

Appendix D

Certificates of Analysis – Water



Final Report

Report No.: 19-25737-1

Initial Date of Issue: 05-Aug-2019

Client: LK Consult

Client Address: Unit 29 Eton Business Park
Eton Hill Road
Radcliffe
Manchester
Lancashire
M26 2ZS

Contact(s): Chris Hughes
Contaminated Land

Project: LKC 19 1314 - Barns Lane, Dunham
Massey

Quotation No.: **Date Received:** 01-Aug-2019

Order No.: 717132 **Date Instructed:** 01-Aug-2019

No. of Samples: 4

Turnaround (Wkdays): 3 **Results Due:** 05-Aug-2019

Date Approved: 05-Aug-2019

Approved By:



Details: Amy Parekh-Pross, Technical Projects
Manager

Project: LKC 19 1314 - Barns Lane, Dunham Massey

Client: LK Consult	Chemtest Job No.:				19-25737	19-25737	19-25737	19-25737
Quotation No.:	Chemtest Sample ID.:				866463	866464	866465	866466
	Client Sample ID.:				WS103	WS104	WS107f	WS108
	Sample Type:				WATER	WATER	WATER	WATER
	Date Sampled:				31-Jul-2019	31-Jul-2019	31-Jul-2019	31-Jul-2019
Determinand	Accred.	SOP	Units	LOD				
pH	U	1010		N/A	8.4	8.6	8.7	8.6
Sulphate	U	1220	mg/l	1.0	90	33	80	74
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Cyanide (Free)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050	< 0.050
Calcium	U	1415	mg/l	5.0	270	200	110	160
Total Hardness as CaCO3	U	1270	mg/l	15	900	570	300	440
Arsenic (Dissolved)	U	1450	µg/l	1.0	5.2	2.6	4.0	4.0
Boron (Dissolved)	U	1450	µg/l	20	490	89	100	150
Cadmium (Dissolved)	U	1450	µg/l	0.080	< 0.080	< 0.080	< 0.080	< 0.080
Chromium (Dissolved)	U	1450	µg/l	1.0	4.1	1.9	< 1.0	3.3
Copper (Dissolved)	U	1450	µg/l	1.0	1.3	< 1.0	< 1.0	< 1.0
Nickel (Dissolved)	U	1450	µg/l	1.0	23	9.7	5.9	3.7
Lead (Dissolved)	U	1450	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Selenium (Dissolved)	U	1450	µg/l	1.0	6.7	2.3	5.1	2.0
Vanadium (Dissolved)	U	1450	µg/l	1.0	2.3	< 1.0	1.2	1.5
Zinc (Dissolved)	U	1450	µg/l	1.0	11	13	3.0	8.0
Mercury Low Level	U	1460	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20
Dissolved Organic Carbon	U	1610	mg/l	2.0	57	21	23	100
Fuel Type	N	1670		N/A	N/A	W.Diesel	N/A	N/A
Aliphatic TPH >C5-C6	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	30	< 0.10	< 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	180	< 0.10	< 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	630	< 0.10	< 0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	700	< 0.10	< 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	490	< 0.10	< 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	2000	< 5.0	< 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.10	< 0.10	38	< 0.10	< 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.10	< 0.10	150	< 0.10	< 0.10
Aromatic TPH >C12-C16	N	1675	µg/l	0.10	< 0.10	470	< 0.10	< 0.10
Aromatic TPH >C16-C21	N	1675	µg/l	0.10	< 0.10	160	< 0.10	< 0.10
Aromatic TPH >C21-C35	N	1675	µg/l	0.10	< 0.10	170	< 0.10	< 0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Aromatic Hydrocarbons	N	1675	µg/l	5.0	< 5.0	980	< 5.0	< 5.0
Total Petroleum Hydrocarbons	N	1675	µg/l	10	< 10	3000	< 10	< 10
Dichlorodifluoromethane	U	1760	µg/l	1.0		< 1.0		

Project: LKC 19 1314 - Barns Lane, Dunham Massey

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	Client Sample ID.:				WS103	WS104	WS107f	WS108
	Sample Type:				WATER	WATER	WATER	WATER
	Date Sampled:				31-Jul-2019	31-Jul-2019	31-Jul-2019	31-Jul-2019
Determinand	Accred.	SOP	Units	LOD				
Chloromethane	U	1760	µg/l	1.0		< 1.0		
Vinyl Chloride	N	1760	µg/l	1.0		< 1.0		
Bromomethane	U	1760	µg/l	5.0		< 5.0		
Chloroethane	U	1760	µg/l	2.0		< 2.0		
Trichlorofluoromethane	U	1760	µg/l	1.0		< 1.0		
1,1-Dichloroethene	U	1760	µg/l	1.0		< 1.0		
Trans 1,2-Dichloroethene	U	1760	µg/l	1.0		< 1.0		
1,1-Dichloroethane	U	1760	µg/l	1.0		< 1.0		
cis 1,2-Dichloroethene	U	1760	µg/l	1.0		< 1.0		
Bromochloromethane	U	1760	µg/l	5.0		< 5.0		
Trichloromethane	U	1760	µg/l	1.0		< 1.0		
1,1,1-Trichloroethane	U	1760	µg/l	1.0		< 1.0		
Tetrachloromethane	U	1760	µg/l	1.0		< 1.0		
1,1-Dichloropropene	U	1760	µg/l	1.0		< 1.0		
Benzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	U	1760	µg/l	2.0		< 2.0		
Trichloroethene	N	1760	µg/l	1.0		< 1.0		
1,2-Dichloropropane	U	1760	µg/l	1.0		< 1.0		
Dibromomethane	U	1760	µg/l	10		< 10		
Bromodichloromethane	U	1760	µg/l	5.0		< 5.0		
cis-1,3-Dichloropropene	N	1760	µg/l	10		< 10		
Toluene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	1760	µg/l	10		< 10		
1,1,2-Trichloroethane	U	1760	µg/l	10		< 10		
Tetrachloroethene	U	1760	µg/l	1.0		< 1.0		
1,3-Dichloropropane	U	1760	µg/l	2.0		< 2.0		
Dibromochloromethane	U	1760	µg/l	10		< 10		
1,2-Dibromoethane	U	1760	µg/l	5.0		< 5.0		
Chlorobenzene	N	1760	µg/l	1.0		< 1.0		
1,1,1,2-Tetrachloroethane	U	1760	µg/l	2.0		< 2.0		
Ethylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	U	1760	µg/l	1.0		< 1.0		
Tribromomethane	U	1760	µg/l	1.0		< 1.0		
Isopropylbenzene	U	1760	µg/l	1.0		< 1.0		
Bromobenzene	U	1760	µg/l	1.0		< 1.0		
1,2,3-Trichloropropane	N	1760	µg/l	50		< 50		
N-Propylbenzene	U	1760	µg/l	1.0		< 1.0		
2-Chlorotoluene	U	1760	µg/l	1.0		< 1.0		

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	Sample Type:				WATER	WATER	WATER	WATER
	Date Sampled:				31-Jul-2019	31-Jul-2019	31-Jul-2019	31-Jul-2019
Determinand	Accred.	SOP	Units	LOD				
1,3,5-Trimethylbenzene	U	1760	µg/l	1.0		< 1.0		
4-Chlorotoluene	U	1760	µg/l	1.0		< 1.0		
Tert-Butylbenzene	U	1760	µg/l	1.0		< 1.0		
1,2,4-Trimethylbenzene	U	1760	µg/l	1.0		< 1.0		
Sec-Butylbenzene	U	1760	µg/l	1.0		< 1.0		
1,3-Dichlorobenzene	N	1760	µg/l	1.0		< 1.0		
4-Isopropyltoluene	U	1760	µg/l	1.0		< 1.0		
1,4-Dichlorobenzene	U	1760	µg/l	1.0		< 1.0		
N-Butylbenzene	U	1760	µg/l	1.0		< 1.0		
1,2-Dichlorobenzene	U	1760	µg/l	1.0		< 1.0		
1,2-Dibromo-3-Chloropropane	U	1760	µg/l	50		< 50		
1,2,4-Trichlorobenzene	U	1760	µg/l	1.0		< 1.0		
Hexachlorobutadiene	U	1760	µg/l	1.0		< 1.0		
1,2,3-Trichlorobenzene	U	1760	µg/l	2.0		< 2.0		
Carbon Disulphide	N	1760	µg/l	2.0		< 2.0		
Methyl Tert-Butyl Ether	N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Nitrosodimethylamine	N	1790	µg/l	0.50		< 0.50		
Phenol	N	1790	µg/l	0.50		< 0.50		
2-Chlorophenol	N	1790	µg/l	0.50		< 0.50		
Bis-(2-Chloroethyl)Ether	N	1790	µg/l	0.50		< 0.50		
1,3-Dichlorobenzene	N	1790	µg/l	0.50		< 0.50		
1,4-Dichlorobenzene	N	1790	µg/l	0.50		< 0.50		
1,2-Dichlorobenzene	N	1790	µg/l	0.50		< 0.50		
2-Methylphenol (o-Cresol)	N	1790	µg/l	0.50		< 0.50		
Bis(2-Chloroisopropyl)Ether	N	1790	µg/l	0.50		< 0.50		
Hexachloroethane	N	1790	µg/l	0.50		< 0.50		
N-Nitrosodi-n-propylamine	N	1790	µg/l	0.50		< 0.50		
4-Methylphenol	N	1790	µg/l	0.50		< 0.50		
Nitrobenzene	N	1790	µg/l	0.50		< 0.50		
Isophorone	N	1790	µg/l	0.50		< 0.50		
2-Nitrophenol	N	1790	µg/l	0.50		< 0.50		
2,4-Dimethylphenol	N	1790	µg/l	0.50		< 0.50		
Bis(2-Chloroethoxy)Methane	N	1790	µg/l	0.50		< 0.50		
2,4-Dichlorophenol	N	1790	µg/l	0.50		< 0.50		
1,2,4-Trichlorobenzene	N	1790	µg/l	0.50		< 0.50		
Naphthalene	N	1790	µg/l	0.50		< 0.50		
4-Chloroaniline	N	1790	µg/l	0.50		< 0.50		
Hexachlorobutadiene	N	1790	µg/l	0.50		< 0.50		
4-Chloro-3-Methylphenol	N	1790	µg/l	0.50		< 0.50		
2-Methylnaphthalene	N	1790	µg/l	0.50		< 0.50		

Project: LKC 19 1314 - Barns Lane, Dunham Massey

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	Client Sample ID.:				WS103	WS104	WS107f	WS108
	Sample Type:				WATER	WATER	WATER	WATER
	Date Sampled:				31-Jul-2019	31-Jul-2019	31-Jul-2019	31-Jul-2019
Determinand	Accred.	SOP	Units	LOD				
Hexachlorocyclopentadiene	N	1790	µg/l	0.50		< 0.50		
2,4,6-Trichlorophenol	N	1790	µg/l	0.50		< 0.50		
2,4,5-Trichlorophenol	N	1790	µg/l	0.50		< 0.50		
2-Chloronaphthalene	N	1790	µg/l	0.50		< 0.50		
2-Nitroaniline	N	1790	µg/l	0.50		< 0.50		
Acenaphthylene	N	1790	µg/l	0.50		1.7		
Dimethylphthalate	N	1790	µg/l	0.50		< 0.50		
2,6-Dinitrotoluene	N	1790	µg/l	0.50		< 0.50		
Acenaphthene	N	1790	µg/l	0.50		0.78		
3-Nitroaniline	N	1790	µg/l	0.50		< 0.50		
Dibenzofuran	N	1790	µg/l	0.50		0.64		
4-Chlorophenylphenylether	N	1790	µg/l	0.50		< 0.50		
2,4-Dinitrotoluene	N	1790	µg/l	0.50		< 0.50		
Fluorene	N	1790	µg/l	0.50		0.94		
Diethyl Phthalate	N	1790	µg/l	0.50		< 0.50		
4-Nitroaniline	N	1790	µg/l	0.50		< 0.50		
2-Methyl-4,6-Dinitrophenol	N	1790	µg/l	0.50		< 0.50		
Azobenzene	N	1790	µg/l	0.50		< 0.50		
4-Bromophenylphenyl Ether	N	1790	µg/l	0.50		< 0.50		
Hexachlorobenzene	N	1790	µg/l	0.50		< 0.50		
Pentachlorophenol	N	1790	µg/l	0.50		< 0.50		
Phenanthrene	N	1790	µg/l	0.50		1.4		
Anthracene	N	1790	µg/l	0.50		< 0.50		
Carbazole	N	1790	µg/l	0.50		< 0.50		
Di-N-Butyl Phthalate	N	1790	µg/l	0.50		< 0.50		
Fluoranthene	N	1790	µg/l	0.50		0.64		
Pyrene	N	1790	µg/l	0.50		< 0.50		
Butylbenzyl Phthalate	N	1790	µg/l	0.50		< 0.50		
Benzo[a]anthracene	N	1790	µg/l	0.50		< 0.50		
Chrysene	N	1790	µg/l	0.50		< 0.50		
Bis(2-Ethylhexyl)Phthalate	N	1790	µg/l	0.50		< 0.50		
Di-N-Octyl Phthalate	N	1790	µg/l	0.50		< 0.50		
Benzo[b]fluoranthene	N	1790	µg/l	0.50		< 0.50		
Benzo[k]fluoranthene	N	1790	µg/l	0.50		< 0.50		
Benzo[a]pyrene	N	1790	µg/l	0.50		< 0.50		
Indeno(1,2,3-c,d)Pyrene	N	1790	µg/l	0.50		< 0.50		
Dibenz(a,h)Anthracene	N	1790	µg/l	0.50		< 0.50		
Benzo[g,h,i]perylene	N	1790	µg/l	0.50		< 0.50		
4-Nitrophenol	N	1790	µg/l	0.50		< 0.50		
Naphthalene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010

