

Waste classification report – Clifford Devlin

4th August 2023

Clifford Devlin
Hedley Avenue
Grays
Essex
RM20 4EL

FAO: Liam Hennessy
Ref: 210399-CG
Site: The Elms, 371a High Street, Harlington UB3 5DQ

Executive summary

SoilEx Environmental Limited (SoilEx) have conducted sampling and analysis on soils for the purposes of conducting a WM3 waste classification assessment and assigning the appropriate European Waste Catalogue (EWC) code prior to removal / disposal.

4 number of samples were analysed for a suite of contaminants deemed appropriate by SoilEx based on nature of waste, possible contaminant sources, site history and professional judgement. Analysis was conducted by a third party UKAS accredited laboratory.

In addition to the waste classification analysis, Waste Acceptance Criteria (WAC) leachate analysis was instructed to determine the wastes suitability for landfill disposal.

The locations to be sampled were agreed by SoilEx and Clifford Devlin prior to attendance, in accordance with their scope of works and due to limited access to areas within the site. A building known to contain asbestos in the vicinity of sample S2 had previously been set on fire, and visual identification of ash, burnt debris and asbestos fragments lay around the surrounding areas.

Stockpiles of waste and burnt debris were also identified across the site, and a sample from area S4 was obtained.

Waste description & EWC code(s)

The waste sampled was soils and stones from a construction project with **the possible EWC codes being either;**

17 05 03* - Soils and stones containing hazardous substances

Or

17 05 04 - Soils and stones (Non-hazardous)

Results

The laboratory analysis results for waste classification and WAC can be found in Appendix A and have been summarised below in *Table 1*. These results have been inputted and cross referenced with HazWasteOnline (HWOL) by a qualified user and the report can be found in Appendix B.

The samples obtained were submitted for a waste classification suite which includes pH, Metals, TPH (Total Petroleum Hydrocarbons), PAH (Polycyclic Aromatic Hydrocarbons), Asbestos identification and quantification (if identified), BTEX, Phenols and WAC (Waste Acceptance Criteria).

Of these samples, S1 and S3 failed the inert criteria and would be classified as non-hazardous. S4 contained a large volume of waste inclusions such as metal, nails, plastics, wood ash and general burnt debris and has been classified as hazardous. S2 was taken adjacent to the burnt building known to contain asbestos, where frequent fragments of asbestos were identified across the surface. The sample has been classified as hazardous due to the presence of visible asbestos, however contained no free fibres.

A map of the sample locations can be found in Appendix C and photos of the site and sample locations in Appendix D.

Sample Reference	Depth or stockpile	Classification & EWC code	Contaminant(s) noted	WAC leachate results
S1	0-0.1m	Non-hazardous 17 05 04	Nil	SNRHW failing WAC. See below.
S2	0-0.1m	Hazardous 17 05 03*	Chrysotile asbestos fragments. Nil free fibres.	Inert passing WAC. See below.
S3	0-0.1m	Non-hazardous 17 05 04	Nil	Hazardous failing WAC. See below.
S4	0-0.1m	Hazardous 17 05 03*	Zinc 1200mg/kg	SNRHW failing WAC. See below.
S1 WAC	0-0.1m		TOC TPH	5.7% 950mg/kg
S2 WAC	0-0.1m		Nil	Inert passing WAC.
S3 WAC	0-0.1m		TOC	8.2%
S4 WAC	0-0.1m		TOC	5.9%

Table 1

Assessment conducted by Carlie Goodger

Conditions and limitations

SoilEx Environmental Limited has prepared this report for the sole use of the client, showing reasonable skill and care, for the intended purposes as stated in the agreement under which this work was completed. The report may not be relied upon by any other party without the express agreement of the client and SoilEx. No other warranty, expressed or implied, is made as to the professional advice included in this report.

Where any data supplied by the client or from other sources have been used, it has been assumed that the information is correct. No responsibility can be accepted by SoilEx for inaccuracies in the data supplied by any other party. The conclusions and recommendations in this report assume that all relevant information has been supplied by those bodies from whom it was requested. This work has been undertaken in accordance with the quality management system of SoilEx Environment Ltd. No part of this report may be copied or duplicated without the express permission of SoilEx and the party for whom it was prepared. Where field investigations have been carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.

Appendix A – Laboratory analysis results



Amended Report

Report No.:	23-24922-2		
Initial Date of Issue:	01-Aug-2023	Date of Re-Issue:	02-Aug-2023
Re-Issue Details:	This report has been revised and directly supersedes 23-24922-1 in its entirety		
Client	SoilEx Environmental Ltd		
Client Address:	Rivers Lodge West Common Harpenden Herts AL5 2JD		
Contact(s):	Carlie Goodger Testing		
Project	c/o Clifford Devlin, The Elms, 371a High Street, Harlington		
Quotation No.:	Q23-30769	Date Received:	25-Jul-2023
Order No.:		Date Instructed:	25-Jul-2023
No. of Samples:	4		
Turnaround (Wkdays):	5	Results Due:	31-Jul-2023
Date Approved:	02-Aug-2023		
Approved By:			
Details:	Stuart Henderson, Technical Manager		

Results - Soil

Project: c/o Clifford Devlin, The Elms, 371a High Street, Harlington

Client: SoilEx Environmental Ltd	Chemtest Job No.:				23-24922	23-24922	23-24922	23-24922
Quotation No.: Q23-30769	Chemtest Sample ID.:				1678565	1678566	1678567	1678568
Order No.:	Client Sample Ref.:				S1	S2	S3	S4
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0	0	0	0
	Bottom Depth (m):				0.1	0.1	0.1	0.1
	Date Sampled:				20-Jul-2023	20-Jul-2023	20-Jul-2023	20-Jul-2023
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD				
ACM Type	U	2192		N/A	-	-	-	-
Asbestos Identification	U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.020	16	0.51	17	1.5
Moisture at 105C	N	2030	%	N/A	16	0.51	17	1.5
pH	M	2010		4.0	7.2	8.9	7.4	9.8
Boron (Hot Water Soluble)	M	2120	mg/kg	0.40	4.3	0.95	4.2	4.1
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	0.061	0.080	0.073	0.24
Cyanide (Total)	M	2300	mg/kg	0.50	0.60	< 0.50	0.90	< 0.50
Arsenic	M	2455	mg/kg	0.5	5.1	6.3	7.0	17
Beryllium	U	2455	mg/kg	0.5	< 0.5	< 0.5	0.5	0.8
Cadmium	M	2455	mg/kg	0.10	0.29	0.14	0.42	1.2
Chromium	M	2455	mg/kg	0.5	13	15	19	180
Manganese	M	2455	mg/kg	1.0	220	200	370	1100
Molybdenum	M	2455	mg/kg	0.5	0.6	0.7	1.1	2.7
Antimony	N	2455	mg/kg	2.0	< 2.0	< 2.0	2.3	52
Copper	M	2455	mg/kg	0.50	31	26	38	360
Mercury	M	2455	mg/kg	0.05	0.17	0.05	0.35	< 0.05
Nickel	M	2455	mg/kg	0.50	9.5	11	15	26
Lead	M	2455	mg/kg	0.50	100	64	340	150
Selenium	M	2455	mg/kg	0.25	0.33	< 0.25	0.58	0.49
Zinc	M	2455	mg/kg	0.50	130	100	230	1200
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	0.51
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C8-C10	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aliphatic TPH >C10-C12	N	2680	mg/kg	1.0	3.1	2.4	2.9	3.1
Aliphatic TPH >C12-C16	N	2680	mg/kg	1.0	6.9	9.9	6.6	5.6
Aliphatic TPH >C16-C21	N	2680	mg/kg	1.0	7.8	55	< 1.0	< 1.0
Aliphatic TPH >C21-C35	N	2680	mg/kg	1.0	49	190	27	2.9
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0	34	< 1.0	< 1.0
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	67	290	36	12
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C8-C10	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	2.7
Aromatic TPH >C10-C12	N	2680	mg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Aromatic TPH >C12-C16	N	2680	mg/kg	1.0	3.9	5.5	4.9	2.2

