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PRIVATE AND CONFIDENTIAL

5 April 2023
John Crank Building Redevelopment
65208409
Document Reference: 65208409-SWE-XX-XX-T-GE-2004

**John Crank Building Redevelopment – Waste Classification
Assessment**

Dear Luke

Sweco have been commissioned to undertake a waste classification assessment of the soil materials destined to be removed from site as part of the redevelopment.

The site is located within the centre of the Brunel University campus, Kingston Lane, Uxbridge UB8 3PH. The National Grid Reference for the approximate centre of the site is 506071, 182721.

It is Sweco's understanding that a cut of 600mm will be undertaken across the site as part of the enabling works prior to redevelopment. A Tier 2 contamination assessment (ref. 65208409-SWE-XX-XX-T-GE-0001) was undertaken in January 2023 which comprised trial pitting using a mechanical excavator. As part of this assessment, representative samples were collected of the soils to be cut.

The following surveys were also undertaken by Asbestos Solution Providers (ASP) across the subject site:

- ASP (June 2020) Asbestos Sample Analysis; ref. J003033; and
- ASP (January 2023) Asbestos Sample Analysis; ref. J006116

Legal requirements

Where proposed works require the disposal of unsuitable or surplus excavation arisings, it is a legal requirement to assess the potential wastes to be discarded i.e., destined for disposal off-site.

Waste classification

The following representative range (ground level to 0.6m bgl) of samples were retrieved during Sweco's Tier 2 ground investigation and scheduled for chemical analysis to enable up-front assessment of the likely disposal classification of potential wastes. The results are provided within Appendix A.

Table 1: Samples collected from ground level to 0.6m bgl

Trial pit	Sample depth	Made Ground description
TP1	0.15	Brown very silty very gravelly fine to coarse SAND. Gravel is fine to coarse angular to rounded flint with tile, glass, clinker and brick fragments. Abundant rootlets.
TP2	0.2	Brown very silty very gravelly fine to coarse SAND. Gravel is fine to coarse angular to rounded flint with tile, glass, clinker and brick fragments. Abundant rootlets.
TP2	0.5	Brown clayey gravelly fine to coarse SAND. Gravel is fine to coarse angular to rounded flint. Frequent concrete, brick and tile fragments. Occasional glass, metal and plastic fragments.
TP3	0.2	Brown silty very gravelly fine to coarse SAND. Gravel is fine to coarse angular to rounded flint with tile, marble, glass and brick fragments. Abundant rootlets.
TP4	0.15	Brown gravelly very silty fine to coarse SAND. Gravel is fine to coarse angular to rounded flint with tile, glass and brick fragments. Very rare clinker. Abundant rootlets.
TP4	0.3	Brown silty sandy gravelly CLAY varying to a clayey sandy GRAVEL. Gravel is fine to coarse angular to rounded flint with occasional brick, tile and concrete fragments. Rare concrete cobbles.
TP5	0.2	Brown gravelly very silty fine to coarse SAND. Gravel is fine to coarse angular to rounded flint with tile and brick fragments. Very rare clinker. Abundant rootlets.

Trial pit	Sample depth	Made Ground description
TP5	0.5	Brown clayey sandy fine to coarse subangular to rounded flint GRAVEL. Locally a firm sandy silty very gravelly CLAY. Frequent concrete, brick and tile fragments. Rare concrete rubble.
TP7	0.3	Brown gravelly very silty fine to coarse SAND. Gravel is fine to coarse angular to rounded flint with tile, glass, clinker, wood and brick fragments. Abundant rootlets.

Through ASP's two phases of investigation, 39 suspected asbestos containing samples of either cement, board or bitumen felt were analysed, where ten returned positive results as detailed in the table below.

Table 2: Asbestos fragments encountered by ASP

Sample reference/date	Material sampled	Type of asbestos detected
AA001438/ 5-8 June 2020	Cement debris	Chrysotile
AA001447/ 5-8 June 2020	Cement debris	Chrysotile & Amosite
AA001448/ 5-8 June 2020	Cement debris	Chrysotile
AA001471/ 5-8 June 2020	Cement debris	Chrysotile
AA001472/ 5-8 June 2020	Cement debris	Chrysotile
AA002013/ 19 Jan 2023	Cement debris	Chrysotile
AA002015/ 19 Jan 2023	Bitumen felt	Chrysotile
AA002016/ 19 Jan 2023	Bitumen felt	Chrysotile
AA002021/ 19 Jan 2023	Cement debris	Chrysotile
AA002023/ 19 Jan 2023	Cement debris	Chrysotile

A waste assessment of the available data has been undertaken by Sweco's waste management specialists in accordance with the current waste regulatory framework. Methodologies can be made available on request.

The assessment assumes wastes sampled and analysed of the top 600mm, are generally representative of site ground conditions, however previously unidentified wastes may be present which are inconsistent with the initial assessment, for example at un-sampled depths. Chemical data to allow assessment may be also absent or limited. In addition, the receiving disposal facility may require further assessment. If encountered during the works, and disposal is proposed, these should be segregated and assessed following excavation to inform disposal options.

HazWasteOnline™ Assessment

Following selection of the potential List of Waste (LoW) codes, a hazardous properties assessment Environment Agency (EA) Technical Guidance WM3¹ was undertaken using the industry recognised HazWasteOnline™ screening tool; a web-based software for classifying waste that follows the latest NRW guidance and European regulations. Outputs of the assessment enclosed in Appendix B.

The nine made ground samples (soils and stones) of the top 600mm assessed were classed as non-hazardous waste (LoW code 17 05 04) under WM3.

Incidental visible asbestos fragments (including Amosite and Chrysotile) were also encountered by ASP in the form of cement debris² and bitumen felt³; however, no fibres were recorded within the soil matrix of samples analysed by Sweco. Where identified, any asbestos fragments should be appropriately removed in accordance with the construction phase plan (CPP) and construction environmental management plan (CEMP) and disposed of separately (as LoW Code 17 06 05*). Alternatively, bulk wastes including fragments would be treated as mixed hazardous waste for disposal.

Waste disposal options and Waste Acceptance Criteria (WAC) testing

Through careful segregation of the hazardous asbestos fragments (under a watching brief of a suitably qualified person), it may be possible to dispose of the segregated asbestos free soils and stones (which in their own right do not possess hazardous properties) as either inert or non-hazardous waste.

¹ EA/SEPA, Technical Guidance WM3, Guidance on the classification and assessment of waste, 1st Edition v1.1.GB (Jan 2021).

² Laboratory quantification was not possible for the identified pieces of asbestos cement debris. As such, the chrysotile (and occasionally amosite) cement debris has been assessed as containing greater than 0.1% asbestos (according to HSE publication HSG 264: The Survey Guide, the asbestos cement products profiled sheets is 10% to 15% which is greater than the 0.1% HP 7 threshold).

³ Laboratory quantification was not possible for the identified pieces of bitumen felt. As such, the chrysotile bitumen felt has been assessed as containing greater than 0.1% asbestos (according to HSE publication HSG 264: The Survey Guide, the asbestos bitumen products (including roofing felt) is usually 8% Chrysotile which is greater than the 0.1% HP 7 threshold).

In accordance with the principles of the EU Waste Framework Directive (WFD) 2008/98/EC waste hierarchy, wastes should be diverted from landfill to appropriately licensed waste processing, treatment, or recovery facilities within the region. Opportunities should be sought where possible to re-use suitable arisings on other construction projects or developments.

Although not preferable, where landfill disposal is required for these wastes as a last resort, WAC testing has been undertaken. Two representative samples (report ref.) of the made ground material to be disposed off-site (ground level to 600mm) were analysed which classify the soil matrix suitable for an inert cell, providing asbestos containing material is removed.

Summary

A waste classification assessment has been completed of the soils destined to be disposed off-site as part of the redevelopment.

Representative samples have been classified using the HazWasteOnline™ screening tool which has determined that providing asbestos containing materials are removed from the arisings under a watching brief, arisings could be classified as non-hazardous waste.

Further to this, WAC testing has revealed that concentrations are suitable for disposal of an inert landfill cell, providing asbestos containing materials have been removed and no cross-contamination has occurred from the visible asbestos fragments.

Alternatively, the material could be disposed as a mixed hazardous waste without removing the hazardous asbestos fragments, however, this would be at a substantial expense.

This report should be provided and reviewed by any receiving landfill, in line with their specific permit requirements. Acceptance of this material will be at the discretion of the landfill operator and further analysis may be required at an agreed frequency.

Yours sincerely



Chris McCartney

Enc.: Appendices A and B

Appendix A – Chemical results (23-00929.1, 23-03429.1)



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t: 01622 850410

DETS Report No: 23-00929

Site Reference: John Crank Building Development

Project / Job Ref: 65208409

Order No: None Supplied

Sample Receipt Date: 23/01/2023

Sample Scheduled Date: 25/01/2023

Report Issue Number: 1

Reporting Date: 03/02/2023

Authorised by:

Dave Ashworth
Technical Manager

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

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.



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Soil Analysis Certificate						
DETS Report No: 23-00929	Date Sampled	19/01/23	19/01/23	19/01/23	19/01/23	19/01/23
Sweco UK Limited	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: John Crank Building Development	TP / BH No	TP01	TP01	TP01	TP02	TP02
Project / Job Ref: 65208409	Additional Refs	ES1	ES2	ES3	ES1	ES2
Order No: None Supplied	Depth (m)	0.15	0.75	1.50	0.20	0.50
Reporting Date: 03/02/2023	DETS Sample No	629940	629941	629942	629943	629944

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	MCERTS	7.9	8.3	7.7
Total Cyanide	mg/kg	< 1	NONE	< 1	< 1	< 1
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	194	326	55
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.19	0.33	0.06
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5
Organic Matter (SOM)	%	< 0.1	MCERTS	1.6	0.8	0.3
Arsenic (As)	mg/kg	< 2	MCERTS	14	14	16
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2	0.2	< 0.2
Chromium (Cr)	mg/kg	< 2	MCERTS	23	20	19
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	14	15	14
Lead (Pb)	mg/kg	< 3	MCERTS	58	24	8
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	13	32	31
Selenium (Se)	mg/kg	< 2	MCERTS	< 2	< 2	< 2
Zinc (Zn)	mg/kg	< 3	MCERTS	224	88	25
Total Phenols (monohydric)	mg/kg	< 1	NONE	< 2	< 2	< 2

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)

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation



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Soil Analysis Certificate						
DETS Report No: 23-00929	Date Sampled	19/01/23	19/01/23	19/01/23	19/01/23	19/01/23
Sweco UK Limited	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: John Crank Building Development	TP / BH No	TP03	TP04	TP04	TP05	TP05
Project / Job Ref: 65208409	Additional Refs	ES1	ES1	ES2	ES1	ES3
Order No: None Supplied	Depth (m)	0.20	0.15	0.30	0.20	0.50
Reporting Date: 03/02/2023	DETS Sample No	629945	629946	629947	629948	629949