Project: LKC 19 1314 - Barns Lane, Dunham Massey

Client: LK Consult		Chemtest Job No.:		19-25737	19-25737	19-25737	19-25737
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		Client Sample ID.:		WS103	WS104	WS107f	WS108
		Sample Type:		WATER	WATER	WATER	WATER
		Date Sampled:		31-Jul-2019	31-Jul-2019	31-Jul-2019	31-Jul-2019
Determinand	Accred.	SOP	Units	LOD			
Acenaphthylene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010
Acenaphthene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010
Fluorene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010
Phenanthrene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010
Anthracene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010
Fluoranthene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010
Pyrene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010
Benzo[a]anthracene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010
Chrysene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010
Benzo[b]fluoranthene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010
Benzo[k]fluoranthene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010
Benzo[a]pyrene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010
Indeno(1,2,3-c,d)Pyrene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010
Dibenz(a,h)Anthracene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010
Benzo[g,h,i]perylene	N	1800	µg/l	0.010	< 0.010	< 0.010	< 0.010
Total Of 6 PAH's	N	1800	µg/l	0.10	< 0.10	< 0.10	< 0.10
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1270	Total Hardness of Waters	Total hardness	Calculation applied to calcium and magnesium results, expressed as mg l-1 CaCO ₃ equivalent.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1415	Cations in Waters by ICP-MS	Sodium; Potassium; Calcium; Magnesium	Direct determination by inductively coupled plasma - mass spectrometry (ICP-MS).
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1460	Mercury low-level in Waters by AFS	Mercury	Atomic Fluorescence Spectrometry, with collimated UV source, wavelength 253.7 nm.
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1670	Total Petroleum Hydrocarbons (TPH) in Waters by GC-FID	TPH (C ₆ -C ₄₀); optional carbon banding, e.g. 3-band - GRO, DRO & LRO	Pentane extraction / GC FID detection
1675	TPH Aliphatic/Aromatic split in Waters by GC-FID(cf. Texas Method 1006 / TPH CWG)	Aliphatics: >C ₅ -C ₆ , >C ₆ -C ₈ , >C ₈ -C ₁₀ , >C ₁₀ -C ₁₂ , >C ₁₂ -C ₁₆ , >C ₁₆ -C ₂₁ , >C ₂₁ -C ₃₅ , >C ₃₅ -C ₄₄ Aromatics: >C ₅ -C ₇ , >C ₇ -C ₈ , >C ₈ -C ₁₀ , >C ₁₀ -C ₁₂ , >C ₁₂ -C ₁₆ , >C ₁₆ -C ₂₁ , >C ₂₁ -C ₃₅ , >C ₃₅ -C ₄₄	Pentane extraction / GCxGC FID detection
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.
1790	Semi-Volatile Organic Compounds (SVOCs) in Waters by GC-MS	Semi-volatile organic compounds	Solvent extraction / GCMS detection
1800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-MS	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Pentane extraction / GCMS detection
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

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

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

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

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

All Asbestos testing is performed at the indicated laboratory

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

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

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

Charges may apply to extended sample storage

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

customerservices@chemtest.com

Appendix E

Certificates of Analysis – Geotechnical



TEST REPORT

Client LK Consult Ltd

Address Unit 29 Eton Business
Eton Hill Road
Radcliffe
Greater Manchester
M26 2ZS

Contract LKC 19 1314 -
Barns Lane, Dunham Massey

Job Number MRN 3524/95
Date of Issue 05 August 2019
Page 1 of 8

Approved Signatories

S J Hutchings, O P Davies

Notes

- 1 All remaining samples and remnants from this contract will be disposed 28 days from the date of this report unless you notify us to the contrary.
- 2 Result certificates, in this report, not bearing a UKAS mark, are not included in our UKAS accreditation schedule.
- 3 Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation
- 4 Certified that the samples have been examined and tested in accordance with the terms of the contract/order and unless otherwise stated conform to the standards/specifications quoted. This does not, however, guarantee the balance of the materials from which the tested samples have been taken to be of equal quality.



URRAY RIX

33C Vauxhall Ind. Estate, Greg Street
Reddish, Stockport SK5 7BR
TEL 0161 475 0870 FAX 0161 475 0871



TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

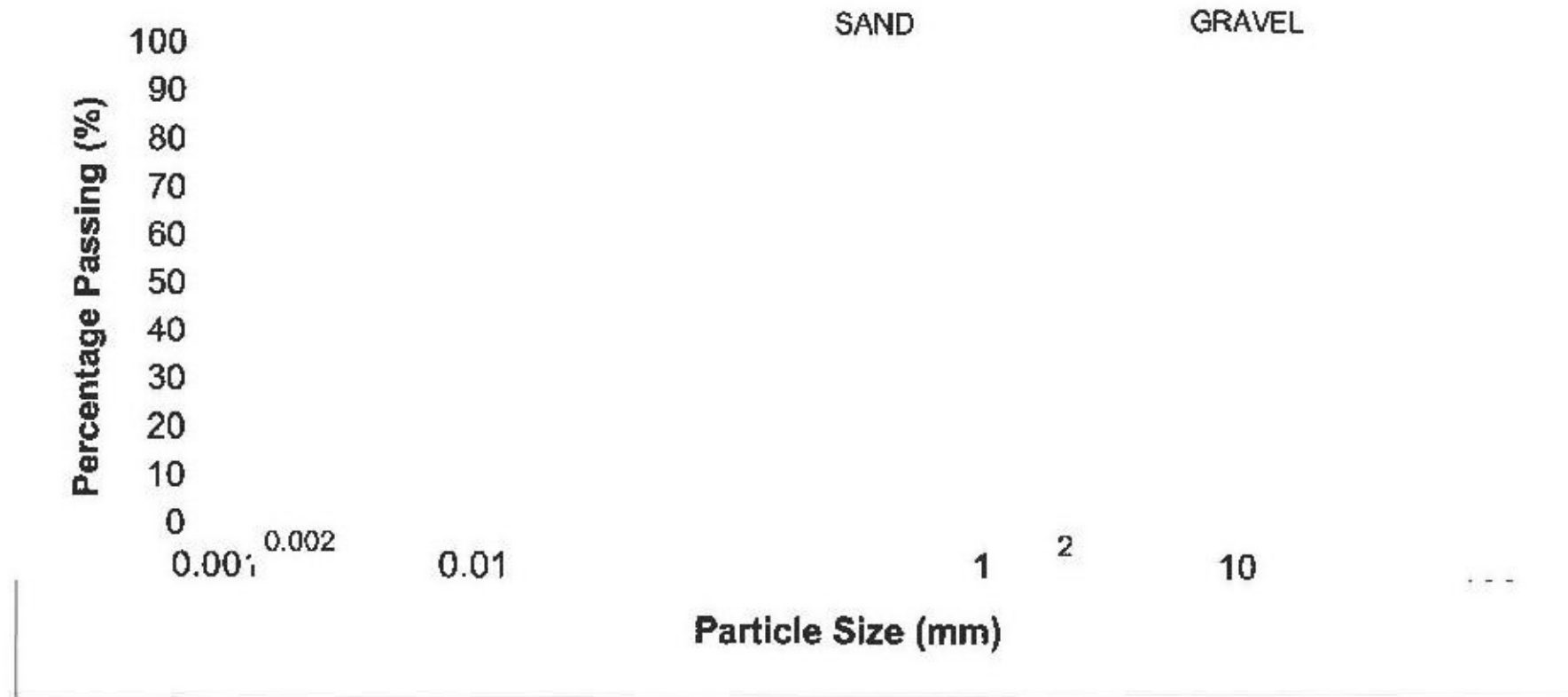
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT LK Consult Ltd
SITE LKC 19 1314 - Barns Lane, Dunham Masse
JOB NUMBER MRN 3524/95

SAMPLE LABEL WS101 1.0-3.0m
LAB SAMPLE No 84674
DATE TESTED 29-Jul-19
DATE SAMPLED Not advised
DATE RECEIVED 26-Jul-19
SAMPLED BY Client

MATERIAL Brown silt fine to coarse SAND with rare gravel
ADVISED SOURCE Site Investigation Sample

Sieve Size	% Passing	Specification	Sieve Size	% Passing	Specification
mm	%	%	mm	%	%
125	100		10	100	
90	100		5	100	
75	100		2	98	
50	100		0.6	86	
37.5	100		0.3	59	
20	100		0.15	38	
14	100		0.063	26	



REMARKS

As received moisture content = 19%

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

05-Aug-19

URRAY RI

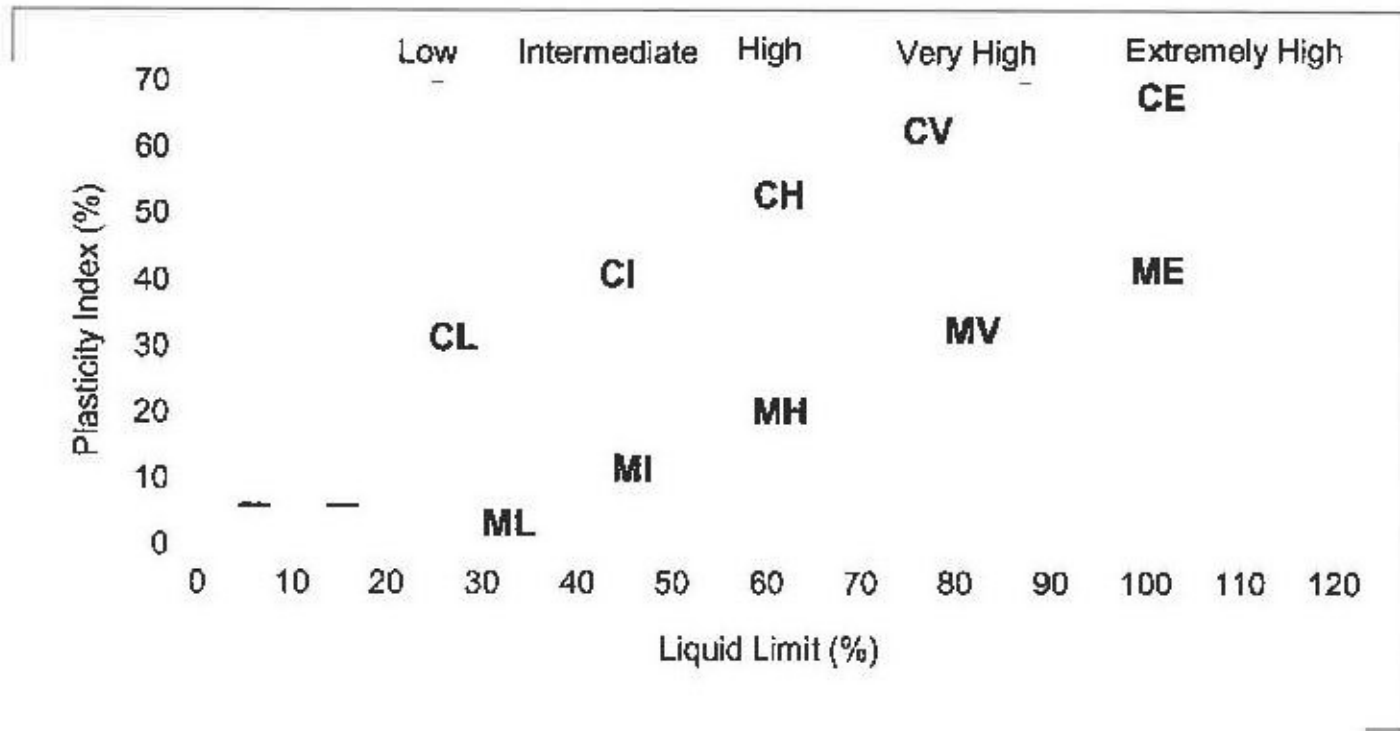
33C Vauxhall Ind. Estate, Greg Street
 Reddish, Stockport SK5 7BR
 TEL 0161 475 0870 FAX 0161 475 0871



TEST CERTIFICATE LIQUID AND PLASTIC LIMIT

BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3
 MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	LK Consult Ltd			
SITE	LKC 19 1314 - Barns Lane Dunham Masse			
JOB NUMBER	MRN 3524/95			
SAMPLE LABEL	WS103 2.8-4.8m	DATE SAMPLED	Not advised	
SAMPLE No.	84675	DATE RECEIVED	26-Jul-19	
DATE TESTED	30-Jul-19	SAMPLED BY	Client	
MATERIAL	Stiff brown silt sand CLAY with rare ravel			
ADVISED SOURCE	Site Investigation Sample			
Moisture Content (Natural)	Liquid Limit	Plastic Limit	Plasticity Index	Passing 425 micron
%	%	%	%	%
21	37	14	23	95



REMARKS
 Sample tested in natural condition

SIGN

NAME O.P. Davies BA (Hons)
 (Laboratory Manager)

ug-19

URRAY

33C Vauxhall Ind. Estate, Greg Street
Reddish, Stockport SK5 7BR
TEL 0161 475 0870 FAX 0161 475 0871