Results - Soil

Project: c/o Clifford Devlin, The Elms, 371a High Street, Harlington

Client: SoilEx Environmental Ltd	Chemtest Job No.:				23-24922	23-24922	23-24922	23-24922
Quotation No.: Q23-30769	Chemtest Sample ID.:				1678565	1678566	1678567	1678568
Order No.:	Client Sample Ref.:				S1	S2	S3	S4
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0	0	0	0
	Bottom Depth (m):				0.1	0.1	0.1	0.1
	Date Sampled:				20-Jul-2023	20-Jul-2023	20-Jul-2023	20-Jul-2023
	Asbestos Lab:				DURHAM	DURHAM	DURHAM	DURHAM
Determinand	Accred.	SOP	Units	LOD				
Aromatic TPH >C16-C21	N	2680	mg/kg	1.0	60	29	22	< 1.0
Aromatic TPH >C21-C35	N	2680	mg/kg	1.0	180	39	150	18
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	26	18	52	19
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	270	90	230	43
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	330	380	270	54
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	0.90	< 0.10	2.0	< 0.10
Anthracene	M	2700	mg/kg	0.10	0.44	< 0.10	0.56	< 0.10
Fluoranthene	M	2700	mg/kg	0.10	3.0	0.62	4.4	< 0.10
Pyrene	M	2700	mg/kg	0.10	3.0	0.46	4.3	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.10	2.0	< 0.10	2.7	< 0.10
Chrysene	M	2700	mg/kg	0.10	2.2	< 0.10	3.3	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	2.5	< 0.10	3.7	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	1.1	< 0.10	1.7	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	2.3	< 0.10	2.8	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	2.3	< 0.10	2.1	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	0.41	< 0.10	0.45	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	3.8	< 0.10	2.7	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	24	< 2.0	31	< 2.0
Benzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	3.1
Toluene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Phenols	M	2920	mg/kg	0.10	0.31	< 0.10	0.20	< 0.10

Results - Single Stage WAC

Project: c/o Clifford Devlin, The Elms, 371a High Street, Harlington

Chemtest Job No: 23-24922					Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1678565					Limits		
Sample Ref: S1					Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:							
Sample Location:							
Top Depth(m): 0							
Bottom Depth(m): 0.1							
Sampling Date: 20-Jul-2023							
Determinand	SOP	Accred.	Units				
Total Organic Carbon	2625	M	%	5.7	3	5	6
Loss On Ignition	2610	M	%	9.2	--	--	10
Total BTEX	2760	M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg	950	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg	24	100	--	--
pH	2010	M		7.2	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg	0.0050	--	To evaluate	To evaluate
Eluate Analysis			10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455	U	0.0050	0.050	0.5	2	25
Barium	1455	U	0.013	0.13	20	100	300
Cadmium	1455	U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455	U	0.0012	0.012	0.5	10	70
Copper	1455	U	0.023	0.23	2	50	100
Mercury	1455	U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455	U	0.0030	0.030	0.5	10	30
Nickel	1455	U	0.0040	0.040	0.4	10	40
Lead	1455	U	0.0034	0.034	0.5	10	50
Antimony	1455	U	0.0022	0.022	0.06	0.7	5
Selenium	1455	U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455	U	0.028	0.28	4	50	200
Chloride	1220	U	3.3	33	800	15000	25000
Fluoride	1220	U	0.15	1.5	10	150	500
Sulphate	1220	U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020	N	120	1200	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610	U	17	170	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	16

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: c/o Clifford Devlin, The Elms, 371a High Street, Harlington

Chemtest Job No: 23-24922					Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1678566					Limits		
Sample Ref: S2					Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:							
Sample Location:							
Top Depth(m): 0							
Bottom Depth(m): 0.1							
Sampling Date: 20-Jul-2023							
Determinand	SOP	Accred.	Units				
Total Organic Carbon	2625	M	%	1.1	3	5	6
Loss On Ignition	2610	M	%	10	--	--	10
Total BTEX	2760	M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg	< 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg	< 2.0	100	--	--
pH	2010	M		8.9	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg	0.0090	--	To evaluate	To evaluate
Eluate Analysis			10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455	U	0.0020	0.020	0.5	2	25
Barium	1455	U	0.007	0.069	20	100	300
Cadmium	1455	U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455	U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455	U	0.0029	0.029	2	50	100
Mercury	1455	U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455	U	0.0005	0.0051	0.5	10	30
Nickel	1455	U	0.0014	0.014	0.4	10	40
Lead	1455	U	0.0008	0.0084	0.5	10	50
Antimony	1455	U	0.0010	0.010	0.06	0.7	5
Selenium	1455	U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455	U	0.005	0.050	4	50	200
Chloride	1220	U	4.7	47	800	15000	25000
Fluoride	1220	U	0.53	5.3	10	150	500
Sulphate	1220	U	6.5	65	1000	20000	50000
Total Dissolved Solids	1020	N	85	850	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610	U	3.7	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	0.51

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: c/o Clifford Devlin, The Elms, 371a High Street, Harlington

Project: 06 Chimera Devlin, The Links, 57-14 High Street, Harington.					Landfill Waste Acceptance Criteria		
Chemtest Job No: 23-24922					Limits		
Chemtest Sample ID: 1678567					Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample Ref: S3							
Sample ID:							
Sample Location:							
Top Depth(m): 0							
Bottom Depth(m): 0.1							
Sampling Date: 20-Jul-2023							
Determinand	SOP	Accred.	Units				
Total Organic Carbon	2625	M	%	8.2	3	5	6
Loss On Ignition	2610	M	%	1.8	--	--	10
Total BTEX	2760	M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg	80	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg	31	100	--	--
pH	2010	M		7.4	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg	0.012	--	To evaluate	To evaluate
Eluate Analysis			10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455	U	0.0016	0.016	0.5	2	25
Barium	1455	U	< 0.005	< 0.050	20	100	300
Cadmium	1455	U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455	U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455	U	0.0008	0.0084	2	50	100
Mercury	1455	U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455	U	0.0002	0.0024	0.5	10	30
Nickel	1455	U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455	U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455	U	0.0006	0.0055	0.06	0.7	5
Selenium	1455	U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455	U	0.006	0.063	4	50	200
Chloride	1220	U	< 1.0	< 10	800	15000	25000
Fluoride	1220	U	0.084	< 1.0	10	150	500
Sulphate	1220	U	8.3	83	1000	20000	50000
Total Dissolved Solids	1020	N	38	380	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610	U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	17