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Asbestos Screen ^(S)	N/a	N/a	ISO17025	Not Detected	Not Detected	Not Detected	Not Detected
pH	pH Units	N/a	MCERTS	8.4	8.1	8.2	8.5
Total Cyanide	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	349	1250	255	260
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.35	1.25	0.25	0.26
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5
Organic Matter (SOM)	%	< 0.1	MCERTS	2.9	2.8	1.7	0.9
Arsenic (As)	mg/kg	< 2	MCERTS	8	8	14	10
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	0.3	0.6	< 0.2	0.2
Chromium (Cr)	mg/kg	< 2	MCERTS	15	14	21	16
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2
Copper (Cu)	mg/kg	< 4	MCERTS	16	16	17	12
Lead (Pb)	mg/kg	< 3	MCERTS	44	65	56	28
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1
Nickel (Ni)	mg/kg	< 3	MCERTS	11	10	24	13
Selenium (Se)	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2
Zinc (Zn)	mg/kg	< 3	MCERTS	48	118	54	53
Total Phenols (monohydric)	mg/kg	< 1	NONE	< 2	< 2	< 2	< 2

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: 23-00929	Date Sampled	19/01/23	19/01/23	19/01/23	19/01/23	
Sweco UK Limited	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: John Crank Building Development	TP / BH No	TP05	TP07	TP07	TP07	
Project / Job Ref: 65208409	Additional Refs	ES4	ES1	ES2	ES3	
Order No: None Supplied	Depth (m)	1.50	0.30	0.80	1.70	
Reporting Date: 03/02/2023	DETS Sample No	629950	629951	629952	629953	

Determinand	Unit	RL	Accreditation					
Asbestos Screen ^(S)	N/a	N/a	ISO17025		Not Detected			
pH	pH Units	N/a	MCERTS	8.4	9.2	8.3	7.9	
Total Cyanide	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	
W/S Sulphate as SO ₄ (2:1)	mg/l	< 10	MCERTS	256	340	125	115	
W/S Sulphate as SO ₄ (2:1)	g/l	< 0.01	MCERTS	0.26	0.34	0.12	0.11	
Sulphide	mg/kg	< 5	NONE	< 5	< 5	< 5	< 5	
Organic Matter (SOM)	%	< 0.1	MCERTS	0.7	1.9	0.4	0.5	
Arsenic (As)	mg/kg	< 2	MCERTS	21	12	21	16	
W/S Boron	mg/kg	< 1	NONE	< 1	< 1	< 1	< 1	
Cadmium (Cd)	mg/kg	< 0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	
Chromium (Cr)	mg/kg	< 2	MCERTS	18	19	25	23	
Chromium (hexavalent)	mg/kg	< 2	NONE	< 2	< 2	< 2	< 2	
Copper (Cu)	mg/kg	< 4	MCERTS	16	19	16	18	
Lead (Pb)	mg/kg	< 3	MCERTS	21	67	18	15	
Mercury (Hg)	mg/kg	< 1	MCERTS	< 1	< 1	< 1	< 1	
Nickel (Ni)	mg/kg	< 3	MCERTS	31	14	41	36	
Selenium (Se)	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2	
Zinc (Zn)	mg/kg	< 3	MCERTS	38	79	36	47	
Total Phenols (monohydric)	mg/kg	< 1	NONE	< 2	< 2	< 2	< 2	

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: 23-00929	Date Sampled	19/01/23	19/01/23	19/01/23	19/01/23	19/01/23
Sweco UK Limited	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: John Crank Building Development	TP / BH No	TP01	TP01	TP01	TP02	TP02
Project / Job Ref: 65208409	Additional Refs	ES1	ES2	ES3	ES1	ES2
Order No: None Supplied	Depth (m)	0.15	0.75	1.50	0.20	0.50
Reporting Date: 03/02/2023	DETS Sample No	629940	629941	629942	629943	629944

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1
Phenanthrene	mg/kg	< 0.1	MCERTS	0.13	< 0.1	0.61
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.19
Fluoranthene	mg/kg	< 0.1	MCERTS	0.45	0.22	1.80
Pyrene	mg/kg	< 0.1	MCERTS	0.46	0.19	1.96
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.49	0.17	1.48
Chrysene	mg/kg	< 0.1	MCERTS	0.35	0.14	1.02
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.73	0.27	1.75
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.25	< 0.1	0.59
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.80	0.27	1.74
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.45	0.12	1
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	0.13
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.38	0.12	0.70
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	4.5	< 1.6	13

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 23-00929	Date Sampled	19/01/23	19/01/23	19/01/23	19/01/23	19/01/23
Sweco UK Limited	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: John Crank Building Development	TP / BH No	TP03	TP04	TP04	TP05	TP05
Project / Job Ref: 65208409	Additional Refs	ES1	ES1	ES2	ES1	ES3
Order No: None Supplied	Depth (m)	0.20	0.15	0.30	0.20	0.50
Reporting Date: 03/02/2023	DETS Sample No	629945	629946	629947	629948	629949

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.14
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.13
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.14
Phenanthrene	mg/kg	< 0.1	MCERTS	0.34	0.36	< 0.1	1.08
Anthracene	mg/kg	< 0.1	MCERTS	0.12	< 0.1	< 0.1	0.28
Fluoranthene	mg/kg	< 0.1	MCERTS	1.15	0.96	0.25	1.46
Pyrene	mg/kg	< 0.1	MCERTS	1.22	0.97	0.23	1.38
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	1.07	1.02	0.23	1.09
Chrysene	mg/kg	< 0.1	MCERTS	0.64	0.55	0.15	0.77
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	1.08	1.04	0.27	1.27
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	0.34	0.33	< 0.1	0.48
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	1.17	1.08	0.25	1.29
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	0.73	0.60	0.14	0.60
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	0.11
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	0.49	0.43	< 0.1	0.42
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	8.3	7.3	< 1.6	10.6



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Soil Analysis Certificate - Speciated PAHs						
DETS Report No: 23-00929	Date Sampled	19/01/23	19/01/23	19/01/23	19/01/23	
Sweco UK Limited	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: John Crank Building	TP / BH No	TP05	TP07	TP07	TP07	
Development	Additional Refs	ES4	ES1	ES2	ES3	
Project / Job Ref: 65208409	Depth (m)	1.50	0.30	0.80	1.70	
Order No: None Supplied	DETS Sample No	629950	629951	629952	629953	
Reporting Date: 03/02/2023						

Determinand	Unit	RL	Accreditation					
Naphthalene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Acenaphthylene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Acenaphthene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Fluorene	mg/kg	< 0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	
Phenanthrene	mg/kg	< 0.1	MCERTS	< 0.1	0.96	< 0.1	< 0.1	
Anthracene	mg/kg	< 0.1	MCERTS	< 0.1	0.26	< 0.1	< 0.1	
Fluoranthene	mg/kg	< 0.1	MCERTS	0.18	2.36	< 0.1	< 0.1	
Pyrene	mg/kg	< 0.1	MCERTS	0.16	2.28	< 0.1	< 0.1	
Benzo(a)anthracene	mg/kg	< 0.1	MCERTS	0.11	1.97	< 0.1	< 0.1	
Chrysene	mg/kg	< 0.1	MCERTS	< 0.1	1.52	< 0.1	< 0.1	
Benzo(b)fluoranthene	mg/kg	< 0.1	MCERTS	0.15	2.95	< 0.1	< 0.1	
Benzo(k)fluoranthene	mg/kg	< 0.1	MCERTS	< 0.1	0.97	< 0.1	< 0.1	
Benzo(a)pyrene	mg/kg	< 0.1	MCERTS	0.16	2.76	< 0.1	< 0.1	
Indeno(1,2,3-cd)pyrene	mg/kg	< 0.1	MCERTS	< 0.1	1.36	< 0.1	< 0.1	
Dibenz(a,h)anthracene	mg/kg	< 0.1	MCERTS	< 0.1	0.21	< 0.1	< 0.1	
Benzo(ghi)perylene	mg/kg	< 0.1	MCERTS	< 0.1	0.96	< 0.1	< 0.1	
Total EPA-16 PAHs	mg/kg	< 1.6	MCERTS	< 1.6	18.6	< 1.6	< 1.6	



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Soil Analysis Certificate - TPH LQM Banded

DETS Report No: 23-00929	Date Sampled	19/01/23	19/01/23	19/01/23	19/01/23	19/01/23
Sweco UK Limited	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: John Crank Building Development	TP / BH No	TP01	TP01	TP01	TP02	TP02
Project / Job Ref: 65208409	Additional Refs	ES1	ES2	ES3	ES1	ES2
Order No: None Supplied	Depth (m)	0.15	0.75	1.50	0.20	0.50
Reporting Date: 03/02/2023	DETS Sample No	629940	629941	629942	629943	629944

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3
Aliphatic >C16 - C35	mg/kg	< 10	MCERTS	< 10	35	173
Aliphatic >C35 - C44	mg/kg	< 10	NONE	< 10	14	132
Aliphatic (C5 - C44)	mg/kg	< 30	NONE	< 30	49	310
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	8	12	8
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	43	< 10	61
Aromatic >C35 - C44	mg/kg	< 10	NONE	< 10	< 10	68
Aromatic (>C5 - C44)	mg/kg	< 30	NONE	51	< 30	73
Total >C5 - C44	mg/kg	< 60	NONE	< 60	< 60	122
						478
						74

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation



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Soil Analysis Certificate - TPH LQM Banded

DETS Report No: 23-00929	Date Sampled	19/01/23	19/01/23	19/01/23	19/01/23	19/01/23
Sweco UK Limited	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: John Crank Building Development	TP / BH No	TP03	TP04	TP04	TP05	TP05
Project / Job Ref: 65208409	Additional Refs	ES1	ES1	ES2	ES1	ES3
Order No: None Supplied	Depth (m)	0.20	0.15	0.30	0.20	0.50
Reporting Date: 03/02/2023	DETS Sample No	629945	629946	629947	629948	629949

Determinand	Unit	RL	Accreditation	(n)	(n)	(n)	(n)
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3
Aliphatic >C16 - C35	mg/kg	< 10	MCERTS	116	< 10	< 10	< 10
Aliphatic >C35 - C44	mg/kg	< 10	NONE	55	< 10	< 10	< 10
Aliphatic (C5 - C44)	mg/kg	< 30	NONE	171	< 30	< 30	< 30
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	8	< 3	< 3	5
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	109	18	< 10	16
Aromatic >C35 - C44	mg/kg	< 10	NONE	98	< 10	< 10	< 10
Aromatic (>C5 - C44)	mg/kg	< 30	NONE	215	< 30	< 30	< 30
Total >C5 - C44	mg/kg	< 60	NONE	386	< 60	< 60	< 60



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Soil Analysis Certificate - TPH LQM Banded