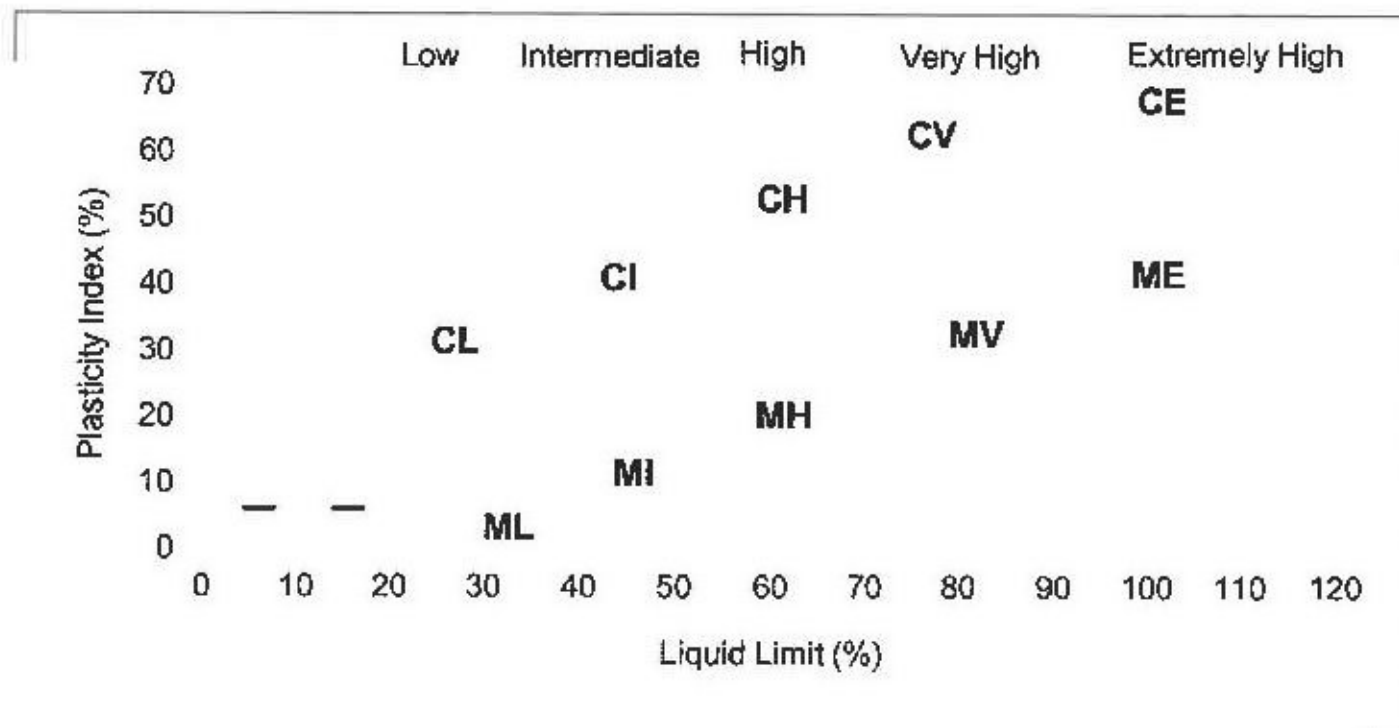
TEST CERTIFICATE

LIQUID AND PLASTIC LIMIT

BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3
MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	LK Consult Ltd		
SITE	LKC 19 1314 - Barns Lane Dunham Masse		
JOB NUMBER	MRN 3524/95		
SAMPLE LABEL	WS104 2.9-4.9m	DATE SAMPLED	Not advised
SAMPLE No.	84676	DATE RECEIVED	26-Jul-19
DATE TESTED	30-Jul-19	SAMPLED BY	Client
MATERIAL	Stiff brown silt sand CLAY with rare ravel		
ADVISED SOURCE	Site Investigation Sample		

Moisture Content (Natural) (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
22	40	15	25	92



REMARKS
Sample tested in natural condition

SIGNED

NAME
Page 4 of 8

O.P. Davies BA (Hons)
(Laboratory Manager)

ug-19

URRAY RIX

33C Vauxhall Ind. Estate, Greg Street
Reddish, Stockport SK5 7BR
TEL 0161 475 0870 FAX 0161 475 0871



TEST CERTIFICATE PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

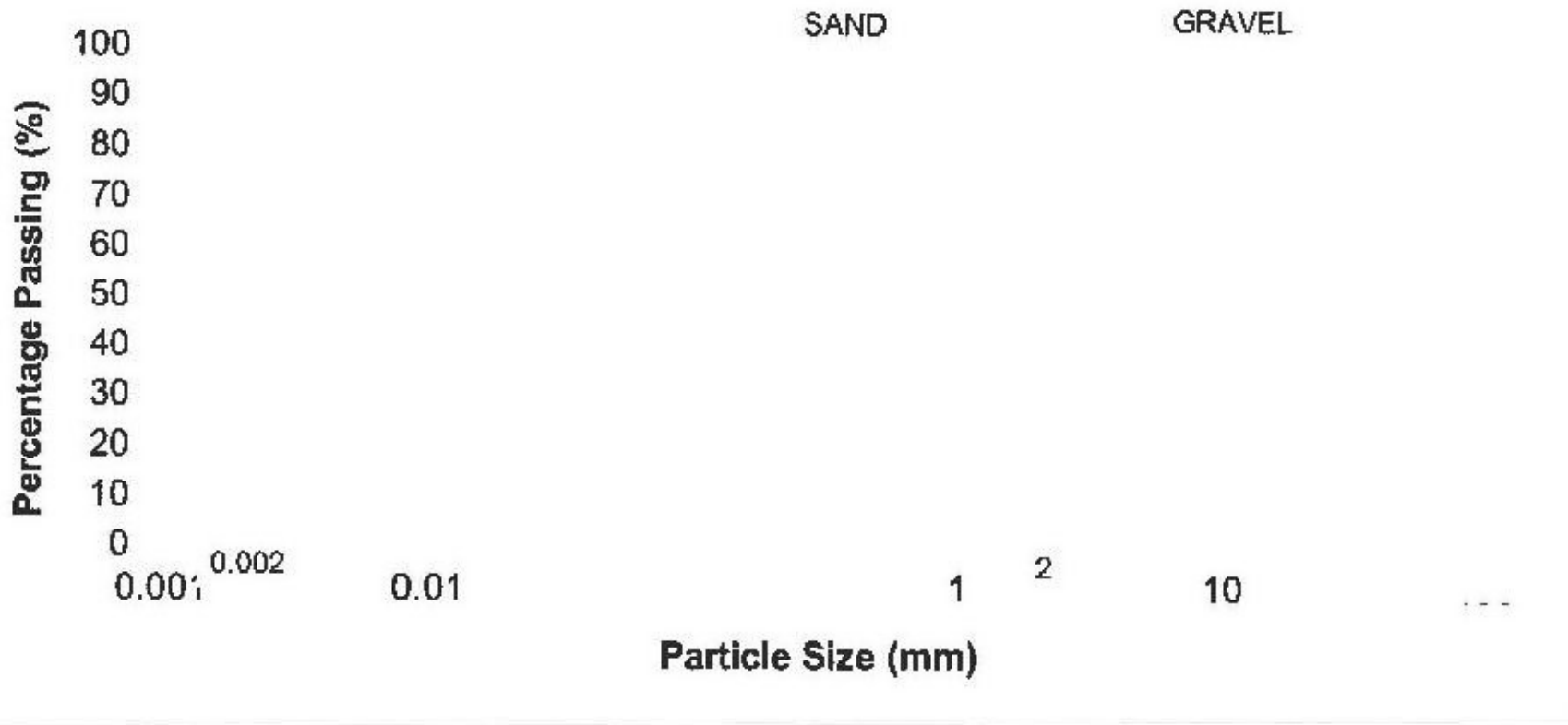
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT LK Consult Ltd
SITE LKC 19 1314 - Barns Lane, Dunham Masse
JOB NUMBER MRN 3524/95

SAMPLE LABEL WS106 0.8-2.8m
LAB SAMPLE No 84677
DATE TESTED 29-Jul-19
DATE SAMPLED Not advised
DATE RECEIVED 26-Jul-19
SAMPLED BY Client

MATERIAL Brown silt fine to coarse SAND with rare gravel
ADVISED SOURCE Site Investigation Sample

Sieve Size	% Passing	Specification	Sieve Size	% Passing	Specification
mm	%	%	mm	%	%
125	100		10	100	
90	100		5	100	
75	100		2	98	
50	100		0.6	89	
37.5	100		0.3	53	
20	100		0.15	30	
14	100		0.063	19	



REMARKS

As received moisture content = 17%

SIGNED



NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

05-Aug-19

URRAY

33C Vauxhall Ind. Estate, Greg Street
Reddish, Stockport SK5 7BR
TEL 0161 475 0870 FAX 0161 475 0871

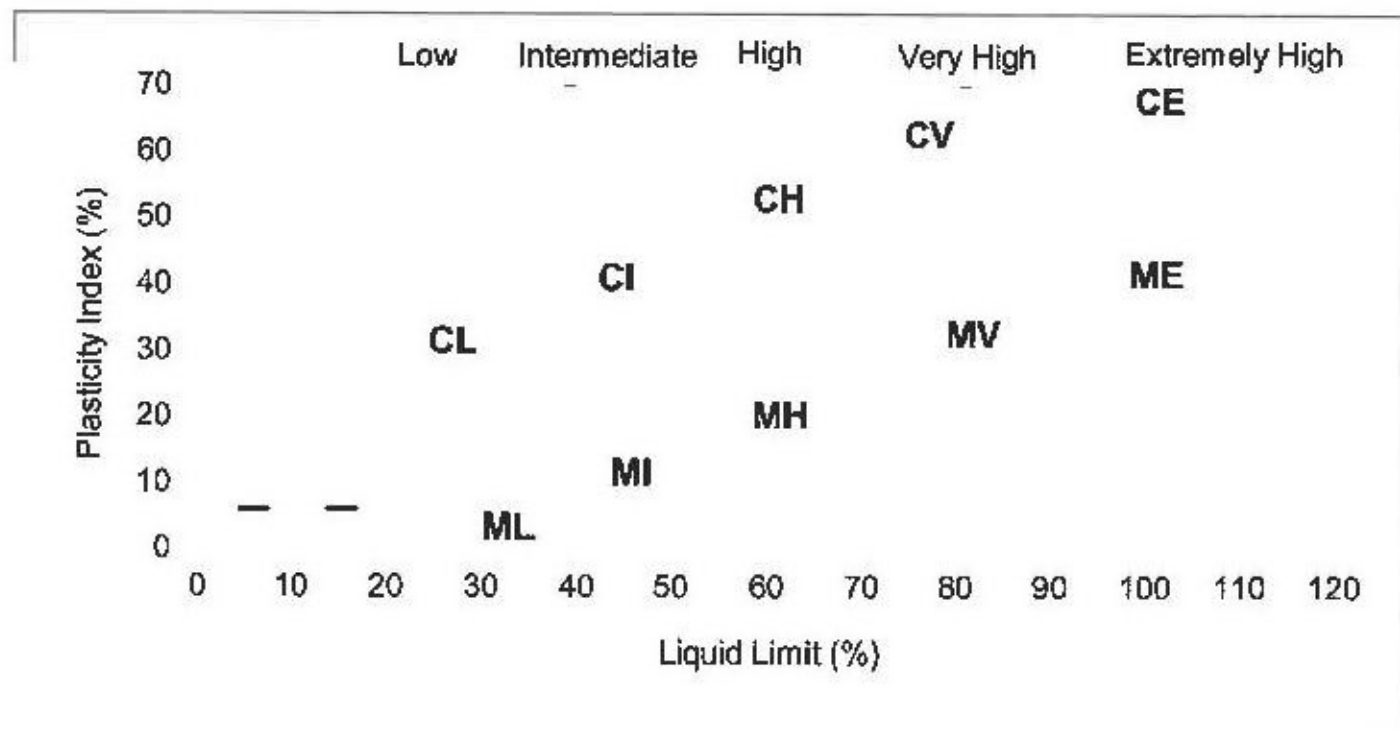


TEST CERTIFICATE LIQUID AND PLASTIC LIMIT

BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3
MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	LK Consult Ltd		
SITE	LKC 19 1314 - Barns Lane Dunham Masse		
JOB NUMBER	MRN 3524/95		
SAMPLE LABEL	WS108 2.9-4.9m	DATE SAMPLED	Not advised
SAMPLE No.	84678	DATE RECEIVED	26-Jul-19
DATE TESTED	30-Jul-19	SAMPLED BY	Client
MATERIAL	Firm to stiff brown silt sand CLAY with rare gravel		
ADVISED SOURCE	Site Investigation Sample		

Moisture Content (Natural) %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Passing 425 micron %
25	39	13	26	94



REMARKS
Sample tested in natural condition

SIGNED

NAME O.P. Davies BA (Hons)
Page 6 of 8 (Laboratory Manager)

ug-19

URRAY RIX

33C Vauxhall Ind. Estate, Greg Street
Reddish, Stockport SK5 7BR
TEL 0161 475 0870 FAX 0161 475 0871