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: c/o Clifford Devlin, The Elms, 371a High Street, Harlington

Chemtest Job No: 23-24922					Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1678568					Limits		
Sample Ref: S4					Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:							
Sample Location:							
Top Depth(m): 0							
Bottom Depth(m): 0.1							
Sampling Date: 20-Jul-2023							
Determinand	SOP	Accred.	Units				
Total Organic Carbon	2625	M	%	5.9	3	5	6
Loss On Ignition	2610	M	%	12	--	--	10
Total BTEX	2760	M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	M	mg/kg	92	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg	< 2.0	100	--	--
pH	2010	M		9.8	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg	0.0050	--	To evaluate	To evaluate
Eluate Analysis			10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455	U	0.0002	0.0024	0.5	2	25
Barium	1455	U	< 0.005	< 0.050	20	100	300
Cadmium	1455	U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455	U	< 0.0005	< 0.0050	0.5	10	70
Copper	1455	U	< 0.0005	< 0.0050	2	50	100
Mercury	1455	U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455	U	0.0008	0.0080	0.5	10	30
Nickel	1455	U	< 0.0005	< 0.0050	0.4	10	40
Lead	1455	U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455	U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455	U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455	U	0.003	0.026	4	50	200
Chloride	1220	U	< 1.0	< 10	800	15000	25000
Fluoride	1220	U	0.54	5.4	10	150	500
Sulphate	1220	U	1.8	18	1000	20000	50000
Total Dissolved Solids	1020	N	75	750	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610	U	3.3	< 50	500	800	1000

Solid Information

Dry mass of test portion/kg	0.090
Moisture (%)	1.5

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Test Methods

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2300	Cyanides & Thiocyanate in Soils	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2680	TPH A/A Split	Aliphatics: >C5–C6, >C6–C8,>C8–C10, >C10–C12, >C12–C16, >C16–C21, >C21–C35, >C35– C44Aromatics: >C5–C7, >C7–C8, >C8– C10, >C10–C12, >C12–C16, >C16– C21, >C21– C35, >C35– C44	Dichloromethane extraction / GCxGC FID detection
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)

Test Methods

SOP	Title	Parameters included	Method summary
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



2183

Final Report

Report No.: 23-26032-1

Initial Date of Issue: 02-Aug-2023

Re-Issue Details:

Client SoilEx Environmental Ltd

Client Address: Rivers Lodge
West Common
Harpenden
Herts
AL5 2JD

Contact(s): Carlie Goodger
Testing

Project c/o Clifford Devlin, The Elms, 371a
High Street, Harlington

Quotation No.: Q23-30769

Date Received: 02-Aug-2023

Order No.:

Date Instructed: 02-Aug-2023

No. of Samples: 1

Turnaround (Wkdays): 2

Results Due: 03-Aug-2023

Date Approved: 02-Aug-2023

Approved By:



Details: Stuart Henderson, Technical
Manager

Results - Soil

Project: c/o Clifford Devlin, The Elms, 371a High Street, Harlington

Client: SoilEx Environmental Ltd	Chemtest Job No.:		23-26032		
Quotation No.: Q23-30769	Chemtest Sample ID.:		1682911		
Order No.:	Client Sample Ref.:		S2		
	Sample Type:		SOIL		
	Top Depth (m):		0		
	Bottom Depth (m):		0.1		
	Date Sampled:		20-Jul-2023		
	Asbestos Lab:		DURHAM		
Determinand	Accred.	SOP	Units	LOD	
ACM Type	U	2192		N/A	Cement
Asbestos Identification	U	2192		N/A	Chrysotile
Asbestos by Gravimetry	U	2192	%	0.001	0.36
Total Asbestos	U	2192	%	0.001	0.36

Test Methods

SOP	Title	Parameters included	Method summary
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com

Appendix B – HazWaste Online report

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)



4IF89-AFZFN-4FKSL

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

Job name

Clifford Devlin, The Elms, 371a High Street, Harlington UB3 5DQ

Description/Comments

This report assesses the waste classification of soil samples taken by Clifford Devlin at The Elms, 371a High Street, Harlington.

The samples have been analysed at a UKAS accredited laboratory for a suite of contaminants predetermined by SoilEx Environmental Ltd.

A total of 4 samples were obtained from across the site. Of these, 4 samples were analysed for a chemical suite to include asbestos identification and quantification (if positively identified), metals, total petroleum hydrocarbons (TPH) and polycyclic petroleum hydrocarbons (PAH), with an additional 4 samples analysed for WAC.

2 of the samples have been classified as 17 05 03* hazardous soil and stone due to visible asbestos fragments in S2 and metals in S4, with the remainder as 17 05 04 non-hazardous soil and stone. Of the 4 WACs, 3 fail the inert criteria and would be unsuitable to be disposed of at an inert landfill. Despite S2 WAC passing inert criteria, due to the presence of asbestos, this is not suitable for an inert landfill without prior treatment.

All contaminants have been assessed on a most likely case basis and amended based on available information and analytical data.

Project

Assessment of Eurofins report ref: 23-24922

Site

The Elms, 371a High Street, Harlington UB3 5DQ

Classified by

Name: **Carlie Goodger**
Date: **04 Aug 2023 11:42 GMT**
Telephone: **0330 128 9906**
Company: **Soilex Environmental Ltd**
Rivers Lodge
West Common
Harpenden
AL5 2JD

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

HazWasteOnline™ Certification:

CERTIFIED

Course

Hazardous Waste Classification

Date

06 Apr 2023

Next 3 year Refresher due by Apr 2026

Purpose of classification

5 - Classification Dossier

Address of the waste

The Elms, 371a High Street, Harlington

Post Code UB3 5DQ

SIC for the process giving rise to the waste

41100 Development of building projects

Description of industry/producer giving rise to the waste

Redevelopment of site

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

Site scrape to 100mm

Description of the waste

Soils and stone

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	WAC Results			Page
					Inert	SNRHW	Hazardous	
1	-S1-20/07/2023-0	0-0.1	Non Hazardous		Fail	Fail	N/A	4
2	-S2-20/07/2023-0	0-0.1	Hazardous	HP 7	N/A	Pass	Fail	8
3	-S3-20/07/2023-0	0-0.1	Non Hazardous		Fail	Fail	N/A	12
4	-S4-20/07/2023-0	0-0.1	Hazardous	HP 2, HP 14	N/A	Fail	Fail	16

Related documents

#	Name	Description
1	HWOL_23-24922-20230802 164431.hwol	Eurofins Chemtest .hwol file used to populate the Job
2	Asbestos	waste stream template used to create this Job

WAC results

WAC Settings: samples in this Job do not constitute a single population.