DETS Report No: 23-00929	Date Sampled	19/01/23	19/01/23	19/01/23	19/01/23
Sweco UK Limited	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: John Crank Building Development	TP / BH No	TP05	TP07	TP07	TP07
Project / Job Ref: 65208409	Additional Refs	ES4	ES1	ES2	ES3
Order No: None Supplied	Depth (m)	1.50	0.30	0.80	1.70
Reporting Date: 03/02/2023	DETS Sample No	629950	629951	629952	629953

Determinand	Unit	RL	Accreditation				
Aliphatic >C5 - C6	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Aliphatic >C6 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Aliphatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2
Aliphatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2
Aliphatic >C12 - C16	mg/kg	< 3	MCERTS	< 3	< 3	< 3	< 3
Aliphatic >C16 - C35	mg/kg	< 10	MCERTS	< 10	< 10	< 10	< 10
Aliphatic >C35 - C44	mg/kg	< 10	NONE	< 10	< 10	< 10	< 10
Aliphatic (C5 - C44)	mg/kg	< 30	NONE	< 30	< 30	< 30	< 30
Aromatic >C5 - C7	mg/kg	< 0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01
Aromatic >C7 - C8	mg/kg	< 0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05
Aromatic >C8 - C10	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2
Aromatic >C10 - C12	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2
Aromatic >C12 - C16	mg/kg	< 2	MCERTS	< 2	< 2	< 2	< 2
Aromatic >C16 - C21	mg/kg	< 3	MCERTS	< 3	8	< 3	< 3
Aromatic >C21 - C35	mg/kg	< 10	MCERTS	< 10	30	< 10	< 10
Aromatic >C35 - C44	mg/kg	< 10	NONE	< 10	< 10	< 10	< 10
Aromatic (>C5 - C44)	mg/kg	< 30	NONE	< 30	38	< 30	< 30
Total >C5 - C44	mg/kg	< 60	NONE	< 60	< 60	< 60	< 60



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 23-00929	Date Sampled	19/01/23	19/01/23	19/01/23	19/01/23	19/01/23
Sweco UK Limited	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: John Crank Building Development	TP / BH No	TP01	TP01	TP01	TP02	TP02
Project / Job Ref: 65208409	Additional Refs	ES1	ES2	ES3	ES1	ES2
Order No: None Supplied	Depth (m)	0.15	0.75	1.50	0.20	0.50
Reporting Date: 03/02/2023	DETS Sample No	629940	629941	629942	629943	629944

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

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 23-00929	Date Sampled	19/01/23	19/01/23	19/01/23	19/01/23	19/01/23
Sweco UK Limited	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Site Reference: John Crank Building Development	TP / BH No	TP03	TP04	TP04	TP05	TP05
Project / Job Ref: 65208409	Additional Refs	ES1	ES1	ES2	ES1	ES3
Order No: None Supplied	Depth (m)	0.20	0.15	0.30	0.20	0.50
Reporting Date: 03/02/2023	DETS Sample No	629945	629946	629947	629948	629949

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



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Soil Analysis Certificate - BTEX / MTBE						
DETS Report No: 23-00929	Date Sampled	19/01/23	19/01/23	19/01/23	19/01/23	
Sweco UK Limited	Time Sampled	None Supplied	None Supplied	None Supplied	None Supplied	
Site Reference: John Crank Building Development	TP / BH No	TP05	TP07	TP07	TP07	
Project / Job Ref: 65208409	Additional Refs	ES4	ES1	ES2	ES3	
Order No: None Supplied	Depth (m)	1.50	0.30	0.80	1.70	
Reporting Date: 03/02/2023	DETS Sample No	629950	629951	629952	629953	

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



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Soil Analysis Certificate - Sample Descriptions

DETS Report No: 23-00929	
Sweco UK Limited	
Site Reference: John Crank Building Development	
Project / Job Ref: 65208409	
Order No: None Supplied	
Reporting Date: 03/02/2023	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
629940	TP01	ES1	0.15	7.4	Brown sandy clay with stones and rubble
629941	TP01	ES2	0.75	7.7	Brown sandy clay with stones and concrete
629942	TP01	ES3	1.50	7.4	Light brown sandy gravel with stones
629943	TP02	ES1	0.20	9.9	Brown sandy gravel with stones and concrete
629944	TP02	ES2	0.50	12.5	Brown sandy gravel with stones and concrete
629945	TP03	ES1	0.20	7.7	Brown sandy gravel with stones and concrete
629946	TP04	ES1	0.15	11.7	Brown sandy gravel with stones and rubble
629947	TP04	ES2	0.30	11.3	Brown gravelly sand with stones
629948	TP05	ES1	0.20	9.9	Brown sandy gravel with stones and concrete
629949	TP05	ES3	0.50	7.6	Brown sandy gravel with stones and concrete
629950	TP05	ES4	1.50	12.8	Brown gravelly sand with stones
629951	TP07	ES1	0.30	11.3	Brown gravelly sand with stones and concrete
629952	TP07	ES2	0.80	9.4	Brown gravelly sand with stones
629953	TP07	ES3	1.70	13.3	Light brown sandy clay with stones

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

Insufficient Sample ^{1/5}

Unsuitable Sample ^{1/5}



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Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 23-00929

Sweco UK Limited

Site Reference: John Crank Building Development

Project / Job Ref: 65208409

Order No: None Supplied

Reporting Date: 03/02/2023

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	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



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DETS Report No: 23-03429

Site Reference: John Crank Building Development

Project / Job Ref: 65208409

Order No: None Supplied

Sample Receipt Date: 14/03/2023

Sample Scheduled Date: 14/03/2023

Report Issue Number: 1

Reporting Date: 21/03/2023

Authorised by:

Kevin Old
Operations Director

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

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.

For Topsoil and WAC analysis the expanded uncertainty measurement should be considered while evaluating results against compliance values.

Waste Acceptance Criteria Analytical Certificate - BS EN 12457/2									
DETS Report No: 23-03429		Date Sampled	23/02/23		Landfill Waste Acceptance Criteria Limits Inert Waste Landfill Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill Hazardous Waste Landfill				
Sweco UK Limited		Time Sampled	None Supplied						
Site Reference: John Crank Building Development		TP / BH No	WAC02						
Project / Job Ref: 65208409		Additional Refs	None Supplied						
Order No: None Supplied		Depth (m)	None Supplied						
Reporting Date: 21/03/2023		DETS Sample No	640340						
Determinand	Unit	MDL							
TOC ^{MU}	%	< 0.1	0.8						
Loss on Ignition ^{MU}	%	< 0.01	2.21						
BTEX ^{MU}	mg/kg	< 0.05	< 0.05						
Sum of PCBs	mg/kg	< 0.1	< 0.1						
Mineral Oil ^{MU}	mg/kg	< 10	40						
Total PAH ^{MU}	mg/kg	< 1.7	31.1						
pH ^{MU}	pH Units	N/a	8.8						
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	1.5						
Eluate Analysis			10:1 mg/l			Cumulative 10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic ^U			< 0.01			< 0.1	0.5	2	25
Barium ^U			< 0.02			< 0.2	20	100	300
Cadmium ^U			< 0.0005			< 0.005	0.04	1	5
Chromium ^U			< 0.005			< 0.05	0.5	10	70
Copper ^U			< 0.01			< 0.1	2	50	100
Mercury ^U			< 0.0005			< 0.005	0.01	0.2	2
Molybdenum ^U			< 0.001			< 0.01	0.5	10	30
Nickel ^U			< 0.007			< 0.07	0.4	10	40
Lead ^U			< 0.005			< 0.05	0.5	10	50
Antimony ^U			< 0.005			< 0.05	0.06	0.7	5
Selenium ^U			< 0.005			< 0.05	0.1	0.5	7
Zinc ^U			< 0.005			< 0.05	4	50	200
Chloride ^U			1.3			13	800	15000	25000
Fluoride ^U			< 0.5			< 5	10	150	500
Sulphate ^U			45.6			457	1000	20000	50000
TDS			96			960	4000	60000	100000
Phenol Index			< 0.01			< 0.1	1	-	-
DOC			7.9			78.6	500	800	1000
Leach Test Information									
Sample Mass (kg)			0.10						
Dry Matter (%)			92.4						
Moisture (%)			8.2						
Stage 1									
Volume Eluate L10 (litres)			0.89						
Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion Stated limits are for guidance only and DETS Ltd cannot be held responsible for any discrepancies with current legislation M Denotes MCERTS accredited test U Denotes ISO17025 accredited test									