TEST CERTIFICATE PARTICLE SIZE DISTRIBUTION BS 1377: PART 2: Clause 9.2: 1990

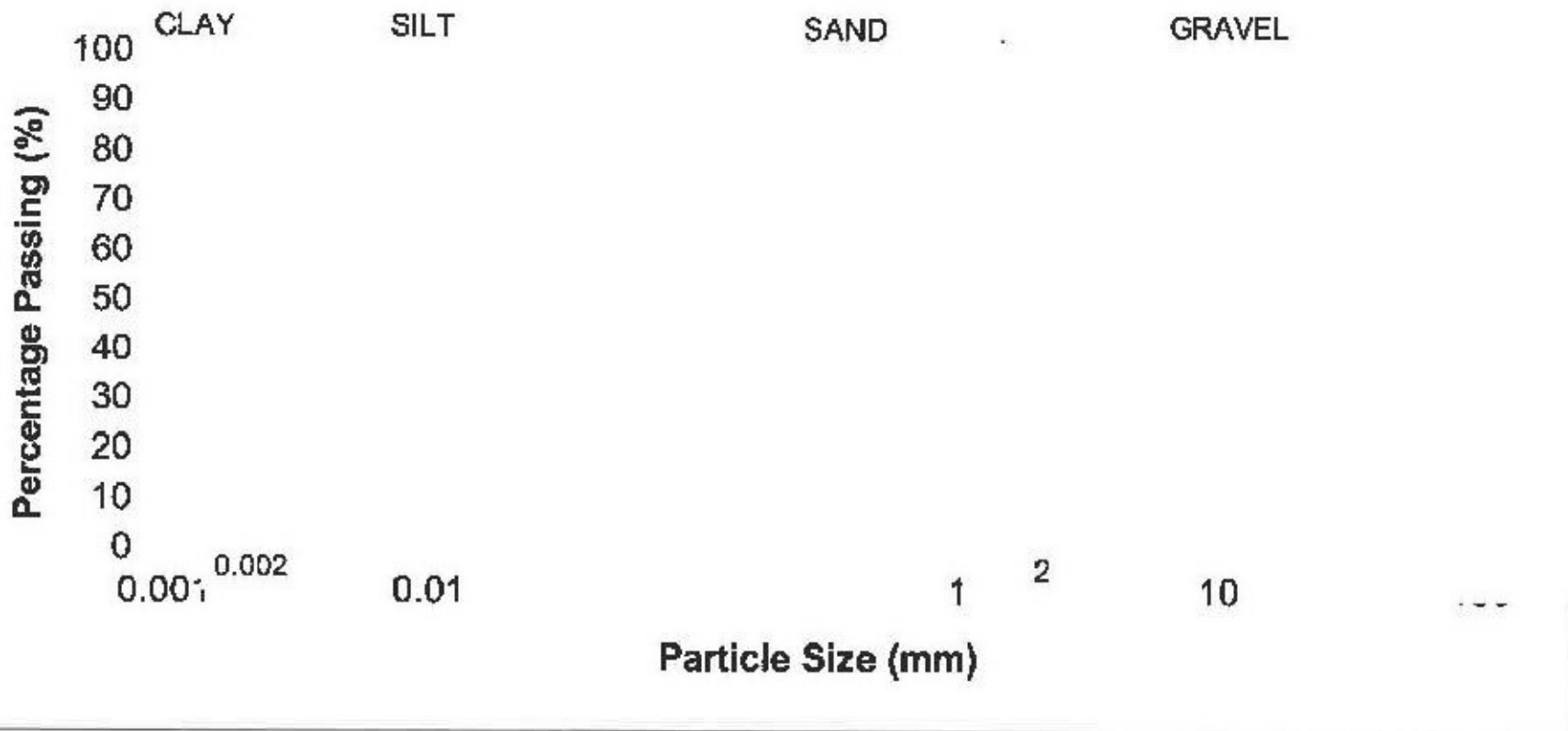
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT LK Consult Ltd
SITE LKC 19 1314 - Barns Lane, Dunham Masse
JOB NUMBER MRN 3524/95

SAMPLE LABEL TP101 1.5-2.0m DATE SAMPLED Not advised
LAB SAMPLE No 84679 DATE RECEIVED 26-Jul-19
DATE TESTED 29-Jul-19 SAMPLED BY Client

MATERIAL Brown silt fine to coarse SAND with rare gravel
ADVISED SOURCE Site Investigation Sample

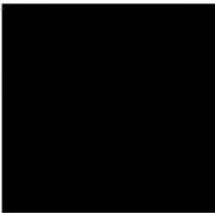
Sieve Size	% Passing	Specification	Sieve Size	% Passing	Specification
mm	%	%	mm	%	%
125	100		10	100	
90	100		5	100	
75	100		2	96	
50	100		0.6	86	
37.5	100		0.3	57	
20	100		0.15	31	
14	100		0.063	19	



REMARKS

As received moisture content = 17%

SIGNED



NAME O.P. Davies BA (Hons)
(Laboratory Manager)

DATE 05-Aug-19

URRAY RIX

33C Vauxhall Ind. Estate, Greg Street
 Reddish, Stockport SK5 7BR
 TEL 0161 475 0870 FAX 0161 475 0871



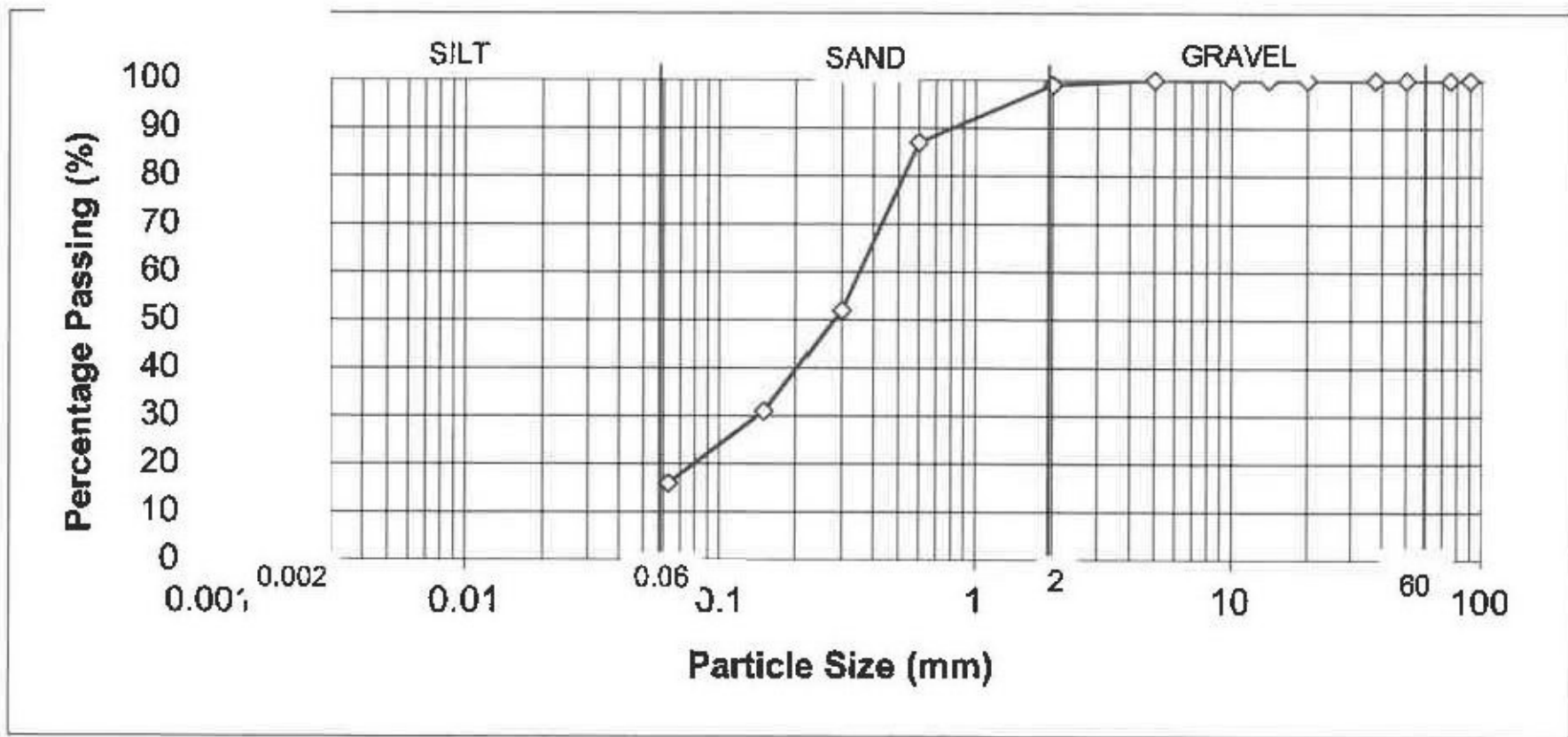
TEST CERTIFICATE PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.2: 1990

Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	LK Consult Ltd	DATE SAMPLED	Not advised
SITE	LKC 19 1314 - Barns Lane, Dunham Masse	DATE RECEIVED	26-Jul-19
JOB NUMBER	MRN 3524/95	SAMPLED BY	Client
SAMPLE LABEL	TP103 1.5-2.0m		
LAB SAMPLE No	84680		
DATE TESTED	29-Jul-19		
MATERIAL	Brown silt fine to coarse SAND with rare ravel		
ADVISED SOURCE	Site Investigation Sample		

Sieve Size	% Passing	Specification %	Sieve Size	% Passing	Specification %
125	100		10	100	
90	100		5	100	
75	100		2	99	
50	100		0.6	87	
37.5	100		0.3	52	
20	100		0.15	31	
14	100		0.063	16	



REMARKS
 As received moisture content = 18%

SIGNED 
 NAME 

O.P. Davies BA (Hons)
 (Laboratory Manager)

DATE 05-Aug-19

Appendix F

Gas Monitoring Results

Appendix G

Generic Assessment Criteria Values

Category 4 Screening Levels (C4SL)

Substance	Residential (with home- grown produce)	Residential (without home- grown produce)	Allotments	Commercial	Public Open Space 1	Public Open Space 2
Arsenic	37 mg/kg	40 mg/kg	49 mg/kg	640 mg/kg	79 mg/kg	168 mg/kg
Benzene	0.87 mg/kg	3.3 mg/kg	0.18 mg/kg	98 mg/kg	140 mg/kg	230 mg/kg
Benzo(a)pyrene	5 mg/kg	5.3 mg/kg	5.7 mg/kg	76 mg/kg	10 mg/kg	21 mg/kg
Cadmium	26 mg/kg	149 mg/kg	4.9 mg/kg	410 mg/kg	220 mg/kg	880 mg/kg
Chromium VI	21 mg/kg	21 mg/kg	170 mg/kg	49 mg/kg	23 mg/kg	250 mg/kg
Lead	200 mg/kg	310 mg/kg	80 mg/kg	2330 mg/kg	630 mg/kg	1300 mg/kg

Summary Table for the Generic Assessment Criteria for Human Health Risk Assessment Land Quality Management (LQM) S4ULs.

All GAC are based on sandy loam soils with a pH 7.

		LQM Generic Assessment Criteria (mg/kg) Dry weight soil						
Contaminant		SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}
Metals	Inorganic Arsenic	6%	37	40	43	640	79	170
	Beryllium	6%	1.7	1.7	35	12	2.2	63
	Boron	6%	290	11,000	45	240,000	21,000	46,000
	Cadmium	6%	11	85	1.9	190	120	532
	Chromium (III)	6%	910	910	18,000	8,600	1,500	33,000
	Chromium (VI)	6%	6.0	6.0	1.8	33	7.7	220
	Copper	6%	2,400	7,100	520	68,000	12,000	44,000
	Elemental Mercury	6%	1.2	1.2	21	58 (25.8) ^{vap}	16	30 (25.8) ^{vap}
	Inorganic Mercury	6%	40	56	19	1,100	120	240
	Methylmercury	6%	11	15	6.0	320	40	68
	Nickel	6%	180	180	230	980	230	3,400
	Selenium	6%	250	430	88	12,000	1,100	1,800
	Vanadium	6%	410	1,200	91	9,000	2,000	5,000
	Zinc	6%	3,700	40,000	620	730,000	81,000	170,000
BTEX Compounds	Benzene	1%	0.087	0.38	0.017	27	72	90
		2.5%	0.17	0.70	0.034	47	72	100
		6%	0.37	1.4	0.075	90	73	110
	Toluene	1%	130	880 (869) ^{vap}	22	56,000 (869) ^{vap}	56,000	87,000 (869) ^{vap}
		2.5%	290	1,900	51	110,000 (1,920) ^{vap}	56,000	95,000 (1,920) ^{vap}
		6%	660	3,900	120	180,000 (4,360) ^{vap}	56,000	100,000 (4,360) ^{vap}
	Ethylbenzene	1%	47	83	16	5,700 (518) ^{vap}	24,000	17,000 (518) ^{vap}
		2.5%	110	190	39	13,000 (1,220) ^{vap}	24,000	22,000 (1,220) ^{vap}
		6%	260	440	91	27,000 (2,840) ^{vap}	25,000	27,000 (2,840) ^{vap}
	o-xylene	1%	60	88	28	6,600 (478) ^{sol}	41,000	17,000 (478) ^{sol}
		2.5%	140	210	67	15,000 (1,120) ^{sol}	42,000	24,000 (1,120) ^{sol}
		6%	330	480	160	33,000 (2,620) ^{sol}	43,000	33,000 (2,620) ^{sol}
	m-xylene	1%	59	82	31	6,200 (625) ^{vap}	41,000	17,000 (625) ^{vap}
		2.5%	140	190	74	14,000 (1,470) ^{vap}	42,000	24,000 (1,470) ^{vap}
		6%	320	450	170	31,000 (3,460) ^{vap}	43,000	32,000 (3,460) ^{vap}
	p-xylene	1%	56	79	29	5,900 (576) ^{sol}	41,000	17,000 (576) ^{sol}
		2.5%	130	180	69	14,000 (1,350) ^{sol}	42,000	23,000 (1,350) ^{sol}
		6%	310	430	160	30,000 (3,170) ^{sol}	43,000	31,000 (3,170) ^{sol}

NOTES

^{sol/vap} = solubility / vapour limit (potentially use if free product identified, although highly conservative).
f = oral, dermal and inhalation exposures compared to oral HCV.

All GAC are based on sandy loam soils with a pH 7.