WAC limits used to evaluate the samples in this Job: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

Report

Created by: Carlie Goodger

Created date: 04 Aug 2023 11:42 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	20
Appendix B: Rationale for selection of metal species	21
Appendix C: Version	22

Classification of sample: -S1-20/07/2023-0

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

Sample details

Sample name:	LoW Code:
-S1-20/07/2023-0	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0-0.1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
16%	
(wet weight correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %			<LOD
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				5.1 mg/kg	1.32	5.656 mg/kg	0.000566 %		✓	
	033-003-00-0	215-481-4	1327-53-3								
3	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								
4	boron { diboron trioxide; boric oxide }				4.3 mg/kg	3.22	11.63 mg/kg	0.00116 %		✓	
	005-008-00-8	215-125-8	1303-86-2								
5	cadmium { cadmium oxide }				0.29 mg/kg	1.142	0.278 mg/kg	0.0000278 %		✓	
	048-002-00-0	215-146-2	1306-19-0								
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				13 mg/kg	1.462	15.96 mg/kg	0.0016 %		✓	
		215-160-9	1308-38-9								
7	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
8	copper { dicopper oxide; copper (I) oxide }				31 mg/kg	1.126	29.318 mg/kg	0.00293 %		✓	
	029-002-00-X	215-270-7	1317-39-1								
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	100 mg/kg		84 mg/kg	0.0084 %		✓	
	082-001-00-6										
10	manganese { manganese sulphate }				220 mg/kg	2.749	507.935 mg/kg	0.0508 %		✓	
	025-003-00-4	232-089-9	7785-87-7								
11	mercury { mercury dichloride }				0.17 mg/kg	1.353	0.193 mg/kg	0.0000193 %		✓	
	080-010-00-X	231-299-8	7487-94-7								
12	molybdenum { molybdenum(VI) oxide }				0.6 mg/kg	1.5	0.756 mg/kg	0.0000756 %		✓	
	042-001-00-9	215-204-7	1313-27-5								
13	nickel { dinickel hexacyanoferrate }				9.5 mg/kg	2.806	22.388 mg/kg	0.00224 %		✓	
	028-037-00-8	238-946-3	14874-78-3								
14	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.33 mg/kg	1.405	0.389 mg/kg	0.0000389 %		✓	
	034-002-00-8										

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15	 zinc {  zinc sulphate }												
		030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]		130	mg/kg	2.469	269.647	mg/kg	0.027 %	✓	
16	 TPH (C6 to C40) petroleum group					330	mg/kg		277.2	mg/kg	0.0277 %	✓	
				TPH									
17	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane					<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
18	benzene					<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
19	toluene					<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
20	 ethylbenzene					<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
21	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]									
22	 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 }					0.6	mg/kg	1.884	0.95	mg/kg	0.000095 %	✓	
		006-007-00-5											
23	 pH					7.2	pH		7.2	pH	7.2 pH		
				PH									
24	naphthalene					<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
25	 acenaphthylene					<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
26	 acenaphthene					<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
27	 fluorene					<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
28	 phenanthrene					0.9	mg/kg		0.756	mg/kg	0.0000756 %	✓	
			201-581-5	85-01-8									
29	 anthracene					0.44	mg/kg		0.37	mg/kg	0.000037 %	✓	
			204-371-1	120-12-7									
30	 fluoranthene					3	mg/kg		2.52	mg/kg	0.000252 %	✓	
			205-912-4	206-44-0									
31	 pyrene					3	mg/kg		2.52	mg/kg	0.000252 %	✓	
			204-927-3	129-00-0									
32	benzo[a]anthracene					2	mg/kg		1.68	mg/kg	0.000168 %	✓	
		601-033-00-9	200-280-6	56-55-3									
33	chrysene					2.2	mg/kg		1.848	mg/kg	0.000185 %	✓	
		601-048-00-0	205-923-4	218-01-9									
34	benzo[b]fluoranthene					2.5	mg/kg		2.1	mg/kg	0.00021 %	✓	
		601-034-00-4	205-911-9	205-99-2									
35	benzo[k]fluoranthene					1.1	mg/kg		0.924	mg/kg	0.0000924 %	✓	
		601-036-00-5	205-916-6	207-08-9									
36	benzo[a]pyrene; benzo[def]chrysene					2.3	mg/kg		1.932	mg/kg	0.000193 %	✓	
		601-032-00-3	200-028-5	50-32-8									
37	 indeno[123-cd]pyrene					2.3	mg/kg		1.932	mg/kg	0.000193 %	✓	
			205-893-2	193-39-5									
38	dibenz[a,h]anthracene					0.41	mg/kg		0.344	mg/kg	0.0000344 %	✓	
		601-041-00-2	200-181-8	53-70-3									
39	 benzo[ghi]perylene					3.8	mg/kg		3.192	mg/kg	0.000319 %	✓	
			205-883-8	191-24-2									
40	 monohydric phenols					0.31	mg/kg		0.26	mg/kg	0.000026 %	✓	
				P1186									
Total:											0.125 %		

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
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 HP3 Flammability discounted due to total concentration of Total Petroleum Hydrocarbons, subject to nil free phase liquids.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0277%)

WAC results for sample: -S1-20/07/2023-0

WAC Settings: samples in this Job do not constitute a single population.

WAC limits used to evaluate this sample: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample FAILS the Inert (Inert waste landfill) criteria.

The sample FAILS the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	5.7	3	5	6
2	LOI (loss on ignition)	%	9.2	-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.01	6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.1	1	-	-
5	Mineral oil (C10 to C40)	mg/kg	950	500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	24	100	-	-
7	pH	pH	7.2	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg	0.005	-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg	0.05	0.5	2	25
10	barium	mg/kg	0.13	20	100	300
11	cadmium	mg/kg	<0.0011	0.04	1	5
12	chromium	mg/kg	0.012	0.5	10	70
13	copper	mg/kg	0.23	2	50	100
14	mercury	mg/kg	<0.0005	0.01	0.2	2
15	molybdenum	mg/kg	0.03	0.5	10	30
16	nickel	mg/kg	0.04	0.4	10	40
17	lead	mg/kg	0.34	0.5	10	50
18	antimony	mg/kg	0.022	0.06	0.7	5
19	selenium	mg/kg	<0.005	0.1	0.5	7
20	zinc	mg/kg	0.25	4	50	200
21	chloride	mg/kg	33	800	15,000	25,000
22	fluoride	mg/kg	1.5	10	150	500
23	sulphate	mg/kg	<10	1,000	20,000	50,000
24	phenol index	mg/kg	<0.3	1	-	-
25	DOC (dissolved organic carbon)	mg/kg	170	500	800	1,000
26	TDS (total dissolved solids)	mg/kg	1200	4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Inert WAC criteria fail
	SNRHW WAC criteria fail

Classification of sample: -S2-20/07/2023-0

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

Sample details

Sample name:	LoW Code:
-S2-20/07/2023-0	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0-0.1 m	Entry:
Moisture content:	17 05 03 * (Soil and stones containing hazardous substances)
0.51%	
(wet 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:

asbestos: (conc.: 0.358%)