Waste Acceptance Criteria Analytical Certificate - BS EN 12457/2																																							
DETS Report No: 23-03429		Date Sampled	23/02/23		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: left; padding: 5px;">Landfill Waste Acceptance Criteria Limits</th> </tr> <tr> <th style="width: 33%; padding: 5px;">Inert Waste Landfill</th> <th style="width: 33%; padding: 5px;">Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill</th> <th style="width: 33%; padding: 5px;">Hazardous Waste Landfill</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">3%</td> <td style="text-align: center; padding: 5px;">5%</td> <td style="text-align: center; padding: 5px;">6%</td> </tr> <tr> <td style="text-align: center; padding: 5px;">--</td> <td style="text-align: center; padding: 5px;">--</td> <td style="text-align: center; padding: 5px;">10%</td> </tr> <tr> <td style="text-align: center; padding: 5px;">6</td> <td style="text-align: center; padding: 5px;">--</td> <td style="text-align: center; padding: 5px;">--</td> </tr> <tr> <td style="text-align: center; padding: 5px;">1</td> <td style="text-align: center; padding: 5px;">--</td> <td style="text-align: center; padding: 5px;">--</td> </tr> <tr> <td style="text-align: center; padding: 5px;">500</td> <td style="text-align: center; padding: 5px;">--</td> <td style="text-align: center; padding: 5px;">--</td> </tr> <tr> <td style="text-align: center; padding: 5px;">100</td> <td style="text-align: center; padding: 5px;">--</td> <td style="text-align: center; padding: 5px;">--</td> </tr> <tr> <td style="text-align: center; padding: 5px;">--</td> <td style="text-align: center; padding: 5px;">>6</td> <td style="text-align: center; padding: 5px;">--</td> </tr> <tr> <td style="text-align: center; padding: 5px;">--</td> <td style="text-align: center; padding: 5px;">To be evaluated</td> <td style="text-align: center; padding: 5px;">To be evaluated</td> </tr> </tbody> </table>					Landfill Waste Acceptance Criteria Limits			Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill	3%	5%	6%	--	--	10%	6	--	--	1	--	--	500	--	--	100	--	--	--	>6	--	--	To be evaluated	To be evaluated
Landfill Waste Acceptance Criteria Limits																																							
Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill																																					
3%	5%	6%																																					
--	--	10%																																					
6	--	--																																					
1	--	--																																					
500	--	--																																					
100	--	--																																					
--	>6	--																																					
--	To be evaluated	To be evaluated																																					
Sweco UK Limited		Time Sampled	None Supplied																																				
Site Reference: John Crank Building Development		TP / BH No	WAC04																																				
Project / Job Ref: 65208409		Additional Refs	None Supplied																																				
Order No: None Supplied		Depth (m)	None Supplied																																				
Reporting Date: 21/03/2023		DETS Sample No	640341																																				
Determinand	Unit	MDL																																					
TOC ^{MU}	%	< 0.1	1.5																																				
Loss on Ignition ^{MU}	%	< 0.01	5.60																																				
BTEX ^{MU}	mg/kg	< 0.05	< 0.05																																				
Sum of PCBs	mg/kg	< 0.1	< 0.1																																				
Mineral Oil ^{MU}	mg/kg	< 10	< 10																																				
Total PAH ^{MU}	mg/kg	< 1.7	94.5																																				
pH ^{MU}	pH Units	N/a	8.8																																				
Acid Neutralisation Capacity	mol/kg (+/-)	< 1	1.5																																				
Eluate Analysis			10:1 mg/l			Cumulative 10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)																																
Arsenic ^U			< 0.01			< 0.1	0.5	2	25																														
Barium ^U			< 0.02			< 0.2	20	100	300																														
Cadmium ^U			< 0.0005			< 0.005	0.04	1	5																														
Chromium ^U			< 0.005			< 0.05	0.5	10	70																														
Copper ^U			< 0.01			< 0.1	2	50	100																														
Mercury ^U			< 0.0005			< 0.005	0.01	0.2	2																														
Molybdenum ^U			0.003			0.03	0.5	10	30																														
Nickel ^U			< 0.007			< 0.07	0.4	10	40																														
Lead ^U			< 0.005			< 0.05	0.5	10	50																														
Antimony ^U			< 0.005			< 0.05	0.06	0.7	5																														
Selenium ^U			< 0.005			< 0.05	0.1	0.5	7																														
Zinc ^U			< 0.005			< 0.05	4	50	200																														
Chloride ^U			2.0			20	800	15000	25000																														
Fluoride ^U			< 0.5			< 5	10	150	500																														
Sulphate ^U			52.3			523	1000	20000	50000																														
TDS			110			1101	4000	60000	100000																														
Phenol Index			< 0.01			< 0.1	1	-	-																														
DOC			10.9			109	500	800	1000																														
Leach Test Information																																							
Sample Mass (kg)			0.10																																				
Dry Matter (%)			89.6																																				
Moisture (%)			11.8																																				
Stage 1																																							
Volume Eluate L10 (litres)			0.89																																				
Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Samples Descriptions page describes if the test is performed on the dried or as-received portion Stated limits are for guidance only and DETS Ltd cannot be held responsible for any discrepancies with current legislation M Denotes MCERTS accredited test U Denotes ISO17025 accredited test																																							



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



Soil Analysis Certificate - Sample Descriptions

DETS Report No: 23-03429	
Sweco UK Limited	
Site Reference: John Crank Building Development	
Project / Job Ref: 65208409	
Order No: None Supplied	
Reporting Date: 21/03/2023	

DETS Sample No	TP / BH No	Additional Refs	Depth (m)	Moisture Content (%)	Sample Matrix Description
\$ 640340	WAC02	None Supplied	None Supplied	7.6	Brown sandy gravel with stones and concrete
\$ 640341	WAC04	None Supplied	None Supplied	10.4	Brown sandy gravel with stones and concrete

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

Insufficient Sample ^{1/s}

Unsuitable Sample ^{U/S}

\$ samples exceeded recommended holding times



DETS Ltd
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Lenham Heath
Maidstone
Kent ME17 2JN
Tel : 01622 850410



Soil Analysis Certificate - Methodology & Miscellaneous Information

DETS Report No: 23-03429

Sweco UK Limited

Site Reference: John Crank Building Development

Project / Job Ref: 65208409

Order No: None Supplied

Reporting Date: 21/03/2023

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	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



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



4480

Water Analysis Certificate - Methodology & Miscellaneous Information	
DETS Report No: 23-03429	
Sweco UK Limited	
Site Reference: John Crank Building Development	
Project / Job Ref: 65208409	
Order No: None Supplied	
Reporting Date: 21/03/2023	

Matrix	Analysed On	Determinand	Brief Method Description	Method No
Water	UF	Alkalinity	Determination of alkalinity by titration against hydrochloric acid using bromocresol green as the end point	E103
Water	F	Ammoniacal Nitrogen	Determination of ammoniacal nitrogen by discrete analyser.	E126
Water	UF	BTEX	Determination of BTEX by headspace GC-MS	E101
Water	F	Cations	Determination of cations by filtration followed by ICP-MS	E102
Water	UF	Chemical Oxygen Demand (COD)	Determination using a COD reactor followed by colorimetry	E112
Water	F	Chloride	Determination of chloride by filtration & analysed by ion chromatography	E109
Water	F	Chromium - Hexavalent	Determination of hexavalent chromium by acidification, addition of 1,5 diphenylcarbazide followed by	E116
Water	UF	Cyanide - Complex	Determination of complex cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Free	Determination of free cyanide by distillation followed by colorimetry	E115
Water	UF	Cyanide - Total	Determination of total cyanide by distillation followed by colorimetry	E115
Water	UF	Cyclohexane Extractable Matter (CEM)	Gravimetrically determined through liquid:liquid extraction with cyclohexane	E111
Water	F	Diesel Range Organics (C10 - C24)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	Dissolved Organic Content (DOC)	Determination of DOC by filtration followed by low heat with persulphate addition followed by IR dete	E110
Water	UF	Electrical Conductivity	Determination of electrical conductivity by electrometric measurement	E123
Water	F	EPH (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID	E104
Water	F	EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)	Determination of liquid:liquid extraction with hexane followed by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS	E104
Water	F	Fluoride	Determination of Fluoride by filtration & analysed by ion chromatography	E109
Water	F	Hardness	Determination of Ca and Mg by ICP-MS followed by calculation	E102
Leachate	F	Leachate Preparation - NRA	Based on National Rivers Authority leaching test 1994	E301
Leachate	F	Leachate Preparation - WAC	Based on BS EN 12457 Pt1, 2, 3	E302
Water	F	Metals	Determination of metals by filtration followed by ICP-MS	E102
Water	F	Mineral Oil (C10 - C40)	Determination of liquid:liquid extraction with hexane followed by GI-FID	E104
Water	F	Nitrate	Determination of nitrate by filtration & analysed by ion chromatography	E109
Water	UF	Monohydric Phenol	Determination of phenols by distillation followed by colorimetry	E121
Water	F	PAH - Speciated (EPA 16)	Determination of PAH compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E105
Water	F	PCB - 7 Congeners	Determination of PCB compounds by concentration through SPE cartridge, collection in dichloromethane	E108
Water	UF	Petroleum Ether Extract (PEE)	Gravimetrically determined through liquid:liquid extraction with petroleum ether	E111
Water	UF	pH	Determination of pH by electrometric measurement	E107
Water	F	Phosphate	Determination of phosphate by filtration & analysed by ion chromatography	E109
Water	UF	Redox Potential	Determination of redox potential by electrometric measurement	E113
Water	F	Sulphate (as SO4)	Determination of sulphate by filtration & analysed by ion chromatography	E109
Water	UF	Sulphide	Determination of sulphide by distillation followed by colorimetry	E118
Water	F	SVOC	Determination of semi-volatile organic compounds by concentration through SPE cartridge, collection in dichloromethane followed by GC-MS	E106
Water	UF	Toluene Extractable Matter (TEM)	Gravimetrically determined through liquid:liquid extraction with toluene	E111
Water	UF	Total Organic Carbon (TOC)	Low heat with persulphate addition followed by IR detection	E110
Water	F	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 liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C35. C5 to C8 by headspace GC-MS	E104
Water	F	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 liquid:liquid extraction with hexane, fractionating with SPE followed by GC-FID for C8 to C44. C5 to C8 by headspace GC-MS	E104
Water	UF	VOCs	Determination of volatile organic compounds by headspace GC-MS	E101
Water	UF	VPH (C6-C8 & C8-C10)	Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID	E101

Key

F Filtered
UF Unfiltered

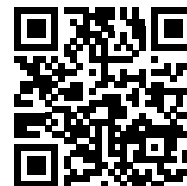
Parameter	Matrix Type	Suite Reference	Expanded Uncertainty Measurement	Unit
TOC	Soil	BS EN 12457	10.4	%
Loss on Ignition	Soil	BS EN 12457	16.9	%
BTEX	Soil	BS EN 12457	14.0	%
Sum of PCBs	Soil	BS EN 12457	21.1	%
Mineral Oil	Soil	BS EN 12457	9.0	%
Total PAH	Soil	BS EN 12457	17.9	%
pH	Soil	BS EN 12457	0.282	Units
Acid Neutralisation Capacity	Soil	BS EN 12457	18.0	%
Arsenic	Leachate	BS EN 12457	19.5	%
Barium	Leachate	BS EN 12457	12.2	%
Cadmium	Leachate	BS EN 12457	17.2	%
Chromium	Leachate	BS EN 12457	20.7	%
Copper	Leachate	BS EN 12457	14.1	%
Mercury	Leachate	BS EN 12457	16.7	%
Molybdenum	Leachate	BS EN 12457	13.3	%
Nickel	Leachate	BS EN 12457	14.0	%
Lead	Leachate	BS EN 12457	12.1	%
Antimony	Leachate	BS EN 12457	16.1	%
Selenium	Leachate	BS EN 12457	15.5	%
Zinc	Leachate	BS EN 12457	14.0	%
Chloride	Leachate	BS EN 12457	15.7	%
Fluoride	Leachate	BS EN 12457	19.1	%
Sulphate	Leachate	BS EN 12457	27.6	%
TDS	Leachate	BS EN 12457	10.0	%
Phenol Index	Leachate	BS EN 12457	12.9	%
DOC	Leachate	BS EN 12457	20.4	%
Clay Content	Soil	BS 3882: 2015	15.0	%
Silt Content	Soil	BS 3882: 2015	14.0	%
Sand Content	Soil	BS 3882: 2015	13.0	%
Loss on Ignition	Soil	BS 3882: 2015	16.9	%
pH	Soil	BS 3882: 2015	0.282	Units
Carbonate	Soil	BS 3882: 2015	12.0	%
Total Nitrogen	Soil	BS 3882: 2015	12.0	%
Phosphorus (Extractable)	Soil	BS 3882: 2015	24.0	%
Potassium (Extractable)	Soil	BS 3882: 2015	20.0	%
Magnesium (Extractable)	Soil	BS 3882: 2015	26.0	%
Zinc	Soil	BS 3882: 2015	19.8	%
Copper	Soil	BS 3882: 2015	23.2	%
Nickel	Soil	BS 3882: 2015	32.6	%
Available Sodium	Soil	BS 3882: 2015	23.0	%
Available Calcium	Soil	BS 3882: 2015	23.0	%
Electrical Conductivity	Soil	BS 3882: 2015	10.0	%