LQM Generic Assessment Criteria (mg/kg) Dry weight soil

Contaminant	SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}
Acenaphthene	1%	210	3,000 (57.1) ^{sol}	34	84,000 (57.0) ^{sol}	15,000	29,000
	2.5%	510	4,700 (141) ^{sol}	85	97,000 (141) ^{sol}	15,000	30,000
	6%	1,100	6,000 (336) ^{sol}	200	100,000	15,000	30,000
Acenaphthylene	1%	170	2,900 (86.1) ^{sol}	28	83,000 (86.1) ^{sol}	15,000	29,000
	2.5%	420	4,600 (212) ^{sol}	69	97,000 (212) ^{sol}	15,000	30,000
	6%	920	6,000 (506) ^{sol}	160	100,000	15,000	30,000
Anthracene	1%	2,400	31,000 (1.17) ^{vap}	380	520,000	74,000	150,000
	2.5%	5,400	35,000	950	540,000	74,000	150,000
	6%	11,000	37,000	2,200	540,000	74,000	150,000
Benz(a)anthracene	1%	7.2	11	2.9	170	29	49
	2.5%	11	14	6.5	170	29	56
	6%	13	15	13	180	29	62
Benzo(a)pyrene (only)	1%	2.2	3.2	0.97	35	5.7	11
	2.5%	2.7	3.2	2.0	35	5.7	12
	6%	3.0	3.2	3.5	36	5.7	13
Benzo(b)fluoranthene	1%	2.6	3.9	0.99	44	7.1	13
	2.5%	3.3	4.0	2.1	44	7.2	15
	6%	3.7	4.0	3.9	45	7.2	16
Benzo(ghi)perylene	1%	320	360	290	3,900	640	1,400
	2.5%	340	360	470	4,000	640	1,500
	6%	350	360	640	4,000	640	1,600
Benzo(k)fluoranthene	1%	77	110	37	1,200	190	370
	2.5%	93	110	75	1,200	190	410
	6%	100	110	130	1,200	190	440
Chrysene	1%	15	30	4.1	350	57	93
	2.5%	22	31	9.4	350	57	110
	6%	27	32	19	350	57	120
Dibenzo(ah)anthracene	1%	0.24	0.31	0.14	3.5	0.57	1.1
	2.5%	0.28	0.32	0.27	3.6	0.58	1.3
	6%	0.3	0.32	0.43	3.6	0.58	1.4
Fluoranthene	1%	280	1,500	52	23,000	3,100	6,300
	2.5%	560	1,600	130	23,000	3,100	6,300
	6%	890	1,600	290	23,000	3,100	6,400
Fluorene	1%	170	2,800 (36.0) ^{sol}	27	63,000 (30.9) ^{sol}	9,900	20,000
	2.5%	400	3,800 (76.5) ^{sol}	67	68,000	9,900	20,000
	6%	860	4,500 (183) ^{sol}	160	71,000	9,900	20,000
Indeno(123-cd)pyrene	1%	27	45	9.5	500	82	150
	2.5%	36	46	21	510	82	170
	6%	41	46	39	510	82	180
Naphthalene	1%	2.3 ^f	2.3 ^f	4.1 ^f	190 ^f (76.4) ^{sol}	4,900 ^f	1,200 ^f (76.4) ^{sol}
	2.5%	5.6 ^f	5.6 ^f	10 ^f	460 ^f (183) ^{sol}	4,900 ^f	1,900 ^f (183) ^{sol}
	6%	13 ^f	13 ^f	24 ^f	1,100 ^f (432) ^{sol}	4,900 ^f	3,000
Phenanthrene	1%	95	1,300 (36.0) ^{sol}	15	22,000	3,100	6,200
	2.5%	220	1,500	38	22,000	3,100	6,200
	6%	440	1,500	90	22,000	3,100	6,300
Pyrene	1%	620	3,700	110	54,000	7,400	15,000
	2.5%	1,200	3,800	270	54,000	7,400	15,000
	6%	2,000	3,800	620	54,000	7,400	15,000
Coal Tar (B(a)P as surrogate marker)	1%	0.79	1.2	0.32	15	2.2	4.4
	2.5%	0.98	1.2	0.67	15	2.2	4.7
	6%	1.1	1.2	1.2	15	2.2	4.8

NOTES

^{sol/vap} = solubility / vapour limit (potentially use if free product identified, although highly conservative).

^f = naphthalene is based on comparison of inhalation exposure with TDI_{inhal} for localised effect.

Polycyclic Aromatic Hydrocarbons (PAHs)

All GAC are based on sandy loam soils with a pH 7.

LQM Generic Assessment Criteria (mg/kg) Dry weight soil

Contaminant	SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}
Aliphatic							
EC 5-6	1%	42	42	730	3,200 (304) ^{sol}	570,000(304) ^{sol}	95,000 (304) ^{sol}
EC>6-8	1%	100	100	2,300	7,800 (144) ^{sol}	600,000	150,000 (144) ^{sol}
EC>8-10	1%	27	27	320	2,000 (78) ^{sol}	13,000	14,000 (78) ^{vap}
EC>10-12	1%	130 (48) ^{vap}	130 (48) ^{vap}	2,200	9,700 (48) ^{sol}	13,000	21,000 (48) ^{vap}
EC>12-16	1%	1,100 (24) ^{sol}	1,100 (24) ^{sol}	11,000	59,000 (24) ^{sol}	13,000	25,000 (24) ^{sol}
EC>16-35	1%	65,000 (8.48) ^{f, sol}	65,000 (8.48) ^{f, sol}	260,000 ^f	160,000 ^f	250,000 ^f	450,000 ^f
EC>35-44	1%	65,000 (8.48) ^{f, sol}	65,000 (8.48) ^{f, sol}	260,000 ^f	160,000 ^f	250,000 ^f	450,000 ^f
Aliphatic							
EC 5-6	2.5%	78	78	1,700	5,900 (558) ^{sol}	590,000	130,000 (558) ^{sol}
EC>6-8	2.5%	230	230	5,600	17,000 (322) ^{sol}	610,000	220,000 (322) ^{sol}
EC>8-10	2.5%	65	65	770	4,800 (190) ^{vap}	13,000	18,000 (190) ^{vap}
EC>10-12	2.5%	330 (118) ^{vap}	330 (118) ^{vap}	4,400	23,000 (118) ^{vap}	13,000	23,000 (118) ^{vap}
EC>12-16	2.5%	2,400 (59) ^{sol}	2,400 (59) ^{sol}	13,000	82,000 (59) ^{sol}	13,000	25,000 (59) ^{sol}
EC>16-35	2.5%	92,000 (21) ^{f, sol}	92,000 (21) ^{f, sol}	270,000 ^f	1,700,000 ^f	250,000 ^f	480,000 ^f
EC>35-44	2.5%	92,000 (21) ^{f, sol}	92,000 (21) ^{f, sol}	270,000 ^f	1,700,000 ^f	250,000 ^f	480,000 ^f
Aliphatic							
EC 5-6	6%	160	160	3,900	12,000 (1,150) ^{sol}	600,000	180,000 (1,150) ^{sol}
EC>6-8	6%	530	530	13,000	40,000 (736) ^{sol}	620,000	320,000 (736) ^{sol}
EC>8-10	6%	150	150	1,700	11,000 (451) ^{vap}	13,000	21,000 (451) ^{vap}
EC>10-12	6%	760 (283) ^{vap}	760 (283) ^{vap}	7,300	47,000 (283) ^{vap}	13,000	24,000 (283) ^{vap}
EC>12-16	6%	4,300 (142) ^{sol}	4,400 (142) ^{sol}	13,000	90,000 (142) ^{sol}	13,000	26,000 (142) ^{sol}
EC>16-35	6%	110,000 ^f	110,000 ^f	270,000 ^f	1,800,000 ^f	250,000 ^f	490,000 ^f
EC>35-44	6%	110,000 ^f	110,000 ^f	270,000 ^f	1,800,000 ^f	250,000 ^f	490,000 ^f
Aromatic							
EC5-7(benzene as non-threshold)	1%	70	370	13	26,000 (1,220) ^{sol}	56,000	76,000 (1,220) ^{sol}
EC>7-8(toluene)	1%	130	860	22	56,000 (869) ^{vap}	56,000	87,000 (869) ^{vap}
EC>8-10	1%	34	47	8.6	3,500 (613) ^{vap}	5,000	7,200 (613) ^{vap}
EC>10-12	1%	74	250	13	16,000 (364) ^{sol}	5,000	9,200 (364) ^{sol}
EC>12-16	1%	140	1,800	23	36,000 (169) ^{sol}	5,100	10,000
EC>16-21	1%	260 ^f	1,900 ^f	46 ^f	28,000 ^f	3,800 ^f	7,600 ^f
EC>21-35	1%	1,100 ^f	1,900 ^f	370 ^f	28,000 ^f	3,800 ^f	7,800 ^f
EC>35-44	1%	1,100 ^f	1,900 ^f	370 ^f	28,000 ^f	3,800 ^f	7,800 ^f
Aromatic							
EC5-7(benzene as non-threshold)	2.5%	140	690	27	46,000 (2,260) ^{sol}	56,000	84,000 (2,260) ^{sol}
EC>7-8(toluene)	2.5%	290	1,800	51	110,000 (1,920) ^{sol}	56,000	95,000 (1,920) ^{sol}
EC>8-10	2.5%	83	110	21	8,100 (1,500) ^{vap}	5,000	8,500 (1,500) ^{vap}
EC>10-12	2.5%	180	590	31	28,000 (899) ^{sol}	5,000	9,700 (899) ^{sol}
EC>12-16	2.5%	330	2,300 (419) ^{sol}	57	37,000	5,100	10,000
EC>16-21	2.5%	540 ^f	1,900 ^f	110 ^f	28,000 ^f	3,800 ^f	7,700 ^f
EC>21-35	2.5%	1,500 ^f	1,900 ^f	820 ^f	28,000 ^f	3,800 ^f	7,800 ^f
EC>35-44	2.5%	1,500 ^f	1,900 ^f	820 ^f	28,000 ^f	3,800 ^f	7,800 ^f
Aromatic							
EC5-7(benzene as non-threshold)	6%	300	1,400	57	86,000 (4,710) ^{sol}	56,000	92,000 (4,710) ^{sol}
EC>7-8(toluene)	6%	660	3,900	120	180,000 (4,360) ^{vap}	56,000	100,000 (4,360) ^{vap}
EC>8-10	6%	190	270	51	17,000 (3,580) ^{vap}	5,000	9,300 (3,580) ^{vap}
EC>10-12	6%	380	1,200	4	34,000 (2,150) ^{sol}	5,000	10,000
EC>12-16	6%	660	2,500	130	38,000	5,100	10,000
EC>16-21	6%	930 ^f	1,900 ^f	260 ^f	28,000 ^f	3,800 ^f	7,800 ^f
EC>21-35	6%	1,700 ^f	1,900 ^f	1,600 ^f	28,000 ^f	3,800 ^f	7,900 ^f
EC>35-44	6%	1,700 ^f	1,900 ^f	1,600 ^f	28,000 ^f	3,800 ^f	7,900 ^f
Aliphatic +Aromatic >EC44	1%	1,600 ^f	1,900 ^f	1,200 ^f	28,000 ^f	3,800 ^f	7,800 ^f
	2.5%	1,800 ^f	1,900 ^f	2,100 ^f	28,000 ^f	3,800 ^f	7,800 ^f
	6%	1,900 ^f	1,900 ^f	3,000 ^f	28,000 ^f	3,800 ^f	7,900 ^f

NOTES

^{sol} / ^{vap} = solubility / vapour limit (potentially use if free product identified, although highly conservative).

^f = oral, dermal and inhalation exposures compared to oral HCV.

All GAC are based on sandy loam soils with a pH 7.

LQM Generic Assessment Criteria (mg/kg) Dry weight soil

Contaminant	SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}
1,2 Dichloroethane (DCA)	1%	7.1E-03	9.2E-03	4.6E-03	0.67	29	21
	2.5%	1.1E-02	1.3E-02	8.3E-03	0.97	29	24
	6%	1.9E-02	2.3E-02	1.6E-02	1.7	29	28
1,1,1 Trichloroethane (TCA)	1%	8.8	9.0	48	660	140,000	57,000 (1,425) ^{vap}
	2.5%	18	18	110	1,300	140,000	76,000 (2,915) ^{vap}
	6%	39	40	240	3,000	140,000	100,000 (6,392) ^{vap}
1,1,2,2-Tetrachloroethanes (PCA)	1%	1.6	3.9	0.41	270	1,400	1,800
	2.5%	3.4	8.0	0.89	550	1,400	2,100
	6%	7.5	17	2.0	1,100	1,400	2,300
1,1,1,2-Tetrachloroethanes (PCA)	1%	1.2	1.5	0.79	110	1,400	1,500
	2.5%	2.8	3.5	1.9	250	1,400	1,800
	6%	6.4	8.2	4.4	560	1,400	2,100
Tetrachloroethene (PCE)	1%	0.18	0.18	0.65	19	1,400	810 (424) ^{sol}
	2.5%	0.39	0.40	1.5	42	1,400	1,100 (951) ^{sol}
	6%	0.90	0.92	3.6	95	1,400	1,500
Tetrachloromethane (carbon tetrachloride)	1%	2.6E-02	2.6E-02	0.45	2.9	890	190
	2.5%	5.6E-02	5.6E-02	1.0	6.3	920	270
	6%	0.13	0.13	2.4	14	950	400
Trichloroethene (TCE)	1%	1.6E-02	1.7E-02	4.1E-02	1.2	120	70
	2.5%	3.4E-02	3.6E-02	9.1E-02	2.6	120	91
	6%	7.5E-02	8.0E-02	0.21	5.7	120	120
Trichloromethane (chloroform)	1%	0.91	1.2	0.42	99	2,500	2,600
	2.5%	1.7	2.1	0.83	170	2,500	2,800
	6%	3.4	4.2	1.7	350	2,500	3,100
Chloroethene (vinyl chloride)	1%	6.4E-04	7.7E-04	5.5E-04	5.9E-02	3.5	4.8
	2.5%	8.7E-04	1.0E-03	1.0E-03	7.7E-02	3.5	5.0
	6%	1.4E-03	1.5E-03	1.8E-03	0.12	3.5	5.4
2,4,6-Trinitrotoluene (TNT)	1%	1.6	65	0.24	1,000	130	260
	2.5%	3.7	66	0.58	1,000	130	270
	6%	8.1	66	1.4	1,000	130	270
RDX	1%	120	13,000	17	210,000	26,000	49,000 (18.7) ^{sol}
	2.5%	250	13,000	38	210,000	26,000	51,000
	6%	540	13,000	85	210,000	27,000	53,000
HMX	1%	5.7	6,700	0.86	110,000	13,000	23,000 (0.35) ^{vap}
	2.5%	13	6,700	1.9	110,000	13,000	23,000 (0.39) ^{vap}
	6%	26	6,700	3.9	110,000	13,000	24,000 (0.48) ^{vap}
Aldrin	1%	5.7	7.3	3.2	170	18	30
	2.5%	6.6	7.4	6.1	170	18	31
	6%	7.1	7.5	9.8	170	18	31
Dieldrin	1%	0.97	7.0	0.17	170	18	30
	2.5%	2.0	7.3	0.41	170	18	30
	6%	3.5	7.4	0.96	170	18	31
Atrazine	1%	3.3	610	0.5	9,300	1,200	2,300
	2.5%	7.8	620	1.2	9,400	1,200	2,400
	6%	17.4	620	2.7	9,400	1,200	2,400
Dichlorvos	1%	3.2E-02	6.4	4.9E-03	140	16	26
	2.5%	6.6E-02	6.5	1.0E-02	140	16	26
	6%	0.14	6.6	2.2E-02	140	16	27
Endosulfans (2 isomers)	1%	7.4	160 (3.0E-03) ^{vap}	1.2	5,600 (3.0E-03) ^{vap}	1,200	2,300
	2.5%	18	280 (7.0E-03) ^{vap}	2.9	7,400 (7.0E-03) ^{vap}	1,200	2,400
	6%	41	410 (1.6E-02) ^{vap}	6.8	8,400 (1.6E-02) ^{vap}	1,200	2,500
Hexachlorocyclohexane (3 isomers), inc Lindane	1%	8.5E-02	3.7	1.3E-02	65	8.1	15
	2.5%	0.2	3.8	3.2E-02	65	8.1	15
	6%	0.46	3.8	7.7E-02	65	8.1	16

NOTES

^{sol} / ^{vap} = solubility / vapour limit (potentially use if free product identified, although highly conservative).