Determinands

Moisture content: 0.51% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	asbestos 650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		3600 mg/kg		3581.64 mg/kg		0.358 %	✓	
2	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg		<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4								
3	arsenic { arsenic trioxide }				6.3 mg/kg	1.32	8.276 mg/kg		0.000828 %	✓	
	033-003-00-0	215-481-4	1327-53-3								
4	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								
5	boron { diboron trioxide; boric oxide }				0.95 mg/kg	3.22	3.043 mg/kg		0.000304 %	✓	
	005-008-00-8	215-125-8	1303-86-2								
6	cadmium { cadmium oxide }				0.14 mg/kg	1.142	0.159 mg/kg		0.0000159 %	✓	
	048-002-00-0	215-146-2	1306-19-0								
7	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				15 mg/kg	1.462	21.812 mg/kg		0.00218 %	✓	
		215-160-9	1308-38-9								
8	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962 mg/kg		<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
9	copper { dicopper oxide; copper (I) oxide }				26 mg/kg	1.126	29.124 mg/kg		0.00291 %	✓	
	029-002-00-X	215-270-7	1317-39-1								

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
10	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	64	mg/kg		63.674	mg/kg	0.00637 %	✓	
	082-001-00-6											
11	manganese { manganese sulphate }				200	mg/kg	2.749	546.909	mg/kg	0.0547 %	✓	
	025-003-00-4	232-089-9	7785-87-7									
12	mercury { mercury dichloride }				0.05	mg/kg	1.353	0.0673	mg/kg	0.00000673 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
13	molybdenum { molybdenum(VI) oxide }				0.7	mg/kg	1.5	1.045	mg/kg	0.000104 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
14	nickel { dinickel hexacyanoferrate }				11	mg/kg	2.806	30.704	mg/kg	0.00307 %	✓	
	028-037-00-8	238-946-3	14874-78-3									
15	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.25	mg/kg	1.405	<0.351	mg/kg	<0.0000351 %		<LOD
	034-002-00-8											
16	zinc { zinc sulphate }				100	mg/kg	2.469	245.67	mg/kg	0.0246 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
17	TPH (C6 to C40) petroleum group				380	mg/kg		378.062	mg/kg	0.0378 %	✓	
			TPH									
18	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
19	benzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
20	toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
21	ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
22	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]									
23	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 }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
	006-007-00-5											
24	pH				8.9	pH		8.9	pH	8.9 pH		
			PH									
25	naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
26	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8									
27	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9									
28	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7									
29	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8									
30	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7									
31	fluoranthene				0.62	mg/kg		0.617	mg/kg	0.0000617 %	✓	
		205-912-4	206-44-0									
32	pyrene				0.46	mg/kg		0.458	mg/kg	0.0000458 %	✓	
		204-927-3	129-00-0									
33	benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
34	chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	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
	EU CLP index number	EC Number	CAS Number							
35	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
36	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
37	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							
38	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
39	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							
40	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
41	monohydric phenols				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			P1186							
Total:								0.492 %		

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
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 HP3 Flammability discounted due to total concentration of Total Petroleum Hydrocarbons, subject to nil free phase liquids.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0378%)

WAC results for sample: -S2-20/07/2023-0

WAC Settings: samples in this Job do not constitute a single population.

WAC limits used to evaluate this sample: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample **PASSES** the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria.

The sample **FAILS** the Hazardous (Hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	1.1	3	5	6
2	LOI (loss on ignition)	%	10	-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.01	6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.1	1	-	-
5	Mineral oil (C10 to C40)	mg/kg	<10	500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<2	100	-	-
7	pH	pH	8.9	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg	0.009	-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg	0.02	0.5	2	25
10	barium	mg/kg	0.069	20	100	300
11	cadmium	mg/kg	<0.0011	0.04	1	5
12	chromium	mg/kg	<0.005	0.5	10	70
13	copper	mg/kg	0.029	2	50	100
14	mercury	mg/kg	<0.0005	0.01	0.2	2
15	molybdenum	mg/kg	0.0051	0.5	10	30
16	nickel	mg/kg	0.014	0.4	10	40
17	lead	mg/kg	0.084	0.5	10	50
18	antimony	mg/kg	0.01	0.06	0.7	5
19	selenium	mg/kg	<0.005	0.1	0.5	7
20	zinc	mg/kg	0.05	4	50	200
21	chloride	mg/kg	47	800	15,000	25,000
22	fluoride	mg/kg	5.3	10	150	500
23	sulphate	mg/kg	65	1,000	20,000	50,000
24	phenol index	mg/kg	<0.3	1	-	-
25	DOC (dissolved organic carbon)	mg/kg	<50	500	800	1,000
26	TDS (total dissolved solids)	mg/kg	850	4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Hazardous WAC criteria fail

