
10	nickel { nickel chromate }				44	mg/kg	2.976	112.216	mg/kg	0.0112 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	selenium { nickel selenate }				<3	mg/kg	2.554	<7.662	mg/kg	<0.000766 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
12	zinc { zinc sulphate }				42	mg/kg	2.469	88.869	mg/kg	0.00889 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
13	TPH (C6 to C40) petroleum group				<42	mg/kg		<42	mg/kg	<0.0042 %		<LOD
			TPH									
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
15	benzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
17	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
18	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<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]							
19	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 }				<2 mg/kg	1.884	<3.768 mg/kg	<0.000377 %		<LOD
	006-007-00-5									
20	pH				7 pH		7 pH	7pH		
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				0.19 mg/kg		0.163 mg/kg	0.0000163 %	✓	
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				0.31 mg/kg		0.266 mg/kg	0.0000266 %	✓	
		205-912-4	206-44-0							
28	pyrene				0.41 mg/kg		0.351 mg/kg	0.0000351 %	✓	
		204-927-3	129-00-0							
29	benzo[a]anthracene				0.19 mg/kg		0.163 mg/kg	0.0000163 %	✓	
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				0.24 mg/kg		0.206 mg/kg	0.0000206 %	✓	
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				0.24 mg/kg		0.206 mg/kg	0.0000206 %	✓	
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				0.16 mg/kg		0.137 mg/kg	0.0000137 %	✓	
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.0859 %		

Key

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

Classification of sample: WS209

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

Sample details

Sample name:	LoW Code:
WS209	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
0.30 m	
Moisture content:	
20%	
(dry weight correction)	

Hazard properties

HP 7: Carcinogenic "waste which induces cancer or increases its incidence"

Hazard Statements hit:

Carc. 1A; H350 "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.423%)

HP 10: Toxic for reproduction "waste which has adverse effects on sexual function and fertility in adult males and females, as well as developmental toxicity in the offspring"

Hazard Statements hit:

Repr. 1A; H360Df "May damage the unborn child. Suspected of damaging fertility."

Because of determinand:

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.423%)

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:

dicopper oxide; copper (I) oxide: (compound conc.: 0.157%)

lead compounds with the exception of those specified elsewhere in this Annex (worst case): (Note 1 conc.: 0.423%)