All GAC are based on sandy loam soils with a pH 7.

LQM Generic Assessment Criteria (mg/kg) Dry weight soil

Contaminant	SOM	Res +	Res -	Allot.	Comm.	POS _{resi}	POS _{park}	
Chlorobenzenes	Chlorobenzene	1%	0.46	0.46	5.9	56	11,000	1,300 (675) ^{sol}
		2.5%	1.0	1.0	14	130	13,000	2,000 (1,520) ^{sol}
		6%	2.4	2.4	32	290	14,000	2,900
	Dichlorobenzenes (3 isomers)	1%	23	24	94	2,000 (571) ^{sol}	90,000	24,000 (571) ^{sol}
		2.5%	55	57	230	4,800 (1,370) ^{sol}	95,000	36,000 (1,370) ^{sol}
		6%	130	130	540	11,000 (3,240) ^{sol}	98,000	51,000 (3,270) ^{sol}
	Trichlorobenzenes (3 isomers)	1%	2.6	2.6	55	220	15,000	1,700 (318) ^{vap}
		2.5%	6.4	6.4	140	530	17,000	2,600 (786) ^{vap}
		6%	15	15	320	1,300	19,000	4,000 (1,880) ^{vap}
	Tetrachlorobenzenes (3 isomers)	1%	0.66	0.75	0.38	49 (39.4) ^{vap}	78	110 (39) ^{vap}
		2.5%	1.6	1.9	0.90	120 (98.1) ^{vap}	79	120
		6%	3.7	4.3	2.2	240 (235) ^{vap}	79	130
	Pentachlorobenzene	1%	5.8	19	1.2	640 (43.0) ^{sol}	100	190
		2.5%	12	30	3.1	770 (107) ^{sol}	100	190
		6%	22	38	7.0	830	100	190
	Hexachlorobenzene	1%	1.8 (0.20) ^{vap}	4.1 (0.20) ^{vap}	0.47	110 (0.20) ^{vap}	16	30
		2.5%	3.3 (0.50) ^{vap}	5.7 (0.50) ^{vap}	1.1	120	16	30
		6%	4.9	6.7 (1.2) ^{vap}	2.5	120	16	30
Chlorophenol	Chlorophenols (4 congeners)	1%	0.87 ^g	94	0.13 ^g	3,500	620	1,100
		2.5%	2.0	150	0.30	4,000	620	1,100
		6%	4.5	210	0.70	4,300	620	1,100
	Pentachlorophenol	1%	0.22	27 (16.4) ^{vap}	3.0E-02	400	60	110
		2.5%	0.52	29	8.0E-02	400	60	120
		6%	1.2	31	0.19	400	60	120
Others	Carbon Disulphide	1%	0.14	0.14	4.8	11	11,000	1,300
		2.5%	0.29	0.29	10	22	11,000	1,900
		6%	0.62	0.62	23	47	11,000	2,700
	Hexachlorobutadiene	1%	0.29	0.32	0.25	31	25	48
		2.5%	0.7	0.78	0.61	66	25	50
		6%	1.6	1.8	1.4	120	25	51
	Phenol	1%	280	750	66	760 ^{dir} (31,000)	760 ^{dir} (11,000)	760 ^{dir} (8,600)
		2.5%	550	1,300	140	1,500 ^{dir} (35,000)	1,500 ^{dir} (11,000)	1,500 ^{dir} (9,700)
		6%	1,100	2,300	280	3,200 ^{dir} (37,000)	3,200 ^{dir} (11,000)	3,200 ^{dir} (11,000)

NOTES

^{sol / vap} = solubility / vapour limit (potentially use if free product identified, although highly conservative).

^{dir} = S4uls based on threshold protective of direct skin contact with phenol (brackets long term exposure for illustration purposes).

^g = derived based on 2,3,4,6-tetrachlorophenol.

Appendix H

Hazard Index Spreadsheet

$$HI = \sum_{i=1}^{16} HQ_i = \frac{\text{Measured concentration } F_i \text{ (mg/kg)}}{SGV/GAC \text{ } F_i \text{ (mg/kg)}}$$

where: HI = Hazard Index
 HQ = Hazard Quotient
 F_i = Fraction I
 SGV/GAC = Soil Guideline Value or Generic Assessment Criteria

Residential with Plant Uptake Land Use

Job: Bams Lane, Dunham Massey
 Job No.: LKC 19 1314
 SOM: 0%
 Comment: Based upon the highest concentrations (V/S1D4) as a conservative measure.

Sample number	MAX or U
Depth	
Aliphatic	
EC5-EC8	1
EC6-EC8	1
EC8-EC10	96
EC10-EC12	250
EC12-EC16	370
EC16-EC21	320
EC21-EC35	160
EC35-EC44	1
Aromatic	
EC5-EC7 (benzene)	1
EC7-EC8 (toluene)	1
EC8-EC10	1
EC10-EC12	9.9
EC12-EC16	100
EC16-EC21	52
EC21-EC35	78
EC35-EC44	1

Residential With Plant Uptake

	1%	2.5%	5%	Max Soil concn.	HQ	HQ	HQ
	SGV/SSV	SGV/GAC	SGV/SSV		(1% SOM)	(2.5% SOM)	(5% SOM)
Aliphatic							
EC5-EC8	42	78	160	1	0.0280365	0.01282051	0.00625
EC6-EC8	100	230	620	1	0.01	0.00494768	0.00188679
EC8-EC10	27	85	150	89	3.2555558	1.47682308	0.64
EC10-EC12	130	380	760	280	1.8230789	0.78787878	0.32894737
EC12-EC16	1100	2400	4900	370	0.2983838	0.16418867	0.0804851
EC16-EC21	68000	82000	110000	160	0.0024916	0.00173618	0.00146488
EC21-EC35	65000	82000	110000	1	1.638E-05	1.087E-05	9.090E-05
Aromatic							
EC5-EC7 (benzene)	70	140	300	1	0.0142857	0.00714286	0.00333333
EC7-EC8 (toluene)	130	280	680	1	0.0076923	0.00446229	0.00161616
EC8-EC10	34	89	160	1	0.0294118	0.01204919	0.00526316
EC10-EC12	74	180	380	9.9	0.1337838	0.055	0.0280282
EC12-EC16	140	330	680	100	0.7142857	0.3030303	0.16161616
EC16-EC21	280	580	850	52	0.2	0.0862863	0.0551388
EC21-EC35	1100	1600	1700	78	0.0708091	0.052	0.0488228
EC35-EC44	1100	1600	1700	1	0.0000091	0.0000067	0.0000024

HI	7.02	2.84	1.36
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Appendix I

HazWaste Online Classification Report

Waste Classification Report



CKMN5-KTH26-9STUC

Job name

LKC 19 1314

Description/Comments

Project

LKC 19 1314

Site

Barns Lane, Dunham Massey

Related Documents

#	Name	Description
1	HWOL-19-25162-20190731 134542.hwol	.hwol file used to create the Job
2	HWOL-19-24724-20190726 173404.hwol	.hwol file used to create the Job

Waste Stream Template

Waste Stream template not used when importing the .hwol file

Classified by

Name: Peter Dunn	Company: LK Group
Date: 31 Jul 2019 16:27 GMT	Unit 29, Eton Business Park
Telephone: 0161 763 7200	Eton Hill Rd, Radcliffe
	Manchester
	M26 2ZS

Report

Created by: Peter Dunn
Created date: 31 Jul 2019 16:27 GMT


Job summary

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
1	WS101-862359-19/07/2019-0.40	0.40-1.00	Non Hazardous		3
2	WS101-862360-19/07/2019-1.20	1.20-2.00	Non Hazardous		5
3	WS102-862361-19/07/2019-0.25	0.25-1.00	Non Hazardous		6
4	WS103-862363-19/07/2019-0.30	0.30-0.80	Non Hazardous		9
5	WS103-862364-19/07/2019-0.80	0.80-1.80	Non Hazardous		11
6	WS104-862365-19/07/2019-0.20	0.20-0.60	Non Hazardous		12
7	WS104-862366-19/07/2019-0.60	0.60-1.60	Non Hazardous		14
8	WS104-862367-19/07/2019-2.90	2.90-3.90	Non Hazardous		15
9	WS105-862369-19/07/2019-0.60	0.60-1.60	Non Hazardous		17
10	WS106-862370-19/07/2019-0.20	0.20-0.80	Non Hazardous		19

#	Sample Name	Depth [m]	Classification Result	Hazard properties	Page
11	WS107f-862372-19/07/2019-0.00	0.00-0.90	Non Hazardous		21
12	WS107f-862373-19/07/2019-1.00	1.00-2.00	Non Hazardous		23
13	WS108-862374-19/07/2019-0.30	0.30-1.30	Non Hazardous		24
14	HD101-862377-19/07/2019-0.40	0.40-0.80	Non Hazardous		26
15	HD101-862378-19/07/2019-0.80	0.80-1.00	Non Hazardous		28
16	TP101-864057-24/07/2019-0.50	0.50	Non Hazardous		29
17	TP102-864059-24/07/2019-0.50	0.50	Non Hazardous		32
18	TP102-864060-24/07/2019-1.50	1.50	Non Hazardous		34
19	TP103-864061-24/07/2019-0.40	0.40	Non Hazardous		35
20	TP104-864063-24/07/2019-0.30	0.30	Non Hazardous		37
21	TP104-864065-24/07/2019-1.50	1.50	Non Hazardous		39
22	TP105-864066-24/07/2019-0.50	0.50	Hazardous	HP 5, HP 7	40
23	TP105-864067-24/07/2019-1.50	1.50	Non Hazardous		43
24	TP106-864068-24/07/2019-0.50	0.50	Non Hazardous		44
25	TP107-864069-24/07/2019-0.50	0.50	Non Hazardous		46
26	TP107-864070-24/07/2019-1.00	1.00	Non Hazardous		52
27	TP107-864071-24/07/2019-1.50	1.50	Non Hazardous		53

Appendices	Page
Appendix A: Classifier defined and non CLP determinands	54
Appendix B: Rationale for selection of metal species	58
Appendix C: Version	58

Classification of sample: WS101-862359-19/07/2019-0.40

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

Sample details

Sample Name: WS101-862359-19/07/2019-0.40	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.40-1.00 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 6.4% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 6.4% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				14 mg/kg	1.32	17.302 mg/kg	0.00173 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.36 mg/kg	1.142	0.385 mg/kg	0.0000385 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide }				12 mg/kg	1.462	16.416 mg/kg	0.00164 %	✓	
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	copper { dicopper oxide; copper (I) oxide }				23 mg/kg	1.126	24.238 mg/kg	0.00242 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
6	lead { lead chromate }			1	49 mg/kg	1.56	71.539 mg/kg	0.00459 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
7	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
8	nickel { nickel chromate }				17 mg/kg	2.976	47.358 mg/kg	0.00474 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<LOD
	034-002-00-8									
10	zinc { zinc chromate }				51 mg/kg	2.774	132.427 mg/kg	0.0132 %	✓	
	024-007-00-3									
11	pH				11.1 pH		11.1 pH	11.1 pH		
			PH							
12	naphthalene				0.56 mg/kg		0.524 mg/kg	0.0000524 %	✓	
	601-052-00-2	202-049-5	91-20-3							
13	acenaphthylene				0.28 mg/kg		0.262 mg/kg	0.0000262 %	✓	
		205-917-1	208-96-8							
14	acenaphthene				2 mg/kg		1.872 mg/kg	0.000187 %	✓	
		201-469-6	83-32-9							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	fluorene	201-695-5	86-73-7		2.5 mg/kg		2.34 mg/kg	0.000234 %	✓	
16	phenanthrene	201-581-5	85-01-8		18 mg/kg		16.848 mg/kg	0.00168 %	✓	
17	anthracene	204-371-1	120-12-7		5.2 mg/kg		4.867 mg/kg	0.000487 %	✓	
18	fluoranthene	205-912-4	206-44-0		20 mg/kg		18.72 mg/kg	0.00187 %	✓	
19	pyrene	204-927-3	129-00-0		16 mg/kg		14.976 mg/kg	0.0015 %	✓	
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	8.5 mg/kg		7.956 mg/kg	0.000796 %	✓	
21	chrysene	601-048-00-0	205-923-4	218-01-9	8.7 mg/kg		8.143 mg/kg	0.000814 %	✓	
22	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	9.3 mg/kg		8.705 mg/kg	0.00087 %	✓	
23	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	3.4 mg/kg		3.182 mg/kg	0.000318 %	✓	
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	5.4 mg/kg		5.054 mg/kg	0.000505 %	✓	
25	indeno[123-cd]pyrene	205-893-2	193-39-5		4.6 mg/kg		4.306 mg/kg	0.000431 %	✓	
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.48 mg/kg		0.449 mg/kg	0.0000449 %	✓	
27	benzo[ghi]perylene	205-883-8	191-24-2		4.6 mg/kg		4.306 mg/kg	0.000431 %	✓	
28	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1	19 mg/kg	1.785	31.748 mg/kg	0.00317 %	✓	
Total:								0.042 %		