Appendix B – HazWasteOnline™ Assessment 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:

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



STVNM-VU4QV-NIZ72

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

Job name

John Crank Building (Former)

Description/Comments

Project

Site

Classified by

Name: **Megan Tait**
 Date: **24 Feb 2023 15:21 GMT**
 Telephone: **07738730704**
 Company: **Sweco UK Limited**
Second Floor, Quay 2
139 Fountainbridge
Edinburgh
EH3 9QG

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

22 Apr 2021

Next 3 year Refresher due by Apr 2024

Purpose of classification

2 - Material Characterisation

Address of the waste

Brunel University

Post Code **UB8 3PH**

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

University

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

Demolition

Description of the waste

Made ground

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	TP01	0.15	Non Hazardous		3
2	TP01[2]	0.75	Non Hazardous		6
3	TP01[3]	1.50	Non Hazardous		9
4	TP02	0.20	Non Hazardous		12
5	TP02[2]	0.50	Non Hazardous		15
6	TP03	0.20	Non Hazardous		18
7	TP04	0.15	Non Hazardous		21
8	TP04[2]	0.30	Non Hazardous		24
9	TP05	0.20	Non Hazardous		27
10	TP05[2]	0.50	Non Hazardous		30
11	TP05[3]	1.50	Non Hazardous		33
12	TP07	0.30	Non Hazardous		36
13	TP07[2]	0.80	Non Hazardous		39
14	TP07[3]	1.70	Non Hazardous		42

Related documents

#	Name	Description
1	Sweco Standard Soils February 2022	waste stream template used to create this Job

Report

Created by: Megan Tait

Created date: 24 Feb 2023 15:21 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	45
Appendix B: Rationale for selection of metal species	46
Appendix C: Version	47

Classification of sample: TP01

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

Sample details

Sample name:	LoW Code:
TP01	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.15 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
7.4%	
(no correction)	

Hazard properties

None identified

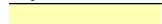
Determinands

Moisture content: 7.4% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				14 mg/kg	1.32	18.485 mg/kg	0.00185 %			
	033-003-00-0	215-481-4	1327-53-3								
2	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								
3	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								
4	chromium in chromium(III) compounds { chromium(III) oxide }				23 mg/kg	1.462	33.616 mg/kg	0.00336 %			
		215-160-9	1308-38-9								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<2 mg/kg	1.923	<3.846 mg/kg	<0.000385 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	copper { dicopper oxide; copper (I) oxide }				14 mg/kg	1.126	15.762 mg/kg	0.00158 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	58 mg/kg		58 mg/kg	0.0058 %			
	082-001-00-6										
8	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								
9	nickel { nickel sulfate }				13 mg/kg	2.637	34.277 mg/kg	0.00343 %			
	028-009-00-5	232-104-9	7786-81-4								
10	selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								
11	zinc { zinc sulphate }				224 mg/kg	2.469	553.122 mg/kg	0.0553 %			
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
12	TPH (C6 to C40) petroleum group				<60 mg/kg		<60 mg/kg	<0.006 %			<LOD
			TPH								
13	benzene				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
14	toluene				<5 mg/kg		<5 mg/kg	<0.0005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
15	ethylbenzene				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	xylene 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]		<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
18	pH PH				7.9 pH		7.9 pH	7.9 pH		
19	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20	acenaphthylene 205-917-1	208-96-8			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
21	acenaphthene 201-469-6	83-32-9			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	fluorene 201-695-5	86-73-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	phenanthrene 201-581-5	85-01-8			0.13 mg/kg		0.13 mg/kg	0.000013 %		
24	anthracene 204-371-1	120-12-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25	fluoranthene 205-912-4	206-44-0			0.45 mg/kg		0.45 mg/kg	0.000045 %		
26	pyrene 204-927-3	129-00-0			0.46 mg/kg		0.46 mg/kg	0.000046 %		
27	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.49 mg/kg		0.49 mg/kg	0.000049 %		
28	chrysene 601-048-00-0	205-923-4	218-01-9		0.35 mg/kg		0.35 mg/kg	0.000035 %		
29	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.73 mg/kg		0.73 mg/kg	0.000073 %		
30	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.25 mg/kg		0.25 mg/kg	0.000025 %		
31	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.8 mg/kg		0.8 mg/kg	0.00008 %		
32	indeno[123-cd]pyrene 205-893-2	193-39-5			0.45 mg/kg		0.45 mg/kg	0.000045 %		
33	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
34	benzo[ghi]perylene 205-883-8	191-24-2			0.38 mg/kg		0.38 mg/kg	0.000038 %		
35	Asbestos Fragments (Visible to Naked Eye). 12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5				<		<	<		ND
36	monohydric phenols P1186				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
Total:								0.0807 %		

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)
	Determinand defined by classifier (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: TP01[2]

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

Sample details

Sample name:	LoW Code:
TP01[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.75 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
7.7%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 7.7% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				14 mg/kg	1.32	18.485 mg/kg	0.00185 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide }				20 mg/kg	1.462	29.231 mg/kg	0.00292 %		
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<2 mg/kg	1.923	<3.846 mg/kg	<0.000385 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }				15 mg/kg	1.126	16.888 mg/kg	0.00169 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	24 mg/kg		24 mg/kg	0.0024 %		
	082-001-00-6									
8	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							
9	nickel { nickel sulfate }				32 mg/kg	2.637	84.374 mg/kg	0.00844 %		
	028-009-00-5	232-104-9	7786-81-4							
10	selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
11	zinc { zinc sulphate }				88 mg/kg	2.469	217.298 mg/kg	0.0217 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
12	TPH (C6 to C40) petroleum group				<60 mg/kg		<60 mg/kg	<0.006 %		<LOD
			TPH							
13	benzene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
14	toluene				<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
15	ethylbenzene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	xylene 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]		<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
17	 cyanides {  salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
18	 pH				8.3 pH		8.3 pH	8.3 pH			
19	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
20	 acenaphthylene	205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
21	 acenaphthene	201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
22	 fluorene	201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
23	 phenanthrene	201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
24	 anthracene	204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
25	 fluoranthene	205-912-4	206-44-0		0.22 mg/kg		0.22 mg/kg	0.000022 %			
26	 pyrene	204-927-3	129-00-0		0.19 mg/kg		0.19 mg/kg	0.000019 %			
27	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.17 mg/kg		0.17 mg/kg	0.000017 %			
28	chrysene 601-048-00-0	205-923-4	218-01-9		0.14 mg/kg		0.14 mg/kg	0.000014 %			
29	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.27 mg/kg		0.27 mg/kg	0.000027 %			
30	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
31	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.27 mg/kg		0.27 mg/kg	0.000027 %			
32	 indeno[123-cd]pyrene 205-893-2		193-39-5		0.12 mg/kg		0.12 mg/kg	0.000012 %			
33	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
34	 benzo[ghi]perylene 205-883-8		191-24-2		0.12 mg/kg		0.12 mg/kg	0.000012 %			
35	 Asbestos Fragments (Visible to Naked Eye). 12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5				<		<	<			ND
36	 monohydric phenols P1186				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
Total:									0.0481 %		

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)
	Determinand defined by classifier (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: TP01[3]

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

Sample details

Sample name:	LoW Code:
TP01[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
7.4%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 7.4% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				16 mg/kg	1.32	21.125 mg/kg	0.00211 %			
	033-003-00-0	215-481-4	1327-53-3								
2	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								
3	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								
4	chromium in chromium(III) compounds { chromium(III) oxide }				19 mg/kg	1.462	27.77 mg/kg	0.00278 %			
		215-160-9	1308-38-9								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<2 mg/kg	1.923	<3.846 mg/kg	<0.000385 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	copper { dicopper oxide; copper (I) oxide }				14 mg/kg	1.126	15.762 mg/kg	0.00158 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	8 mg/kg		8 mg/kg	0.0008 %			
	082-001-00-6										
8	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								
9	nickel { nickel sulfate }				31 mg/kg	2.637	81.737 mg/kg	0.00817 %			
	028-009-00-5	232-104-9	7786-81-4								
10	selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								
11	zinc { zinc sulphate }				25 mg/kg	2.469	61.732 mg/kg	0.00617 %			
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
12	TPH (C6 to C40) petroleum group		TPH		122 mg/kg		122 mg/kg	0.0122 %			
13	benzene				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
14	toluene				<5 mg/kg		<5 mg/kg	<0.0005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
15	ethylbenzene				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	xylene 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]		<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
18	pH PH				7.7 pH		7.7 pH	7.7 pH		
19	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20	acenaphthylene 205-917-1	208-96-8			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
21	acenaphthene 201-469-6	83-32-9			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	fluorene 201-695-5	86-73-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	phenanthrene 201-581-5	85-01-8			0.61 mg/kg		0.61 mg/kg	0.000061 %		
24	anthracene 204-371-1	120-12-7			0.19 mg/kg		0.19 mg/kg	0.000019 %		
25	fluoranthene 205-912-4	206-44-0			1.8 mg/kg		1.8 mg/kg	0.00018 %		
26	pyrene 204-927-3	129-00-0			1.96 mg/kg		1.96 mg/kg	0.000196 %		
27	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		1.48 mg/kg		1.48 mg/kg	0.000148 %		
28	chrysene 601-048-00-0	205-923-4	218-01-9		1.02 mg/kg		1.02 mg/kg	0.000102 %		
29	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		1.75 mg/kg		1.75 mg/kg	0.000175 %		
30	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.59 mg/kg		0.59 mg/kg	0.000059 %		
31	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		1.74 mg/kg		1.74 mg/kg	0.000174 %		
32	indeno[123-cd]pyrene 205-893-2	193-39-5			1 mg/kg		1 mg/kg	0.0001 %		
33	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		0.13 mg/kg		0.13 mg/kg	0.000013 %		
34	benzo[ghi]perylene 205-883-8	191-24-2			0.7 mg/kg		0.7 mg/kg	0.00007 %		
35	Asbestos Fragments (Visible to Naked Eye). 12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5				<		<	<		ND
36	monohydric phenols P1186				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
Total:								0.038 %		

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)
👤	Determinand defined by classifier (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 Not considered flammable at the recorded concentration in a soil matrix.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0122%)