Determinands

Moisture content: 20% Dry Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		CLP index number	EC Number	CAS Number									
1		arsenic { arsenic trioxide }				59	mg/kg	1.32	64.916	mg/kg	0.00649 %	✓	
		033-003-00-0	215-481-4	1327-53-3									
2		beryllium { beryllium oxide }				0.8	mg/kg	2.775	1.85	mg/kg	0.000185 %	✓	
		004-003-00-8	215-133-1	1304-56-9									
3		boron { diboron trioxide; boric oxide }				1.3	mg/kg	3.22	3.488	mg/kg	0.000349 %	✓	
		005-008-00-8	215-125-8	1303-86-2									
4		cadmium { cadmium oxide }				36.6	mg/kg	1.142	34.841	mg/kg	0.00348 %	✓	
		048-002-00-0	215-146-2	1306-19-0									
5		chromium in chromium(III) compounds {  chromium(III) oxide (worst case) }				63	mg/kg	1.462	76.732	mg/kg	0.00767 %	✓	
			215-160-9	1308-38-9									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2 mg/kg	2.27	<4.54 mg/kg	<0.000454 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				1670 mg/kg	1.126	1566.861 mg/kg	0.157 %	✓		
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	5080 mg/kg		4233.333 mg/kg	0.423 %	✓		
	082-001-00-6										
9	mercury { mercury dichloride }				1.7 mg/kg	1.353	1.917 mg/kg	0.000192 %	✓		
	080-010-00-X	231-299-8	7487-94-7								
10	nickel { nickel chromate }				118 mg/kg	2.976	292.666 mg/kg	0.0293 %	✓		
	028-035-00-7	238-766-5	14721-18-7								
11	selenium { nickel selenate }				<3 mg/kg	2.554	<7.662 mg/kg	<0.000766 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								
12	zinc { zinc sulphate }				41 mg/kg	2.469	84.368 mg/kg	0.00844 %	✓		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
13	TPH (C6 to C40) petroleum group		TPH		436 mg/kg		363.333 mg/kg	0.0363 %	✓		
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
15	benzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<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]								
19	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 }				<2 mg/kg	1.884	<3.768 mg/kg	<0.000377 %			<LOD
	006-007-00-5										
20	pH		PH		7.1 pH		7.1 pH	7.1 pH			
21	naphthalene				0.19 mg/kg		0.158 mg/kg	0.0000158 %	✓		
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				0.19 mg/kg		0.158 mg/kg	0.0000158 %	✓		
		201-469-6	83-32-9								
24	fluorene				0.14 mg/kg		0.117 mg/kg	0.0000117 %	✓		
		201-695-5	86-73-7								
25	phenanthrene				0.7 mg/kg		0.583 mg/kg	0.0000583 %	✓		
		201-581-5	85-01-8								
26	anthracene				0.24 mg/kg		0.2 mg/kg	0.00002 %	✓		
		204-371-1	120-12-7								
27	fluoranthene				1.58 mg/kg		1.317 mg/kg	0.000132 %	✓		
		205-912-4	206-44-0								
28	pyrene				1.88 mg/kg		1.567 mg/kg	0.000157 %	✓		
		204-927-3	129-00-0								
29	benzo[a]anthracene				0.99 mg/kg		0.825 mg/kg	0.0000825 %	✓		
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				1.08 mg/kg		0.9 mg/kg	0.00009 %	✓		
	601-048-00-0	205-923-4	218-01-9								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
31	benzo[b]fluoranthene				2.49 mg/kg		2.075 mg/kg	0.000208 %	✓	
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				0.81 mg/kg		0.675 mg/kg	0.0000675 %	✓	
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				2.25 mg/kg		1.875 mg/kg	0.000188 %	✓	
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				1.26 mg/kg		1.05 mg/kg	0.000105 %	✓	
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				0.25 mg/kg		0.208 mg/kg	0.0000208 %	✓	
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				1.15 mg/kg		0.958 mg/kg	0.0000958 %	✓	
		205-883-8	191-24-2							
37	phenol				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
Total:								0.676 %		

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 Determinand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No free phase product.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0363%)

Classification of sample: WS210

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

Sample details

Sample name:	LoW Code:
WS210	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
24.4%	
(dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 24.4% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				30	mg/kg	1.32	31.841	mg/kg	0.00318 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	beryllium { beryllium oxide }				1.3	mg/kg	2.775	2.9	mg/kg	0.00029 %	✓	
	004-003-00-8	215-133-1	1304-56-9									
3	boron { diboron trioxide; boric oxide }				1.9	mg/kg	3.22	4.918	mg/kg	0.000492 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
4	cadmium { cadmium oxide }				7.4	mg/kg	1.142	6.795	mg/kg	0.00068 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				25	mg/kg	1.462	29.372	mg/kg	0.00294 %	✓	
		215-160-9	1308-38-9									
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<2	mg/kg	2.27	<4.54	mg/kg	<0.000454 %		<LOD
	024-017-00-8											
7	copper { dicopper oxide; copper (I) oxide }				233	mg/kg	1.126	210.878	mg/kg	0.0211 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
8	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	423	mg/kg		340.032	mg/kg	0.034 %	✓	
	082-001-00-6											
9	mercury { mercury dichloride }				1	mg/kg	1.353	1.088	mg/kg	0.000109 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
10	nickel { nickel chromate }				41	mg/kg	2.976	98.092	mg/kg	0.00981 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
11	selenium { nickel selenate }				<3	mg/kg	2.554	<7.662	mg/kg	<0.000766 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
12	zinc { zinc sulphate }				36	mg/kg	2.469	71.459	mg/kg	0.00715 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
13	TPH (C6 to C40) petroleum group		TPH		59	mg/kg		47.428	mg/kg	0.00474 %	✓	
14	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
15	benzene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
	601-020-00-8	200-753-7	71-43-2									