Key

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

Classification of sample: WS101-862360-19/07/2019-1.20

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

Sample details

Sample Name:	LoW Code:	
WS101-862360-19/07/2019-1.20	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)
1.20-2.00 m		
Moisture content:		
16%		
(wet weight correction)		

Hazard properties

None identified

Determinands


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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	●	pH			7.9 pH		7.9 pH	7.9 pH		
							Total:	0%		

Key

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

Classification of sample: WS102-862361-19/07/2019-0.25

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

Sample details

Sample Name:	LoW Code:	
WS102-862361-19/07/2019-0.25	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)
0.25-1.00 m		
Moisture content:		
8%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 8% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				13 mg/kg	1.32	15.791 mg/kg	0.00158 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				0.54 mg/kg	1.142	0.568 mg/kg	0.0000568 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide }				7.8 mg/kg	1.462	10.488 mg/kg	0.00105 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }				11 mg/kg	1.126	11.394 mg/kg	0.00114 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	32 mg/kg	1.56	45.921 mg/kg	0.00294 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				13 mg/kg	2.976	35.596 mg/kg	0.00356 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<LOD
	034-002-00-8									
11	zinc { zinc chromate }				44 mg/kg	2.774	112.297 mg/kg	0.0112 %	✓	
	024-007-00-3									
12	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
13	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
14	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
15	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
16	xylene				0.0087 mg/kg		0.008 mg/kg	0.0000008 %	✓	
	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]							
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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
18	pH				9.3 pH		9.3 pH	9.3 pH		
			PH							
19	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
20	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
21	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
22	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
23	phenanthrene				0.11 mg/kg		0.101 mg/kg	0.0000101 %	✓	
		201-581-5	85-01-8							
24	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
25	fluoranthene				0.43 mg/kg		0.396 mg/kg	0.0000396 %	✓	
		205-912-4	206-44-0							
26	pyrene				0.4 mg/kg		0.368 mg/kg	0.0000368 %	✓	
		204-927-3	129-00-0							
27	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
28	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
29	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
30	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
31	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
32	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
33	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
34	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
35	vanadium { divanadium pentaoxide; vanadium pentoxide }				10 mg/kg	1.785	16.424 mg/kg	0.00164 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
Total:								0.0238 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Concentrations at less than 1.0% are "unlikely to be flammable". Flammability of soils is unlikely to result in a hazardous classification in soils (AGS Waste Classification – A Practitioner's Guide).


Hazard Statements hit:

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

Because of determinand:

xylene: (conc.: 8.0e-07%)

Classification of sample: WS103-862363-19/07/2019-0.30

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

Sample details

Sample Name:	LoW Code:	
WS103-862363-19/07/2019-0.30	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)
0.30-0.80 m		
Moisture content:		
21%		
(wet weight correction)		

Hazard properties

None identified

Determinands

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


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				12 mg/kg	1.32	12.517 mg/kg	0.00125 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.34 mg/kg	1.142	0.307 mg/kg	0.0000307 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide }				19 mg/kg	1.462	21.938 mg/kg	0.00219 %	✓	
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	copper { dicopper oxide; copper (I) oxide }				41 mg/kg	1.126	36.468 mg/kg	0.00365 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
6	lead { lead chromate }			1	78 mg/kg	1.56	96.116 mg/kg	0.00616 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
7	mercury { mercury dichloride }				0.21 mg/kg	1.353	0.225 mg/kg	0.0000225 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
8	nickel { nickel chromate }				18 mg/kg	2.976	42.322 mg/kg	0.00423 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.55 mg/kg	2.554	1.11 mg/kg	0.000111 %	✓	
	034-002-00-8									
10	zinc { zinc chromate }				82 mg/kg	2.774	179.709 mg/kg	0.018 %	✓	
	024-007-00-3									
11	pH				8.3 pH		8.3 pH	8.3 pH		
			PH							
12	naphthalene				0.37 mg/kg		0.292 mg/kg	0.0000292 %	✓	
	601-052-00-2	202-049-5	91-20-3							
13	acenaphthylene				0.11 mg/kg		0.0869 mg/kg	0.00000869 %	✓	
		205-917-1	208-96-8							
14	acenaphthene				0.67 mg/kg		0.529 mg/kg	0.0000529 %	✓	
		201-469-6	83-32-9							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	fluorene	201-695-5	86-73-7		0.92 mg/kg		0.727 mg/kg	0.0000727 %	✓	
16	phenanthrene	201-581-5	85-01-8		12 mg/kg		9.48 mg/kg	0.000948 %	✓	
17	anthracene	204-371-1	120-12-7		3.8 mg/kg		3.002 mg/kg	0.0003 %	✓	
18	fluoranthene	205-912-4	206-44-0		25 mg/kg		19.75 mg/kg	0.00198 %	✓	
19	pyrene	204-927-3	129-00-0		21 mg/kg		16.59 mg/kg	0.00166 %	✓	
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	12 mg/kg		9.48 mg/kg	0.000948 %	✓	
21	chrysene	601-048-00-0	205-923-4	218-01-9	11 mg/kg		8.69 mg/kg	0.000869 %	✓	
22	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	15 mg/kg		11.85 mg/kg	0.00119 %	✓	
23	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	5.6 mg/kg		4.424 mg/kg	0.000442 %	✓	
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	8 mg/kg		6.32 mg/kg	0.000632 %	✓	
25	indeno[123-cd]pyrene	205-893-2	193-39-5		8 mg/kg		6.32 mg/kg	0.000632 %	✓	
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.89 mg/kg		0.703 mg/kg	0.0000703 %	✓	
27	benzo[ghi]perylene	205-883-8	191-24-2		7 mg/kg		5.53 mg/kg	0.000553 %	✓	
28	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1	31 mg/kg	1.785	43.719 mg/kg	0.00437 %	✓	
Total:								0.0505 %		

Key

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

Classification of sample: **WS103-862364-19/07/2019-0.80**

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

Sample details

Sample Name: WS103-862364-19/07/2019-0.80	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.80-1.80 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 19% (wet weight correction)		

Hazard properties

None identified

Determinands


Moisture content: 19% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	pH				8.2 pH		8.2 pH	8.2 pH		
Total:								0%		

Key

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

Classification of sample: WS104-862365-19/07/2019-0.20

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

Sample details

Sample Name: WS104-862365-19/07/2019-0.20	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.20-0.60 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 22% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 22% Wet Weight Moisture Correction applied (MC)


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				13 mg/kg	1.32	13.388 mg/kg	0.00134 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				0.78 mg/kg	3.22	1.959 mg/kg	0.000196 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				0.32 mg/kg	1.142	0.285 mg/kg	0.0000285 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide }				13 mg/kg	1.462	14.82 mg/kg	0.00148 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }				37 mg/kg	1.126	32.493 mg/kg	0.00325 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	80 mg/kg	1.56	97.332 mg/kg	0.00624 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				0.29 mg/kg	1.353	0.306 mg/kg	0.0000306 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				13 mg/kg	2.976	30.179 mg/kg	0.00302 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.42 mg/kg	2.554	0.837 mg/kg	0.0000837 %	✓	
	034-002-00-8									
11	zinc { zinc chromate }				82 mg/kg	2.774	177.434 mg/kg	0.0177 %	✓	
	024-007-00-3									
12	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
13	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
14	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
15	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
16	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
18	pH				7.3 pH		7.3 pH	7.3 pH		
			PH							
19	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
20	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
21	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
22	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
23	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
24	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
25	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
26	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
27	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
28	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
29	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
30	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
31	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
32	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
33	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
34	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
35	vanadium { divanadium pentaoxide; vanadium pentoxide }				19 mg/kg	1.785	26.456 mg/kg	0.00265 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
Total:								0.0364 %		

Key

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

Classification of sample: WS104-862366-19/07/2019-0.60

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

Sample details

Sample Name: WS104-862366-19/07/2019-0.60	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.60-1.60 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 17% (wet weight correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X 216-653-1 1634-04-4				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
2	benzene 601-020-00-8 200-753-7 71-43-2				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
3	toluene 601-021-00-3 203-625-9 108-88-3				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
4	ethylbenzene 601-023-00-4 202-849-4 100-41-4				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
5	xylene 601-022-00-9 202-422-2 [1] 95-47-6 [1] 203-396-5 [2] 106-42-3 [2] 203-576-3 [3] 108-38-3 [3] 215-535-7 [4] 1330-20-7 [4]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
Total:								6.0e-07 %		

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)
- <LOD** Below limit of detection

Classification of sample: WS104-862367-19/07/2019-2.90

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

Sample details

Sample Name:	LoW Code:	
WS104-862367-19/07/2019-2.90	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)
2.90-3.90 m		
Moisture content:		
19%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 19% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
2	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
3	toluene				0.0085 mg/kg		0.0068 mg/kg	0.000000689 %	✔	
	601-021-00-3	203-625-9	108-88-3							
4	ethylbenzene				0.0026 mg/kg		0.0021 mg/kg	0.000000211 %	✔	
	601-023-00-4	202-849-4	100-41-4							
5	xylene				0.0049 mg/kg		0.0039 mg/kg	0.000000397 %	✔	
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
Total:								1.5e-06 %		

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)
- <LOD Below limit of detection

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 Concentrations at less than 1.0% are "unlikely to be flammable". Flammability of soils is unlikely to result in a hazardous classification in soils (AGS Waste Classification – A Practitioner's Guide).

Hazard Statements hit:

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

Because of determinands:

toluene: (conc.: 6.89e-07%)


ethylbenzene: (conc.: 2.11e-07%)

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

Because of determinand:

xylene: (conc.: 3.97e-07%)

Classification of sample: WS105-862369-19/07/2019-0.60

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

Sample details

Sample Name: WS105-862369-19/07/2019-0.60	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.60-1.60 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 14% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				1.1 mg/kg	1.32	1.249 mg/kg	0.000125 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide }				2.5 mg/kg	1.462	3.142 mg/kg	0.000314 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }				1.3 mg/kg	1.126	1.259 mg/kg	0.000126 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	2.3 mg/kg	1.56	3.085 mg/kg	0.000198 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				2.7 mg/kg	2.976	6.911 mg/kg	0.000691 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<LOD
	034-002-00-8									
11	zinc { zinc chromate }				11 mg/kg	2.774	26.243 mg/kg	0.00262 %	✓	
	024-007-00-3									
12	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
13	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
14	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
15	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
16	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
18	pH				7.3 pH		7.3 pH	7.3 pH		
			PH							
19	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
20	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
21	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
22	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
23	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
24	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
25	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
26	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
27	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
28	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
29	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
30	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
31	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
32	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
33	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
34	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
35	vanadium { divanadium pentaoxide; vanadium pentoxide }				6.4 mg/kg	1.785	9.826 mg/kg	0.000983 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
Total:								0.00562 %		

Key

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

Classification of sample: WS106-862370-19/07/2019-0.20

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

Sample details

Sample Name:	LoW Code:	
WS106-862370-19/07/2019-0.20	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)
0.20-0.80 m		
Moisture content:		
23%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 23% Wet Weight Moisture Correction applied (MC)


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				15 mg/kg	1.32	15.25 mg/kg	0.00152 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.37 mg/kg	1.142	0.325 mg/kg	0.0000325 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide }				18 mg/kg	1.462	20.257 mg/kg	0.00203 %	✓	
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	copper { dicopper oxide; copper (I) oxide }				49 mg/kg	1.126	42.48 mg/kg	0.00425 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
6	lead { lead chromate }			1	98 mg/kg	1.56	117.704 mg/kg	0.00755 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
7	mercury { mercury dichloride }				0.3 mg/kg	1.353	0.313 mg/kg	0.0000313 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
8	nickel { nickel chromate }				19 mg/kg	2.976	43.543 mg/kg	0.00435 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.47 mg/kg	2.554	0.924 mg/kg	0.0000924 %	✓	
	034-002-00-8									
10	zinc { zinc chromate }				93 mg/kg	2.774	198.657 mg/kg	0.0199 %	✓	
	024-007-00-3									
11	pH				7.3 pH		7.3 pH	7.3 pH		
			PH							
12	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
13	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
14	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	fluorene	201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
16	phenanthrene	201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
17	anthracene	204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
18	fluoranthene	205-912-4	206-44-0		1.3 mg/kg		1.001 mg/kg	0.0001 %	✓	
19	pyrene	204-927-3	129-00-0		1.2 mg/kg		0.924 mg/kg	0.0000924 %	✓	
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.19 mg/kg		0.146 mg/kg	0.0000146 %	✓	
21	chrysene	601-048-00-0	205-923-4	218-01-9	0.16 mg/kg		0.123 mg/kg	0.0000123 %	✓	
22	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24	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
25	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26	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
27	benzo[ghi]perylene	205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
28	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1	24 mg/kg	1.785	32.99 mg/kg	0.0033 %	✓	
Total:								0.0435 %		

Key

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

Classification of sample: WS107f-862372-19/07/2019-0.00

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

Sample details

Sample Name: WS107f-862372-19/07/2019-0.00	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.00-0.90 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 9.1% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 9.1% Wet Weight Moisture Correction applied (MC)