Classification of sample: TP02

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

Sample details

Sample name:	LoW Code:
TP02	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:	
9.9%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 9.9% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				14 mg/kg	1.32	18.485 mg/kg	0.00185 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	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							
4	chromium in chromium(III) compounds { chromium(III) oxide }				18 mg/kg	1.462	26.308 mg/kg	0.00263 %		
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<2 mg/kg	1.923	<3.846 mg/kg	<0.000385 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }				18 mg/kg	1.126	20.266 mg/kg	0.00203 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	63 mg/kg		63 mg/kg	0.0063 %		
	082-001-00-6									
8	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							
9	nickel { nickel sulfate }				15 mg/kg	2.637	39.55 mg/kg	0.00396 %		
	028-009-00-5	232-104-9	7786-81-4							
10	selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
11	zinc { zinc sulphate }				87 mg/kg	2.469	214.829 mg/kg	0.0215 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
12	TPH (C6 to C40) petroleum group				478 mg/kg		478 mg/kg	0.0478 %		
			TPH							
13	benzene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
14	toluene				<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
15	ethylbenzene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	xylene 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]		<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
18	pH PH				8.6 pH		8.6 pH	8.6 pH		
19	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20	acenaphthylene 205-917-1	208-96-8			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
21	acenaphthene 201-469-6	83-32-9			0.13 mg/kg		0.13 mg/kg	0.000013 %		
22	fluorene 201-695-5	86-73-7			0.13 mg/kg		0.13 mg/kg	0.000013 %		
23	phenanthrene 201-581-5	85-01-8			1.24 mg/kg		1.24 mg/kg	0.000124 %		
24	anthracene 204-371-1	120-12-7			0.34 mg/kg		0.34 mg/kg	0.000034 %		
25	fluoranthene 205-912-4	206-44-0			2.27 mg/kg		2.27 mg/kg	0.000227 %		
26	pyrene 204-927-3	129-00-0			2.47 mg/kg		2.47 mg/kg	0.000247 %		
27	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		1.76 mg/kg		1.76 mg/kg	0.000176 %		
28	chrysene 601-048-00-0	205-923-4	218-01-9		0.99 mg/kg		0.99 mg/kg	0.000099 %		
29	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		1.53 mg/kg		1.53 mg/kg	0.000153 %		
30	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.49 mg/kg		0.49 mg/kg	0.000049 %		
31	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		1.5 mg/kg		1.5 mg/kg	0.00015 %		
32	indeno[123-cd]pyrene 205-893-2	193-39-5			0.83 mg/kg		0.83 mg/kg	0.000083 %		
33	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		0.16 mg/kg		0.16 mg/kg	0.000016 %		
34	benzo[ghi]perylene 205-883-8	191-24-2			0.6 mg/kg		0.6 mg/kg	0.00006 %		
35	Asbestos Fragments (Visible to Naked Eye). 12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5				<		<	<		ND
36	monohydric phenols P1186				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
Total:								0.0904 %		

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)
	Determinand defined by classifier (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 Not considered flammable at the recorded concentration in a soil matrix.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0478%)

Classification of sample: TP02[2]

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

Sample details

Sample name:	LoW Code:
TP02[2]	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)
12.5%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 12.5% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				11 mg/kg	1.32	14.524 mg/kg	0.00145 %			
	033-003-00-0	215-481-4	1327-53-3								
2	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								
3	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								
4	chromium in chromium(III) compounds { chromium(III) oxide }				18 mg/kg	1.462	26.308 mg/kg	0.00263 %			
		215-160-9	1308-38-9								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<2 mg/kg	1.923	<3.846 mg/kg	<0.000385 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	copper { dicopper oxide; copper (I) oxide }				30 mg/kg	1.126	33.777 mg/kg	0.00338 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	65 mg/kg		65 mg/kg	0.0065 %			
	082-001-00-6										
8	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								
9	nickel { nickel sulfate }				14 mg/kg	2.637	36.914 mg/kg	0.00369 %			
	028-009-00-5	232-104-9	7786-81-4								
10	selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								
11	zinc { zinc sulphate }				76 mg/kg	2.469	187.667 mg/kg	0.0188 %			
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
12	TPH (C6 to C40) petroleum group				74 mg/kg		74 mg/kg	0.0074 %			
			TPH								
13	benzene				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
14	toluene				<5 mg/kg		<5 mg/kg	<0.0005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
15	ethylbenzene				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	xylene 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]		<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
18	pH PH				9.4 pH		9.4 pH	9.4 pH		
19	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20	acenaphthylene 205-917-1	208-96-8			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
21	acenaphthene 201-469-6	83-32-9			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	fluorene 201-695-5	86-73-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	phenanthrene 201-581-5	85-01-8			0.53 mg/kg		0.53 mg/kg	0.000053 %		
24	anthracene 204-371-1	120-12-7			0.15 mg/kg		0.15 mg/kg	0.000015 %		
25	fluoranthene 205-912-4	206-44-0			1.69 mg/kg		1.69 mg/kg	0.000169 %		
26	pyrene 204-927-3	129-00-0			1.87 mg/kg		1.87 mg/kg	0.000187 %		
27	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		1.47 mg/kg		1.47 mg/kg	0.000147 %		
28	chrysene 601-048-00-0	205-923-4	218-01-9		0.83 mg/kg		0.83 mg/kg	0.000083 %		
29	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		1.31 mg/kg		1.31 mg/kg	0.000131 %		
30	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.42 mg/kg		0.42 mg/kg	0.000042 %		
31	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		1.28 mg/kg		1.28 mg/kg	0.000128 %		
32	indeno[123-cd]pyrene 205-893-2	193-39-5			0.89 mg/kg		0.89 mg/kg	0.000089 %		
33	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		0.15 mg/kg		0.15 mg/kg	0.000015 %		
34	benzo[ghi]perylene 205-883-8	191-24-2			0.62 mg/kg		0.62 mg/kg	0.000062 %		
35	Asbestos Fragments (Visible to Naked Eye). 12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5				<		<	<		ND
36	monohydric phenols P1186				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
Total:								0.0478 %		

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)
	Determinand defined by classifier (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 Not considered flammable at the recorded concentration in a soil matrix.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0074%)

Classification of sample: TP03

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

Sample details

Sample name:	LoW Code:	
TP03	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:		
7.7%		
(no correction)		

Hazard properties

None identified

Determinands

Moisture content: 7.7% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				8 mg/kg	1.32	10.563 mg/kg	0.00106 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide }				15 mg/kg	1.462	21.923 mg/kg	0.00219 %		
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<2 mg/kg	1.923	<3.846 mg/kg	<0.000385 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }				16 mg/kg	1.126	18.014 mg/kg	0.0018 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	44 mg/kg		44 mg/kg	0.0044 %		
	082-001-00-6									
8	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							
9	nickel { nickel sulfate }				11 mg/kg	2.637	29.004 mg/kg	0.0029 %		
	028-009-00-5	232-104-9	7786-81-4							
10	selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
11	zinc { zinc sulphate }				48 mg/kg	2.469	118.526 mg/kg	0.0119 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
12	TPH (C6 to C40) petroleum group				386 mg/kg		386 mg/kg	0.0386 %		
			TPH							
13	benzene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
14	toluene				<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
15	ethylbenzene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	xylene 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]		<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
17	 cyanides {  salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
18	 pH				8.4 pH		8.4 pH	8.4 pH			
19	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
20	 acenaphthylene	205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
21	 acenaphthene	201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
22	 fluorene	201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
23	 phenanthrene	201-581-5	85-01-8		0.34 mg/kg		0.34 mg/kg	0.000034 %			
24	 anthracene	204-371-1	120-12-7		0.12 mg/kg		0.12 mg/kg	0.000012 %			
25	 fluoranthene	205-912-4	206-44-0		1.15 mg/kg		1.15 mg/kg	0.000115 %			
26	 pyrene	204-927-3	129-00-0		1.22 mg/kg		1.22 mg/kg	0.000122 %			
27	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		1.07 mg/kg		1.07 mg/kg	0.000107 %			
28	chrysene 601-048-00-0	205-923-4	218-01-9		0.64 mg/kg		0.64 mg/kg	0.000064 %			
29	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		1.08 mg/kg		1.08 mg/kg	0.000108 %			
30	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.34 mg/kg		0.34 mg/kg	0.000034 %			
31	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		1.17 mg/kg		1.17 mg/kg	0.000117 %			
32	 indeno[123-cd]pyrene	205-893-2	193-39-5		0.73 mg/kg		0.73 mg/kg	0.000073 %			
33	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
34	 benzo[ghi]perylene	205-883-8	191-24-2		0.49 mg/kg		0.49 mg/kg	0.000049 %			
35	 Asbestos Fragments (Visible to Naked Eye).		12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<		<	<			ND
36	 monohydric phenols		P1186		<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
Total:									0.0666 %		

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)
	Determinand defined by classifier (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 Not considered flammable at the recorded concentration in a soil matrix.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0386%)

Classification of sample: TP04

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

Sample details

Sample name:	LoW Code:	
TP04	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)
0.15 m		
Moisture content:		
11.7%		
(no correction)		

Hazard properties

None identified

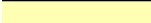
Determinands

Moisture content: 11.7% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				8 mg/kg	1.32	10.563 mg/kg	0.00106 %			
	033-003-00-0	215-481-4	1327-53-3								
2	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								
3	cadmium { cadmium oxide }				0.6 mg/kg	1.142	0.685 mg/kg	0.0000685 %			
	048-002-00-0	215-146-2	1306-19-0								
4	chromium in chromium(III) compounds { chromium(III) oxide }				14 mg/kg	1.462	20.462 mg/kg	0.00205 %			
		215-160-9	1308-38-9								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<2 mg/kg	1.923	<3.846 mg/kg	<0.000385 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	copper { dicopper oxide; copper (I) oxide }				16 mg/kg	1.126	18.014 mg/kg	0.0018 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	65 mg/kg		65 mg/kg	0.0065 %			
	082-001-00-6										
8	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								
9	nickel { nickel sulfate }				10 mg/kg	2.637	26.367 mg/kg	0.00264 %			
	028-009-00-5	232-104-9	7786-81-4								
10	selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								
11	zinc { zinc sulphate }				118 mg/kg	2.469	291.377 mg/kg	0.0291 %			
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
12	TPH (C6 to C40) petroleum group				<60 mg/kg		<60 mg/kg	<0.006 %			<LOD
			TPH								
13	benzene				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
14	toluene				<5 mg/kg		<5 mg/kg	<0.0005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
15	ethylbenzene				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	xylene 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]		<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
18	pH PH				8.1 pH		8.1 pH	8.1 pH		
19	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20	acenaphthylene 205-917-1	208-96-8			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
21	acenaphthene 201-469-6	83-32-9			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	fluorene 201-695-5	86-73-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	phenanthrene 201-581-5	85-01-8			0.36 mg/kg		0.36 mg/kg	0.000036 %		
24	anthracene 204-371-1	120-12-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25	fluoranthene 205-912-4	206-44-0			0.96 mg/kg		0.96 mg/kg	0.000096 %		
26	pyrene 204-927-3	129-00-0			0.97 mg/kg		0.97 mg/kg	0.000097 %		
27	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		1.02 mg/kg		1.02 mg/kg	0.000102 %		
28	chrysene 601-048-00-0	205-923-4	218-01-9		0.55 mg/kg		0.55 mg/kg	0.000055 %		
29	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		1.04 mg/kg		1.04 mg/kg	0.000104 %		
30	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.33 mg/kg		0.33 mg/kg	0.000033 %		
31	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		1.08 mg/kg		1.08 mg/kg	0.000108 %		
32	indeno[123-cd]pyrene 205-893-2	193-39-5			0.6 mg/kg		0.6 mg/kg	0.00006 %		
33	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
34	benzo[ghi]perylene 205-883-8	191-24-2			0.43 mg/kg		0.43 mg/kg	0.000043 %		
35	Asbestos Fragments (Visible to Naked Eye). 12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5				<		<	<		ND
36	monohydric phenols P1186				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
Total:								0.0529 %		