Classification of sample: -S3-20/07/2023-0

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

Sample details

Sample name:	LoW Code:
-S3-20/07/2023-0	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0-0.1 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
17%	
(wet weight correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				2.3 mg/kg	1.197	2.285 mg/kg	0.000229 %	✓	
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				7 mg/kg	1.32	7.671 mg/kg	0.000767 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
3	beryllium { beryllium oxide }				0.5 mg/kg	2.775	1.152 mg/kg	0.000115 %	✓	
	004-003-00-8	215-133-1	1304-56-9							
4	boron { diboron trioxide; boric oxide }				4.2 mg/kg	3.22	11.224 mg/kg	0.00112 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
5	cadmium { cadmium oxide }				0.42 mg/kg	1.142	0.398 mg/kg	0.0000398 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
6	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				19 mg/kg	1.462	23.049 mg/kg	0.0023 %	✓	
		215-160-9	1308-38-9							
7	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
8	copper { dicopper oxide; copper (I) oxide }				38 mg/kg	1.126	35.511 mg/kg	0.00355 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	340 mg/kg		282.2 mg/kg	0.0282 %	✓	
	082-001-00-6									
10	manganese { manganese sulphate }				370 mg/kg	2.749	844.084 mg/kg	0.0844 %	✓	
	025-003-00-4	232-089-9	7785-87-7							
11	mercury { mercury dichloride }				0.35 mg/kg	1.353	0.393 mg/kg	0.0000393 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
12	molybdenum { molybdenum(VI) oxide }				1.1 mg/kg	1.5	1.37 mg/kg	0.000137 %	✓	
	042-001-00-9	215-204-7	1313-27-5							
13	nickel { dinickel hexacyanoferrate }				15 mg/kg	2.806	34.929 mg/kg	0.00349 %	✓	
	028-037-00-8	238-946-3	14874-78-3							
14	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.58 mg/kg	1.405	0.676 mg/kg	0.0000676 %	✓	
	034-002-00-8									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
15	 zinc { zinc sulphate }	030-006-00-9	231-793-3 [1]	7446-19-7 [1]		230	mg/kg	2.469	471.389	mg/kg	0.0471 %	✓	
			231-793-3 [2]	7733-02-0 [2]									
16	 TPH (C6 to C40) petroleum group		TPH			270	mg/kg		224.1	mg/kg	0.0224 %	✓	
17	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
18	benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
19	toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
20	 ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
21	xylene	601-022-00-9	202-422-2 [1]	95-47-6 [1]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
			203-396-5 [2]	106-42-3 [2]									
			203-576-3 [3]	108-38-3 [3]									
			215-535-7 [4]	1330-20-7 [4]									
22	 cyanides {  salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				0.9	mg/kg	1.884	1.407	mg/kg	0.000141 %	✓	
23	 pH		PH			7.4	pH		7.4	pH	7.4 pH		
24	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25	 acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26	 acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
27	 fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28	 phenanthrene		201-581-5	85-01-8		2	mg/kg		1.66	mg/kg	0.000166 %	✓	
29	 anthracene		204-371-1	120-12-7		0.56	mg/kg		0.465	mg/kg	0.0000465 %	✓	
30	 fluoranthene		205-912-4	206-44-0		4.4	mg/kg		3.652	mg/kg	0.000365 %	✓	
31	 pyrene		204-927-3	129-00-0		4.3	mg/kg		3.569	mg/kg	0.000357 %	✓	
32	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		2.7	mg/kg		2.241	mg/kg	0.000224 %	✓	
33	chrysene	601-048-00-0	205-923-4	218-01-9		3.3	mg/kg		2.739	mg/kg	0.000274 %	✓	
34	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		3.7	mg/kg		3.071	mg/kg	0.000307 %	✓	
35	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		1.7	mg/kg		1.411	mg/kg	0.000141 %	✓	
36	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		2.8	mg/kg		2.324	mg/kg	0.000232 %	✓	
37	 indeno[123-cd]pyrene		205-893-2	193-39-5		2.1	mg/kg		1.743	mg/kg	0.000174 %	✓	
38	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.45	mg/kg		0.374	mg/kg	0.0000374 %	✓	
39	 benzo[ghi]perylene		205-883-8	191-24-2		2.7	mg/kg		2.241	mg/kg	0.000224 %	✓	
40	 monohydric phenols		P1186			0.2	mg/kg		0.166	mg/kg	0.0000166 %	✓	
Total:												0.197 %	

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
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 HP3 Flammability discounted due to total concentration of Total Petroleum Hydrocarbons, subject to nil free phase liquids.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0224%)

WAC results for sample: -S3-20/07/2023-0

WAC Settings: samples in this Job do not constitute a single population.

WAC limits used to evaluate this sample: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample FAILS the Inert (Inert waste landfill) criteria.

The sample FAILS the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	8.2	3	5	6
2	LOI (loss on ignition)	%	1.8	-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.01	6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.1	1	-	-
5	Mineral oil (C10 to C40)	mg/kg	80	500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	31	100	-	-
7	pH	pH	7.4	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg	0.012	-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg	0.016	0.5	2	25
10	barium	mg/kg	<0.05	20	100	300
11	cadmium	mg/kg	<0.0011	0.04	1	5
12	chromium	mg/kg	<0.005	0.5	10	70
13	copper	mg/kg	0.0084	2	50	100
14	mercury	mg/kg	<0.0005	0.01	0.2	2
15	molybdenum	mg/kg	0.0024	0.5	10	30
16	nickel	mg/kg	<0.005	0.4	10	40
17	lead	mg/kg	<0.005	0.5	10	50
18	antimony	mg/kg	0.0055	0.06	0.7	5
19	selenium	mg/kg	<0.005	0.1	0.5	7
20	zinc	mg/kg	0.063	4	50	200
21	chloride	mg/kg	<10	800	15,000	25,000
22	fluoride	mg/kg	<1	10	150	500
23	sulphate	mg/kg	83	1,000	20,000	50,000
24	phenol index	mg/kg	<0.3	1	-	-
25	DOC (dissolved organic carbon)	mg/kg	<50	500	800	1,000
26	TDS (total dissolved solids)	mg/kg	380	4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Inert WAC criteria fail
	SNRHW WAC criteria fail
	Hazardous WAC criteria fail

Classification of sample: -S4-20/07/2023-0

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

Sample details

Sample name:	LoW Code:
-S4-20/07/2023-0	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0-0.1 m	Entry:
Moisture content:	17 05 03 * (Soil and stones containing hazardous substances)
1.5%	
(wet weight correction)	

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

zinc sulphate: (compound conc.: 0.292%)

Hazard properties (substances considered hazardous until shown otherwise)

HP 2: Oxidizing "waste which may, generally by providing oxygen, cause or contribute to the combustion of other materials"

Hazard Statements hit:

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

Because of determinand:

chromium(VI) oxide: (compound conc.: 0.00009%)

Determinands

Moisture content: 1.5% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	 antimony { antimony trioxide }				52 mg/kg	1.197	61.316	mg/kg	0.00613 %	✓	
	051-005-00-X	215-175-0	1309-64-4								
2	 arsenic { arsenic trioxide }				17 mg/kg	1.32	22.109	mg/kg	0.00221 %	✓	
	033-003-00-0	215-481-4	1327-53-3								
3	 beryllium { beryllium oxide }				0.8 mg/kg	2.775	2.187	mg/kg	0.000219 %	✓	
	004-003-00-8	215-133-1	1304-56-9								
4	 boron { diboron trioxide; boric oxide }				4.1 mg/kg	3.22	13.003	mg/kg	0.0013 %	✓	
	005-008-00-8	215-125-8	1303-86-2								
5	 cadmium { cadmium oxide }				1.2 mg/kg	1.142	1.35	mg/kg	0.000135 %	✓	
	048-002-00-0	215-146-2	1306-19-0								
6	 chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				179.49 mg/kg	1.462	258.4	mg/kg	0.0258 %	✓	
		215-160-9	1308-38-9								
7	 chromium in chromium(VI) compounds { chromium(VI) oxide }				0.51 mg/kg	1.923	0.966	mg/kg	0.0000966 %	✓	
	024-001-00-0	215-607-8	1333-82-0								
8	 copper { dicopper oxide; copper (I) oxide }				360 mg/kg	1.126	399.24	mg/kg	0.0399 %	✓	
	029-002-00-X	215-270-7	1317-39-1								