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
16	toluene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
17	ethylbenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
18	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<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]								
19	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 }				<2 mg/kg	1.884	<3.768 mg/kg	<0.000377 %			<LOD
	006-007-00-5										
20	pH				6.9 pH		6.9 pH	6.9 pH			
			PH								
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				0.13 mg/kg		0.105 mg/kg	0.0000105 %		✓	
		201-469-6	83-32-9								
24	fluorene				0.17 mg/kg		0.137 mg/kg	0.0000137 %		✓	
		201-695-5	86-73-7								
25	phenanthrene				0.53 mg/kg		0.426 mg/kg	0.0000426 %		✓	
		201-581-5	85-01-8								
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		204-371-1	120-12-7								
27	fluoranthene				0.79 mg/kg		0.635 mg/kg	0.0000635 %		✓	
		205-912-4	206-44-0								
28	pyrene				0.79 mg/kg		0.635 mg/kg	0.0000635 %		✓	
		204-927-3	129-00-0								
29	benzo[a]anthracene				0.3 mg/kg		0.241 mg/kg	0.0000241 %		✓	
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				0.37 mg/kg		0.297 mg/kg	0.0000297 %		✓	
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				0.69 mg/kg		0.555 mg/kg	0.0000555 %		✓	
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				0.19 mg/kg		0.153 mg/kg	0.0000153 %		✓	
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				0.58 mg/kg		0.466 mg/kg	0.0000466 %		✓	
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				0.4 mg/kg		0.322 mg/kg	0.0000322 %		✓	
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				0.4 mg/kg		0.322 mg/kg	0.0000322 %		✓	
		205-883-8	191-24-2								
37	phenol				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
Total:									0.0867 %		

Key

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



Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because No free phase product.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00474%)

Appendix A: Classifier defined and non CLP 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

■ lead compounds with the exception of those specified elsewhere in this Annex (worst case)

CLP index number: 082-001-00-6

Description/Comments: Worst Case: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following CLP protocols, considers lead compounds from smelting industries, flue dust and similar to be Carcinogenic category 1A

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

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

Reason for additional Hazards Statement(s):

03 Jun 2015 - Carc. 1A H350 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html (worst case lead compounds). Review date 29/09/2015

■ 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

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

CLP index number: 601-023-00-4

Description/Comments:

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

Additional Hazard Statement(s): Carc. 2 H351

Reason for additional Hazards Statement(s):

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

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

CLP index number: 006-007-00-5

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

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

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

Reason for additional Hazards Statement(s):

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

■ pH (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

■ 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

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 (edit as required)

beryllium {beryllium oxide}

Reasonable case CLP species based on hazard statements/molecular weight. Industrial sources include: most common (non alloy) form, used in ceramics (edit as required)

boron {diboron trioxide; boric oxide}

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

cadmium {cadmium oxide}

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

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

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

chromium in chromium(VI) compounds {chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex}

Worst case species based on hazard statements/molecular weight (edit as required)

copper {dicopper oxide; copper (I) oxide}

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

lead {lead compounds with the exception of those specified elsewhere in this Annex (worst case)}

No chromium.

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

nickel {nickel chromate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

selenium {nickel selenate}

Worst case CLP species based on hazard statements/molecular weight (edit as required)

zinc {zinc sulphate}

No chromium.

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

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

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2021.155.4797.9144 (05 Jun 2021)

HazWasteOnline Database: 2021.155.4797.9144 (05 Jun 2021)

This classification utilises the following guidance and legislation:

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

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

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

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

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

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

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

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

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

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

Revised List of 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 2019 - UK: 2019 No. 720 of 27th March 2019

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit)

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POPs Regulation 2019 - Regulation (EU) 2019/1021 of 20 June 2019