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)
	Determinand defined by classifier (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: TP04[2]

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

Sample details

Sample name:	LoW Code:
TP04[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.30 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11.3%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **11.3% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				14 mg/kg	1.32	18.485 mg/kg	0.00185 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	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							
4	chromium in chromium(III) compounds { chromium(III) oxide }				21 mg/kg	1.462	30.693 mg/kg	0.00307 %		
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<2 mg/kg	1.923	<3.846 mg/kg	<0.000385 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }				17 mg/kg	1.126	19.14 mg/kg	0.00191 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	56 mg/kg		56 mg/kg	0.0056 %		
	082-001-00-6									
8	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							
9	nickel { nickel sulfate }				24 mg/kg	2.637	63.28 mg/kg	0.00633 %		
	028-009-00-5	232-104-9	7786-81-4							
10	selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
11	zinc { zinc sulphate }				54 mg/kg	2.469	133.342 mg/kg	0.0133 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
12	TPH (C6 to C40) petroleum group				<60 mg/kg		<60 mg/kg	<0.006 %		<LOD
			TPH							
13	benzene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
14	toluene				<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
15	ethylbenzene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	xylene 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]		<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
18	pH				8.2 pH		8.2 pH	8.2 pH			
19	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
20	acenaphthylene 205-917-1	208-96-8			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
21	acenaphthene 201-469-6	83-32-9			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
22	fluorene 201-695-5	86-73-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
23	phenanthrene 201-581-5	85-01-8			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
24	anthracene 204-371-1	120-12-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
25	fluoranthene 205-912-4	206-44-0			0.25 mg/kg		0.25 mg/kg	0.000025 %			
26	pyrene 204-927-3	129-00-0			0.23 mg/kg		0.23 mg/kg	0.000023 %			
27	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.23 mg/kg		0.23 mg/kg	0.000023 %			
28	chrysene 601-048-00-0	205-923-4	218-01-9		0.15 mg/kg		0.15 mg/kg	0.000015 %			
29	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.27 mg/kg		0.27 mg/kg	0.000027 %			
30	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
31	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.25 mg/kg		0.25 mg/kg	0.000025 %			
32	indeno[123-cd]pyrene 205-893-2	193-39-5			0.14 mg/kg		0.14 mg/kg	0.000014 %			
33	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
34	benzo[ghi]perylene 205-883-8	191-24-2			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
35	Asbestos Fragments (Visible to Naked Eye). 12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5				<		<	<			ND
36	monohydric phenols P1186				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
Total:									0.0412 %		

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)
	Determinand defined by classifier (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: TP05

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

Sample details

Sample name:	LoW Code:
TP05	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
9.9%	
(no correction)	

Hazard properties

None identified

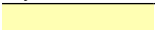
Determinands

Moisture content: 9.9% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				9 mg/kg	1.32	11.883 mg/kg	0.00119 %			
	033-003-00-0	215-481-4	1327-53-3								
2	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								
3	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								
4	chromium in chromium(III) compounds { chromium(III) oxide }				15 mg/kg	1.462	21.923 mg/kg	0.00219 %			
		215-160-9	1308-38-9								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<2 mg/kg	1.923	<3.846 mg/kg	<0.000385 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	copper { dicopper oxide; copper (I) oxide }				18 mg/kg	1.126	20.266 mg/kg	0.00203 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	45 mg/kg		45 mg/kg	0.0045 %			
	082-001-00-6										
8	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								
9	nickel { nickel sulfate }				12 mg/kg	2.637	31.64 mg/kg	0.00316 %			
	028-009-00-5	232-104-9	7786-81-4								
10	selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								
11	zinc { zinc sulphate }				66 mg/kg	2.469	162.974 mg/kg	0.0163 %			
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
12	TPH (C6 to C40) petroleum group				<60 mg/kg		<60 mg/kg	<0.006 %			<LOD
			TPH								
13	benzene				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
14	toluene				<5 mg/kg		<5 mg/kg	<0.0005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
15	ethylbenzene				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	xylene 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]		<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
18	pH PH				9.6 pH		9.6 pH	9.6 pH		
19	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20	acenaphthylene 205-917-1	208-96-8			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
21	acenaphthene 201-469-6	83-32-9			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	fluorene 201-695-5	86-73-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	phenanthrene 201-581-5	85-01-8			0.16 mg/kg		0.16 mg/kg	0.000016 %		
24	anthracene 204-371-1	120-12-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25	fluoranthene 205-912-4	206-44-0			0.54 mg/kg		0.54 mg/kg	0.000054 %		
26	pyrene 204-927-3	129-00-0			0.64 mg/kg		0.64 mg/kg	0.000064 %		
27	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.58 mg/kg		0.58 mg/kg	0.000058 %		
28	chrysene 601-048-00-0	205-923-4	218-01-9		0.44 mg/kg		0.44 mg/kg	0.000044 %		
29	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.82 mg/kg		0.82 mg/kg	0.000082 %		
30	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.28 mg/kg		0.28 mg/kg	0.000028 %		
31	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.81 mg/kg		0.81 mg/kg	0.000081 %		
32	indeno[123-cd]pyrene 205-893-2	193-39-5			0.48 mg/kg		0.48 mg/kg	0.000048 %		
33	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
34	benzo[ghi]perylene 205-883-8	191-24-2			0.33 mg/kg		0.33 mg/kg	0.000033 %		
35	Asbestos Fragments (Visible to Naked Eye). 12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5				<		<	<		ND
36	monohydric phenols P1186				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
Total:								0.0388 %		

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)
	Determinand defined by classifier (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: TP05[2]

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

Sample details

Sample name:	LoW Code:
TP05[2]	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)
7.6%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 7.6% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				10 mg/kg	1.32	13.203 mg/kg	0.00132 %			
	033-003-00-0	215-481-4	1327-53-3								
2	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								
3	cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %			
	048-002-00-0	215-146-2	1306-19-0								
4	chromium in chromium(III) compounds { chromium(III) oxide }				16 mg/kg	1.462	23.385 mg/kg	0.00234 %			
		215-160-9	1308-38-9								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<2 mg/kg	1.923	<3.846 mg/kg	<0.000385 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	copper { dicopper oxide; copper (I) oxide }				12 mg/kg	1.126	13.511 mg/kg	0.00135 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	28 mg/kg		28 mg/kg	0.0028 %			
	082-001-00-6										
8	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								
9	nickel { nickel sulfate }				13 mg/kg	2.637	34.277 mg/kg	0.00343 %			
	028-009-00-5	232-104-9	7786-81-4								
10	selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								
11	zinc { zinc sulphate }				53 mg/kg	2.469	130.873 mg/kg	0.0131 %			
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
12	TPH (C6 to C40) petroleum group				<60 mg/kg		<60 mg/kg	<0.006 %			<LOD
			TPH								
13	benzene				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
14	toluene				<5 mg/kg		<5 mg/kg	<0.0005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
15	ethylbenzene				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	xylene 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]		<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
17	 cyanides {  salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
18	 pH				8.5 pH		8.5 pH	8.5 pH			
19	naphthalene 601-052-00-2	202-049-5	91-20-3		0.14 mg/kg		0.14 mg/kg	0.000014 %			
20	 acenaphthylene	205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
21	 acenaphthene	201-469-6	83-32-9		0.13 mg/kg		0.13 mg/kg	0.000013 %			
22	 fluorene	201-695-5	86-73-7		0.14 mg/kg		0.14 mg/kg	0.000014 %			
23	 phenanthrene	201-581-5	85-01-8		1.08 mg/kg		1.08 mg/kg	0.000108 %			
24	 anthracene	204-371-1	120-12-7		0.28 mg/kg		0.28 mg/kg	0.000028 %			
25	 fluoranthene	205-912-4	206-44-0		1.46 mg/kg		1.46 mg/kg	0.000146 %			
26	 pyrene	204-927-3	129-00-0		1.38 mg/kg		1.38 mg/kg	0.000138 %			
27	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		1.09 mg/kg		1.09 mg/kg	0.000109 %			
28	chrysene 601-048-00-0	205-923-4	218-01-9		0.77 mg/kg		0.77 mg/kg	0.000077 %			
29	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		1.27 mg/kg		1.27 mg/kg	0.000127 %			
30	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.48 mg/kg		0.48 mg/kg	0.000048 %			
31	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		1.29 mg/kg		1.29 mg/kg	0.000129 %			
32	 indeno[123-cd]pyrene	205-893-2	193-39-5		0.6 mg/kg		0.6 mg/kg	0.00006 %			
33	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		0.11 mg/kg		0.11 mg/kg	0.000011 %			
34	 benzo[ghi]perylene	205-883-8	191-24-2		0.42 mg/kg		0.42 mg/kg	0.000042 %			
35	 Asbestos Fragments (Visible to Naked Eye).		12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<		<	<			ND
36	 monohydric phenols		P1186		<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
Total:									0.0343 %		

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)
	Determinand defined by classifier (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: TP05[3]