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
9	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	150	mg/kg		147.75	mg/kg	0.0148 %	✓	
	082-001-00-6											
10	manganese { manganese sulphate }				1100	mg/kg	2.749	2978.069	mg/kg	0.298 %	✓	
	025-003-00-4	232-089-9	7785-87-7									
11	mercury { mercury dichloride }				<0.05	mg/kg	1.353	<0.0677	mg/kg	<0.00000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
12	molybdenum { molybdenum(VI) oxide }				2.7	mg/kg	1.5	3.99	mg/kg	0.000399 %	✓	
	042-001-00-9	215-204-7	1313-27-5									
13	nickel { dinickel hexacyanoferrate }				26	mg/kg	2.806	71.85	mg/kg	0.00719 %	✓	
	028-037-00-8	238-946-3	14874-78-3									
14	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.49	mg/kg	1.405	0.678	mg/kg	0.0000678 %	✓	
	034-002-00-8											
15	zinc { zinc sulphate }				1200	mg/kg	2.469	2918.708	mg/kg	0.292 %	✓	
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]									
16	TPH (C6 to C40) petroleum group				54	mg/kg		53.19	mg/kg	0.00532 %	✓	
			TPH									
17	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
18	benzene				0.0031	mg/kg		0.003	mg/kg	0.000000305 %	✓	
	601-020-00-8	200-753-7	71-43-2									
19	toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
20	ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
21	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]									
22	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 }				<0.5	mg/kg	1.884	<0.942	mg/kg	<0.0000942 %		<LOD
	006-007-00-5											
23	pH				9.8	pH		9.8	pH	9.8 pH		
			PH									
24	naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
25	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8									
26	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9									
27	fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7									
28	phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8									
29	anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7									
30	fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0									
31	pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0									
32	benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3									
33	chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	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
	EU CLP index number	EC Number	CAS Number							
34	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
35	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
36	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							
37	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
38	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							
39	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
40	monohydric phenols				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			P1186							
Total:								0.694 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Hazardous result
	Potentially 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
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 HP3 Flammability discounted due to total concentration of Total Petroleum Hydrocarbons, subject to nil free phase liquids.

Hazard Statements hit:

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

Because of determinand:

benzene: (conc.: 3.05e-07%)

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00532%)

WAC results for sample: -S4-20/07/2023-0

WAC Settings: samples in this Job do not constitute a single population.

WAC limits used to evaluate this sample: "UK"

The WAC used in this report are the WAC defined for the inert, stable non-reactive hazardous and hazardous classes of landfill in the UK. You should check the actual acceptance criteria when the disposal site is identified as they may differ from the generic WAC used in this report.

The sample FAILS the SNRHW (Stable non-reactive hazardous waste in non-hazardous landfill) criteria.

The sample FAILS the Hazardous (Hazardous waste landfill) criteria.

WAC Determinands

Solid Waste Analysis				Landfill Waste Acceptance Criteria Limits		
#	Determinand		User entered data	Inert waste landfill	Stable non-reactive hazardous waste in non-hazardous landfill	Hazardous waste landfill
1	TOC (total organic carbon)	%	5.9	3	5	6
2	LOI (loss on ignition)	%	12	-	-	10
3	BTEX (benzene, toluene, ethylbenzene and xylenes)	mg/kg	<0.01	6	-	-
4	PCBs (polychlorinated biphenyls, 7 congeners)	mg/kg	<0.1	1	-	-
5	Mineral oil (C10 to C40)	mg/kg	92	500	-	-
6	PAHs (polycyclic aromatic hydrocarbons)	mg/kg	<2	100	-	-
7	pH	pH	9.8	-	>6	-
8	ANC (acid neutralisation capacity)	mol/kg	0.005	-	-	-
Eluate Analysis 10:1						
9	arsenic	mg/kg	0.0024	0.5	2	25
10	barium	mg/kg	<0.05	20	100	300
11	cadmium	mg/kg	<0.0011	0.04	1	5
12	chromium	mg/kg	<0.005	0.5	10	70
13	copper	mg/kg	<0.005	2	50	100
14	mercury	mg/kg	<0.0005	0.01	0.2	2
15	molybdenum	mg/kg	0.008	0.5	10	30
16	nickel	mg/kg	<0.005	0.4	10	40
17	lead	mg/kg	<0.005	0.5	10	50
18	antimony	mg/kg	<0.005	0.06	0.7	5
19	selenium	mg/kg	<0.005	0.1	0.5	7
20	zinc	mg/kg	0.026	4	50	200
21	chloride	mg/kg	<10	800	15,000	25,000
22	fluoride	mg/kg	5.4	10	150	500
23	sulphate	mg/kg	18	1,000	20,000	50,000
24	phenol index	mg/kg	<0.3	1	-	-
25	DOC (dissolved organic carbon)	mg/kg	<50	500	800	1,000
26	TDS (total dissolved solids)	mg/kg	750	4,000	60,000	100,000

Key

	User supplied data
	Not applicable
	Inert WAC criteria fail
	SNRHW WAC criteria fail
	Hazardous WAC criteria fail

Appendix A: Classifier defined and non GB MCL determinands

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

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

GB MCL index number: 082-001-00-6

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

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

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 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)

GB MCL index number: 601-023-00-4

Description/Comments:

Additional Hazard Statement(s): Carc. 2; H351

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

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

GB MCL index number: 006-007-00-5

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

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

Reason for additional Hazards Statement(s):

20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

■ 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

▪ **monohydric phenols** (CAS Number: P1186)

Description/Comments: Combined hazards statements from harmonised entries in CLP for phenol, cresols and xylenols (604-001-00-2, 604-004-00-9, 604-006-00-X)

Data source: CLP combined data

Data source date: 26 Mar 2019

Hazard Statements: Muta. 2; H341 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301 , STOT RE 2; H373 , Skin Corr. 1B; H314 , Skin Corr. 1B; H314 >= 3 % , Skin Irrit. 2; H315 1 £ conc. < 3 % , Eye Irrit. 2; H319 1 £ conc. < 3 % , Aquatic Chronic 2; H411

Appendix B: Rationale for selection of metal species

antimony {antimony trioxide}

Worst case CLP species based on hazard statements/molecular weight and low solubility. Industrial sources include: flame retardants in electrical apparatus, textiles and coatings

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

beryllium {beryllium oxide}

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

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

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.

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

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

Worst case CLP species based on hazard statements/molecular weight. Industrial sources include: production stainless steel, electroplating, wood preservation, anti-corrosion agents or coatings, pigments

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.

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

Worst case Chromium species discounted due to history/inputs. Next most reasonable worst case species selected.

manganese {manganese sulphate}

Worst case CLP species based on hazard statements/molecular weight

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight

molybdenum {molybdenum(VI) oxide}

Worst case CLP species based on hazard statements/molecular weight

nickel {dinickel hexacyanoferrate}

Worst case Chromium species discounted due to history/inputs. Next most reasonable worst case species selected.

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

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

zinc {zinc sulphate}

Worst case Chromium species discounted due to history/inputs. Next most reasonable worst case species selected.

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

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.2.GB - Oct 2021**

HazWasteOnline Classification Engine Version: 2023.208.5698.10490 (27 Jul 2023)

HazWasteOnline Database: 2023.208.5698.10490 (27 Jul 2023)

This classification utilises the following guidance and legislation:

WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

15th ATP - Regulation (EU) 2020/1182 of 19 May 2020

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

Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK:

2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021

Appendix C – Sample map

- 1 Retain and refurbish existing structures.
- 2 Demolish structures, retaining slabs for re-use. Including large trees and pond.
- 3 Assume 100mm scrape and removal.
Lay 100mm type 1 to all areas.
Cost option to allow for 100mm additional type 1.

4 Repair existing area locally to form service road.
connect into existing drainage.

5 1.8m high galv. palisade fence with concrete gravelboard in front.