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

Sample details

Sample name:	LoW Code:
TP05[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
12.8%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 12.8% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				21 mg/kg	1.32	27.727 mg/kg	0.00277 %			
	033-003-00-0	215-481-4	1327-53-3								
2	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								
3	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								
4	chromium in chromium(III) compounds { chromium(III) oxide }				18 mg/kg	1.462	26.308 mg/kg	0.00263 %			
		215-160-9	1308-38-9								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<2 mg/kg	1.923	<3.846 mg/kg	<0.000385 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	copper { dicopper oxide; copper (I) oxide }				16 mg/kg	1.126	18.014 mg/kg	0.0018 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	21 mg/kg		21 mg/kg	0.0021 %			
	082-001-00-6										
8	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								
9	nickel { nickel sulfate }				31 mg/kg	2.637	81.737 mg/kg	0.00817 %			
	028-009-00-5	232-104-9	7786-81-4								
10	selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								
11	zinc { zinc sulphate }				38 mg/kg	2.469	93.833 mg/kg	0.00938 %			
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
12	TPH (C6 to C40) petroleum group				<60 mg/kg		<60 mg/kg	<0.006 %			<LOD
			TPH								
13	benzene				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
14	toluene				<5 mg/kg		<5 mg/kg	<0.0005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
15	ethylbenzene				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	xylene 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]		<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
18	pH PH				8.4 pH		8.4 pH	8.4 pH		
19	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20	acenaphthylene 205-917-1	208-96-8			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
21	acenaphthene 201-469-6	83-32-9			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	fluorene 201-695-5	86-73-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	phenanthrene 201-581-5	85-01-8			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24	anthracene 204-371-1	120-12-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25	fluoranthene 205-912-4	206-44-0			0.18 mg/kg		0.18 mg/kg	0.000018 %		
26	pyrene 204-927-3	129-00-0			0.16 mg/kg		0.16 mg/kg	0.000016 %		
27	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.11 mg/kg		0.11 mg/kg	0.000011 %		
28	chrysene 601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
29	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.15 mg/kg		0.15 mg/kg	0.000015 %		
30	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
31	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.16 mg/kg		0.16 mg/kg	0.000016 %		
32	indeno[123-cd]pyrene 205-893-2	193-39-5			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
33	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
34	benzo[ghi]perylene 205-883-8	191-24-2			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
35	Asbestos Fragments (Visible to Naked Eye). 12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5				<		<	<		ND
36	monohydric phenols P1186				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
Total:								0.0359 %		

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)
	Determinand defined by classifier (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: TP07

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

Sample details

Sample name:	LoW Code:
TP07	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.30 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11.3%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **11.3% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	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							
4	chromium in chromium(III) compounds { chromium(III) oxide }				19 mg/kg	1.462	27.77 mg/kg	0.00278 %		
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<2 mg/kg	1.923	<3.846 mg/kg	<0.000385 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }				19 mg/kg	1.126	21.392 mg/kg	0.00214 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	67 mg/kg		67 mg/kg	0.0067 %		
	082-001-00-6									
8	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							
9	nickel { nickel sulfate }				14 mg/kg	2.637	36.914 mg/kg	0.00369 %		
	028-009-00-5	232-104-9	7786-81-4							
10	selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
11	zinc { zinc sulphate }				79 mg/kg	2.469	195.074 mg/kg	0.0195 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
12	TPH (C6 to C40) petroleum group				<60 mg/kg		<60 mg/kg	<0.006 %		<LOD
			TPH							
13	benzene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
14	toluene				<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
15	ethylbenzene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	xylene 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]		<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
17	 cyanides {  salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
18	 pH				9.2 pH		9.2 pH	9.2 pH			
19	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
20	 acenaphthylene	205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
21	 acenaphthene	201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
22	 fluorene	201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
23	 phenanthrene	201-581-5	85-01-8		0.96 mg/kg		0.96 mg/kg	0.000096 %			
24	 anthracene	204-371-1	120-12-7		0.26 mg/kg		0.26 mg/kg	0.000026 %			
25	 fluoranthene	205-912-4	206-44-0		2.36 mg/kg		2.36 mg/kg	0.000236 %			
26	 pyrene	204-927-3	129-00-0		2.28 mg/kg		2.28 mg/kg	0.000228 %			
27	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		1.97 mg/kg		1.97 mg/kg	0.000197 %			
28	chrysene 601-048-00-0	205-923-4	218-01-9		1.52 mg/kg		1.52 mg/kg	0.000152 %			
29	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		2.95 mg/kg		2.95 mg/kg	0.000295 %			
30	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.97 mg/kg		0.97 mg/kg	0.000097 %			
31	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		2.76 mg/kg		2.76 mg/kg	0.000276 %			
32	 indeno[123-cd]pyrene	205-893-2	193-39-5		1.36 mg/kg		1.36 mg/kg	0.000136 %			
33	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		0.21 mg/kg		0.21 mg/kg	0.000021 %			
34	 benzo[ghi]perylene	205-883-8	191-24-2		0.96 mg/kg		0.96 mg/kg	0.000096 %			
35	 Asbestos Fragments (Visible to Naked Eye).		12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5		<		<	<			ND
36	 monohydric phenols		P1186		<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
Total:									0.0472 %		

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)
	Determinand defined by classifier (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: TP07[2]

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

Sample details

Sample name:	LoW Code:
TP07[2]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.80 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
9.4%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 9.4% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				21 mg/kg	1.32	27.727 mg/kg	0.00277 %			
	033-003-00-0	215-481-4	1327-53-3								
2	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								
3	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								
4	chromium in chromium(III) compounds { chromium(III) oxide }				25 mg/kg	1.462	36.539 mg/kg	0.00365 %			
		215-160-9	1308-38-9								
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<2 mg/kg	1.923	<3.846 mg/kg	<0.000385 %			<LOD
	024-001-00-0	215-607-8	1333-82-0								
6	copper { dicopper oxide; copper (I) oxide }				16 mg/kg	1.126	18.014 mg/kg	0.0018 %			
	029-002-00-X	215-270-7	1317-39-1								
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	18 mg/kg		18 mg/kg	0.0018 %			
	082-001-00-6										
8	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								
9	nickel { nickel sulfate }				41 mg/kg	2.637	108.104 mg/kg	0.0108 %			
	028-009-00-5	232-104-9	7786-81-4								
10	selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %			<LOD
	028-031-00-5	239-125-2	15060-62-5								
11	zinc { zinc sulphate }				36 mg/kg	2.469	88.895 mg/kg	0.00889 %			
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]								
12	TPH (C6 to C40) petroleum group				<60 mg/kg		<60 mg/kg	<0.006 %			<LOD
			TPH								
13	benzene				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
14	toluene				<5 mg/kg		<5 mg/kg	<0.0005 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
15	ethylbenzene				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
	601-023-00-4	202-849-4	100-41-4								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	xylene 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]		<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
18	pH PH				8.3 pH		8.3 pH	8.3 pH		
19	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20	acenaphthylene 205-917-1	208-96-8			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
21	acenaphthene 201-469-6	83-32-9			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	fluorene 201-695-5	86-73-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	phenanthrene 201-581-5	85-01-8			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24	anthracene 204-371-1	120-12-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25	fluoranthene 205-912-4	206-44-0			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26	pyrene 204-927-3	129-00-0			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
27	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
28	chrysene 601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
29	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
30	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
31	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
32	indeno[123-cd]pyrene 205-893-2	193-39-5			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
33	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
34	benzo[ghi]perylene 205-883-8	191-24-2			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
35	Asbestos Fragments (Visible to Naked Eye). 12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5				<		<	<		ND
36	monohydric phenols P1186				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
Total:								0.0388 %		

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)
	Determinand defined by classifier (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: TP07[3]

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

Sample details

Sample name:	LoW Code:
TP07[3]	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.70 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13.3%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **13.3% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				16 mg/kg	1.32	21.125 mg/kg	0.00211 %		
	033-003-00-0	215-481-4	1327-53-3							
2	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							
3	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							
4	chromium in chromium(III) compounds { chromium(III) oxide }				23 mg/kg	1.462	33.616 mg/kg	0.00336 %		
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<2 mg/kg	1.923	<3.846 mg/kg	<0.000385 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }				18 mg/kg	1.126	20.266 mg/kg	0.00203 %		
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead compounds with the exception of those specified elsewhere in this Annex (worst case) }			1	15 mg/kg		15 mg/kg	0.0015 %		
	082-001-00-6									
8	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							
9	nickel { nickel sulfate }				36 mg/kg	2.637	94.921 mg/kg	0.00949 %		
	028-009-00-5	232-104-9	7786-81-4							
10	selenium { nickel selenate }				<2 mg/kg	2.554	<5.108 mg/kg	<0.000511 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
11	zinc { zinc sulphate }				47 mg/kg	2.469	116.057 mg/kg	0.0116 %		
	030-006-00-9	231-793-3 [1] 231-793-3 [2]	7446-19-7 [1] 7733-02-0 [2]							
12	TPH (C6 to C40) petroleum group				<60 mg/kg		<60 mg/kg	<0.006 %		<LOD
			TPH							
13	benzene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
14	toluene				<5 mg/kg		<5 mg/kg	<0.0005 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
15	ethylbenzene				<2 mg/kg		<2 mg/kg	<0.0002 %		<LOD
	601-023-00-4	202-849-4	100-41-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
16	xylene 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]		<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
17	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex } 006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %			<LOD
18	pH				7.9 pH		7.9 pH	7.9 pH			
19	naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
20	acenaphthylene 205-917-1	208-96-8			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
21	acenaphthene 201-469-6	83-32-9			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
22	fluorene 201-695-5	86-73-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
23	phenanthrene 201-581-5	85-01-8			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
24	anthracene 204-371-1	120-12-7			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
25	fluoranthene 205-912-4	206-44-0			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
26	pyrene 204-927-3	129-00-0			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
27	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
28	chrysene 601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
29	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
30	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
31	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
32	indeno[123-cd]pyrene 205-893-2	193-39-5			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
33	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
34	benzo[ghi]perylene 205-883-8	191-24-2			<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
35	Asbestos Fragments (Visible to Naked Eye). 12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5				<		<	<			ND
36	monohydric phenols P1186				<2 mg/kg		<2 mg/kg	<0.0002 %			<LOD
Total:									0.0391 %		

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)
	Determinand defined by classifier (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

Appendix A: Classifier defined and non GB MCL determinands

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

Description/Comments: Data from ECHA's C&L inventory database
Data source: <https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806>
Data source date: 30 Apr 2020
Hazard Statements: Acute Tox. 4; H302 , Skin Sens. 1; H317 , Eye Irrit. 2; H319

• **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

 Asbestos Fragments (Visible to Naked Eye). (CAS Number: 12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5)

Description/Comments:
Data source: [Regulation 1272/2008/EC - Classification, labelling and packaging of substances and mixtures. \(CLP\)](#)
Data source date: 02 Aug 2022
Hazard Statements: [Carc. 1A; H350 , STOT RE 1; H372](#)

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

Description/Comments: Combined hazards statements from harmonised entries in CLP for phenol, cresols and xlenols (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 E conc. < 3 % , Eye Irrit. 2; H319 1 E conc. < 3 % , Aquatic Chronic 2; H411

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.

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}

Reasonable case species based on hazard statements/molecular weight.

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

Worst case CLP species based on hazard statements/molecular weight.

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)}

No hexavalent chromium detected. Reasonable case species based on hazard statements.

mercury {mercury dichloride}

Worst case CLP species based on hazard statements/molecular weight

nickel {nickel sulfate}

Reasonable case CLP species based on hazard statements/molecular weight.

selenium {nickel selenate}

Worst case CLP species based on hazard statements/molecular weight

zinc {zinc sulphate}

No hexavalent chromium present. Reasonable case CLP species based on hazard statements/molecular weight.

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]

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2023.51.5529.10230 (20 Feb 2023)

HazWasteOnline Database: 2023.51.5529.10230 (20 Feb 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