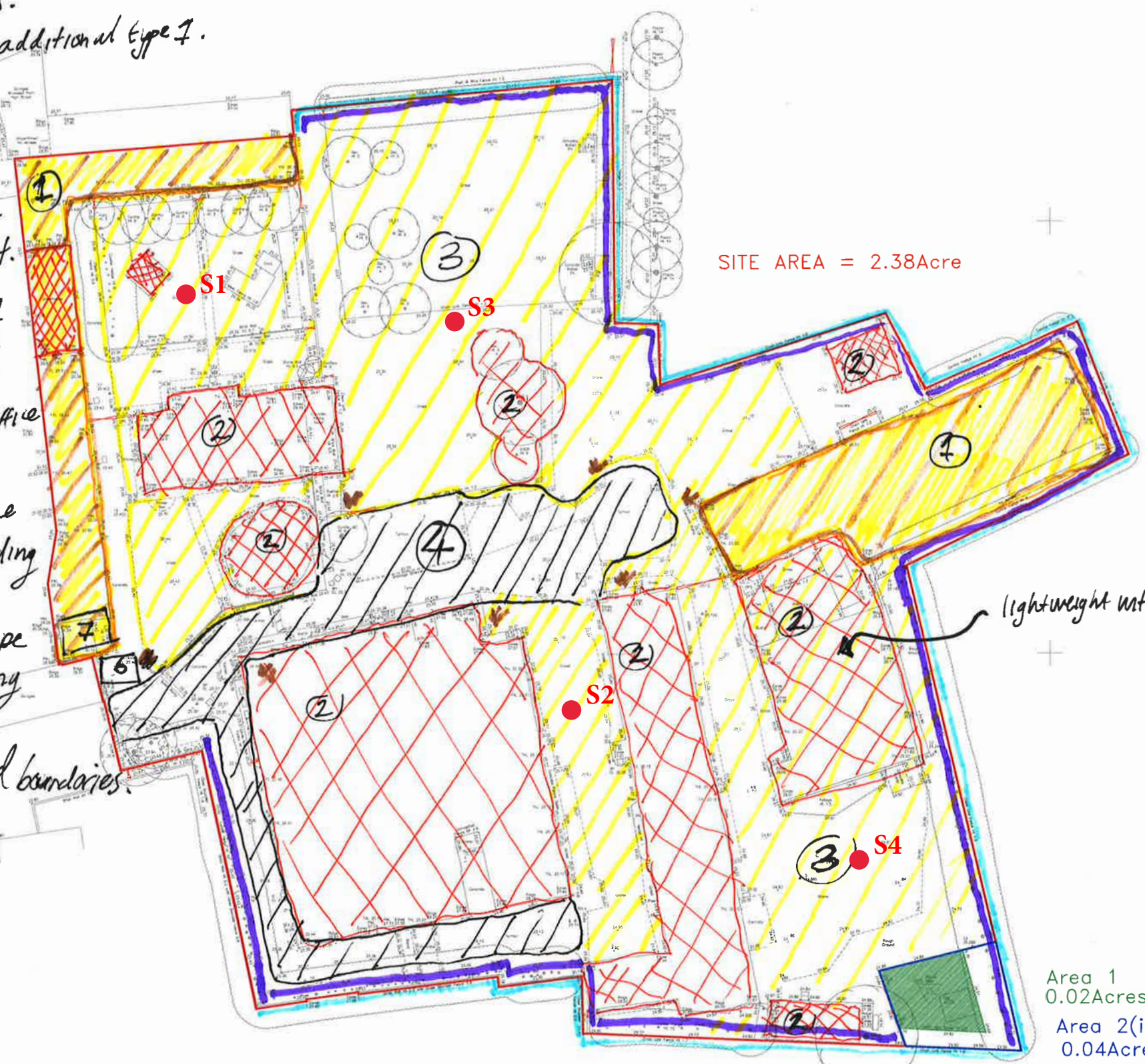
6 construct electrical substation and 11kV rise with UKDN to bring in new electrical supply from highway.

7 Refurbish area to include site office and communal WCs.

8 Electrical Bring capped 3 phase electrical to 7. no locations including trenches and draw pits.

9 water. Bring capped standpipe adjacent to electrical incoming to 7 no. locations

10 maintain existing landscaped boundaries.



Harlington, 21/06/23 GW.

NOTES
DRAWINGS USED ARE BASED ON OUR OWN AND OBTAINED
FROM THE ACTING AND NETWORK
FIELD AND RELATED TO - DRAINAGE SURVEYING AND NETWORK

ABBREVIATIONS (where applicable)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
1	1.8m high galv. palisade fence	1	1.8m high galv. palisade fence
2	2.0m high galv. palisade fence	2	2.0m high galv. palisade fence
3	3.0m high galv. palisade fence	3	3.0m high galv. palisade fence
4	4.0m high galv. palisade fence	4	4.0m high galv. palisade fence
5	5.0m high galv. palisade fence	5	5.0m high galv. palisade fence
6	6.0m high galv. palisade fence	6	6.0m high galv. palisade fence
7	7.0m high galv. palisade fence	7	7.0m high galv. palisade fence
8	8.0m high galv. palisade fence	8	8.0m high galv. palisade fence
9	9.0m high galv. palisade fence	9	9.0m high galv. palisade fence
10	10.0m high galv. palisade fence	10	10.0m high galv. palisade fence

NOTES
1. Change the area shown on the drawing from the survey
for safety reasons and should be reported to the relevant
authorities in writing.
2. The area shown on the drawing is the area shown on the
survey and should not be used for any other purpose.
3. The area shown on the drawing is the area shown on the
survey and should not be used for any other purpose.
4. The area shown on the drawing is the area shown on the
survey and should not be used for any other purpose.
5. The area shown on the drawing is the area shown on the
survey and should not be used for any other purpose.
6. The area shown on the drawing is the area shown on the
survey and should not be used for any other purpose.
7. The area shown on the drawing is the area shown on the
survey and should not be used for any other purpose.
8. The area shown on the drawing is the area shown on the
survey and should not be used for any other purpose.
9. The area shown on the drawing is the area shown on the
survey and should not be used for any other purpose.
10. The area shown on the drawing is the area shown on the
survey and should not be used for any other purpose.

371A HIGH STREET
HARLINGTON
LONDON
UB3 5DQ

TOPOGRAPHICAL SURVEY

PREPARED FOR: WORKS DEPARTMENT & PROPERTY LTD.
177450 N
177350 N
508500 E
508550 E

DATE: 21/06/23
REVISION: 1

DRAWING NO: N 9997/1
DRAWING TITLE: TOPOGRAPHICAL

SCALE: 1 : 200 (AO)
SEE ALSO DWG NOS:

SHEET: 1 of 1
REF NO: N 9997

Appendix D - Photos



Photos - S1 showing location sample was obtained, and burned waste in the vicinity – unsampled.



Photos - S2 showing fire damaged asbestos building and asbestos fragments littering the surface.



Photos - S3 showing location sample was obtained



Photos - S4 showing location sample was obtained and waste inclusions within burnt waste.