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				11 mg/kg	1.32	13.202 mg/kg	0.00132 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.31 mg/kg	1.142	0.322 mg/kg	0.0000322 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide }				10 mg/kg	1.462	13.286 mg/kg	0.00133 %	✓	
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	copper { dicopper oxide; copper (I) oxide }				22 mg/kg	1.126	22.516 mg/kg	0.00225 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
6	lead { lead chromate }			1	45 mg/kg	1.56	63.804 mg/kg	0.00409 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
7	mercury { mercury dichloride }				0.16 mg/kg	1.353	0.197 mg/kg	0.0000197 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
8	nickel { nickel chromate }				11 mg/kg	2.976	29.76 mg/kg	0.00298 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<LOD
	034-002-00-8									
10	zinc { zinc chromate }				38 mg/kg	2.774	95.825 mg/kg	0.00958 %	✓	
	024-007-00-3									
11	pH				9.2 pH		9.2 pH	9.2 pH		
			PH							
12	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
13	acenaphthylene				0.56 mg/kg		0.509 mg/kg	0.0000509 %	✓	
		205-917-1	208-96-8							
14	acenaphthene				0.98 mg/kg		0.891 mg/kg	0.0000891 %	✓	
		201-469-6	83-32-9							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	fluorene	201-695-5	86-73-7		1.8 mg/kg		1.636 mg/kg	0.000164 %	✓	
16	phenanthrene	201-581-5	85-01-8		13 mg/kg		11.817 mg/kg	0.00118 %	✓	
17	anthracene	204-371-1	120-12-7		4 mg/kg		3.636 mg/kg	0.000364 %	✓	
18	fluoranthene	205-912-4	206-44-0		12 mg/kg		10.908 mg/kg	0.00109 %	✓	
19	pyrene	204-927-3	129-00-0		9.3 mg/kg		8.454 mg/kg	0.000845 %	✓	
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	4.4 mg/kg		4 mg/kg	0.0004 %	✓	
21	chrysene	601-048-00-0	205-923-4	218-01-9	3.8 mg/kg		3.454 mg/kg	0.000345 %	✓	
22	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	3.3 mg/kg		3 mg/kg	0.0003 %	✓	
23	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.98 mg/kg		0.891 mg/kg	0.0000891 %	✓	
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	1.5 mg/kg		1.364 mg/kg	0.000136 %	✓	
25	indeno[123-cd]pyrene	205-893-2	193-39-5		1.3 mg/kg		1.182 mg/kg	0.000118 %	✓	
26	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
27	benzo[ghi]perylene	205-883-8	191-24-2		1.1 mg/kg		1.0 mg/kg	0.0001 %	✓	
28	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1	15 mg/kg	1.785	24.341 mg/kg	0.00243 %	✓	
Total:								0.0295 %		

Key

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

Classification of sample: **WS107f-862373-19/07/2019-1.00**

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

Sample details


Sample Name: WS107f-862373-19/07/2019-1.00	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 1.00-2.00 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 14% (wet weight correction)		

Hazard properties

None identified

Determinands


Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	 pH				8.1 pH		8.1 pH	8.1 pH		
Total:								0%		

Key

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

Classification of sample: WS108-862374-19/07/2019-0.30

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

Sample details

Sample Name: WS108-862374-19/07/2019-0.30	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.30-1.30 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 24% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 24% Wet Weight Moisture Correction applied (MC)


#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				13	mg/kg	1.32	13.045	mg/kg	0.0013 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium oxide }				0.14	mg/kg	1.142	0.122	mg/kg	0.0000122 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
3	chromium in chromium(III) compounds { chromium(III) oxide }				41	mg/kg	1.462	45.542	mg/kg	0.00455 %	✓	
		215-160-9	1308-38-9									
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5	mg/kg	1.923	<0.962	mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
5	copper { dicopper oxide; copper (I) oxide }				25	mg/kg	1.126	21.392	mg/kg	0.00214 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
6	lead { lead chromate }			1	24	mg/kg	1.56	28.451	mg/kg	0.00182 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
7	mercury { mercury dichloride }				<0.1	mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7									
8	nickel { nickel chromate }				49	mg/kg	2.976	110.836	mg/kg	0.0111 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.2	mg/kg	2.554	<0.511	mg/kg	<0.0000511 %		<LOD
	034-002-00-8											
10	zinc { zinc chromate }				60	mg/kg	2.774	126.501	mg/kg	0.0127 %	✓	
	024-007-00-3											
11	pH				8.2	pH		8.2	pH	8.2 pH		
12	naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
13	acenaphthylene				0.28	mg/kg		0.213	mg/kg	0.0000213 %	✓	
		205-917-1	208-96-8									
14	acenaphthene				0.22	mg/kg		0.167	mg/kg	0.0000167 %	✓	
		201-469-6	83-32-9									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	fluorene	201-695-5	86-73-7		0.6 mg/kg		0.456 mg/kg	0.0000456 %	✓	
16	phenanthrene	201-581-5	85-01-8		7 mg/kg		5.32 mg/kg	0.000532 %	✓	
17	anthracene	204-371-1	120-12-7		2.2 mg/kg		1.672 mg/kg	0.000167 %	✓	
18	fluoranthene	205-912-4	206-44-0		7.3 mg/kg		5.548 mg/kg	0.000555 %	✓	
19	pyrene	204-927-3	129-00-0		5 mg/kg		3.8 mg/kg	0.00038 %	✓	
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	2.2 mg/kg		1.672 mg/kg	0.000167 %	✓	
21	chrysene	601-048-00-0	205-923-4	218-01-9	1.8 mg/kg		1.368 mg/kg	0.000137 %	✓	
22	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	1.4 mg/kg		1.064 mg/kg	0.000106 %	✓	
23	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.32 mg/kg		0.243 mg/kg	0.0000243 %	✓	
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	0.68 mg/kg		0.517 mg/kg	0.0000517 %	✓	
25	indeno[123-cd]pyrene	205-893-2	193-39-5		0.34 mg/kg		0.258 mg/kg	0.0000258 %	✓	
26	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
27	benzo[ghi]perylene	205-883-8	191-24-2		0.35 mg/kg		0.266 mg/kg	0.0000266 %	✓	
28	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1	43 mg/kg	1.785	58.34 mg/kg	0.00583 %	✓	
Total:								0.0418 %		

Key

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

Classification of sample: HD101-862377-19/07/2019-0.40

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

Sample details

Sample Name: HD101-862377-19/07/2019-0.40	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.40-0.80 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 22% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 22% Wet Weight Moisture Correction applied (MC)


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				16 mg/kg	1.32	16.478 mg/kg	0.00165 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				0.7 mg/kg	3.22	1.758 mg/kg	0.000176 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				0.41 mg/kg	1.142	0.365 mg/kg	0.0000365 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide }				15 mg/kg	1.462	17.1 mg/kg	0.00171 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }				49 mg/kg	1.126	43.031 mg/kg	0.0043 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	180 mg/kg	1.56	218.998 mg/kg	0.014 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				0.36 mg/kg	1.353	0.38 mg/kg	0.000038 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				16 mg/kg	2.976	37.144 mg/kg	0.00371 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.43 mg/kg	2.554	0.856 mg/kg	0.0000856 %	✓	
	034-002-00-8									
11	zinc { zinc chromate }				93 mg/kg	2.774	201.237 mg/kg	0.0201 %	✓	
	024-007-00-3									
12	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
13	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
14	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
15	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
16	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
18	pH				7.7 pH		7.7 pH	7.7 pH		
			PH							
19	naphthalene				0.19 mg/kg		0.148 mg/kg	0.0000148 %	✓	
	601-052-00-2	202-049-5	91-20-3							
20	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
21	acenaphthene				0.14 mg/kg		0.109 mg/kg	0.0000109 %	✓	
		201-469-6	83-32-9							
22	fluorene				0.13 mg/kg		0.101 mg/kg	0.0000101 %	✓	
		201-695-5	86-73-7							
23	phenanthrene				4.5 mg/kg		3.51 mg/kg	0.000351 %	✓	
		201-581-5	85-01-8							
24	anthracene				0.75 mg/kg		0.585 mg/kg	0.0000585 %	✓	
		204-371-1	120-12-7							
25	fluoranthene				5.9 mg/kg		4.602 mg/kg	0.00046 %	✓	
		205-912-4	206-44-0							
26	pyrene				4.8 mg/kg		3.744 mg/kg	0.000374 %	✓	
		204-927-3	129-00-0							
27	benzo[a]anthracene				1.7 mg/kg		1.326 mg/kg	0.000133 %	✓	
	601-033-00-9	200-280-6	56-55-3							
28	chrysene				1.9 mg/kg		1.482 mg/kg	0.000148 %	✓	
	601-048-00-0	205-923-4	218-01-9							
29	benzo[b]fluoranthene				1.5 mg/kg		1.17 mg/kg	0.000117 %	✓	
	601-034-00-4	205-911-9	205-99-2							
30	benzo[k]fluoranthene				0.39 mg/kg		0.304 mg/kg	0.0000304 %	✓	
	601-036-00-5	205-916-6	207-08-9							
31	benzo[a]pyrene; benzo[def]chrysene				0.88 mg/kg		0.686 mg/kg	0.0000686 %	✓	
	601-032-00-3	200-028-5	50-32-8							
32	indeno[123-cd]pyrene				0.64 mg/kg		0.499 mg/kg	0.0000499 %	✓	
		205-893-2	193-39-5							
33	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
34	benzo[ghi]perylene				0.56 mg/kg		0.437 mg/kg	0.0000437 %	✓	
		205-883-8	191-24-2							
35	vanadium { divanadium pentaoxide; vanadium pentoxide }				22 mg/kg	1.785	30.634 mg/kg	0.00306 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
Total:								0.051 %		

Key

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

Classification of sample: HD101-862378-19/07/2019-0.80

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

Sample details

Sample Name: HD101-862378-19/07/2019-0.80	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.80-1.00 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 16% (wet weight correction)		

Hazard properties

None identified

Determinands


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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X 216-653-1 1634-04-4				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
2	benzene 601-020-00-8 200-753-7 71-43-2				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
3	toluene 601-021-00-3 203-625-9 108-88-3				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
4	ethylbenzene 601-023-00-4 202-849-4 100-41-4				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
5	xylene 601-022-00-9 202-422-2 [1] 95-47-6 [1] 203-396-5 [2] 106-42-3 [2] 203-576-3 [3] 108-38-3 [3] 215-535-7 [4] 1330-20-7 [4]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
Total:								6.0e-07 %		

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)
- <LOD Below limit of detection

Classification of sample: TP101-864057-24/07/2019-0.50

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

Sample details

Sample Name:	LoW Code:	
TP101-864057-24/07/2019-0.50	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.50 m		
Moisture content:		
20%		
(wet weight correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				16 mg/kg	1.32	16.9 mg/kg	0.00169 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				1.8 mg/kg	3.22	4.637 mg/kg	0.000464 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				0.39 mg/kg	1.142	0.356 mg/kg	0.0000356 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide }				16 mg/kg	1.462	18.708 mg/kg	0.00187 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }				120 mg/kg	1.126	108.085 mg/kg	0.0108 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	100 mg/kg	1.56	124.785 mg/kg	0.008 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				0.41 mg/kg	1.353	0.444 mg/kg	0.0000444 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				18 mg/kg	2.976	42.858 mg/kg	0.00429 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.46 mg/kg	2.554	0.94 mg/kg	0.000094 %	✓	
	034-002-00-8									
11	zinc { zinc chromate }				94 mg/kg	2.774	208.616 mg/kg	0.0209 %	✓	
	024-007-00-3									
12	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				0.019 mg/kg		0.0152 mg/kg	0.00000152 %	✓	
	603-181-00-X	216-653-1	1634-04-4							
13	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
14	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
15	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
16	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
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 }				12 mg/kg	1.884	18.086 mg/kg	0.00181 %	✓	
	006-007-00-5									
18	pH				7.4 pH		7.4 pH	7.4 pH		
			PH							
19	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
20	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
21	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
22	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
23	phenanthrene				0.48 mg/kg		0.384 mg/kg	0.0000384 %	✓	
		201-581-5	85-01-8							
24	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
25	fluoranthene				0.62 mg/kg		0.496 mg/kg	0.0000496 %	✓	
		205-912-4	206-44-0							
26	pyrene				0.62 mg/kg		0.496 mg/kg	0.0000496 %	✓	
		204-927-3	129-00-0							
27	benzo[a]anthracene				0.2 mg/kg		0.16 mg/kg	0.000016 %	✓	
	601-033-00-9	200-280-6	56-55-3							
28	chrysene				0.2 mg/kg		0.16 mg/kg	0.000016 %	✓	
	601-048-00-0	205-923-4	218-01-9							
29	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
30	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
31	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
32	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
33	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
34	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
35	vanadium { divanadium pentaoxide; vanadium pentoxide }				21 mg/kg	1.785	29.991 mg/kg	0.003 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
Total:								0.0533 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Concentrations at less than 1.0% are "unlikely to be flammable". Flammability of soils is unlikely to result in a hazardous classification in soils (AGS Waste Classification – A Practitioner's Guide).


Hazard Statements hit:

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

Because of determinand:

tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane: (conc.: 1.52e-06%)

Classification of sample: TP102-864059-24/07/2019-0.50

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

Sample details

Sample Name:	LoW Code:	
TP102-864059-24/07/2019-0.50	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.50 m		
Moisture content:		
6.4%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 6.4% Wet Weight Moisture Correction applied (MC)


#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				14	mg/kg	1.32	17.302	mg/kg	0.00173 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	cadmium { cadmium oxide }				0.63	mg/kg	1.142	0.674	mg/kg	0.0000674 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
3	chromium in chromium(III) compounds { chromium(III) oxide }				7.4	mg/kg	1.462	10.123	mg/kg	0.00101 %	✓	
		215-160-9	1308-38-9									
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5	mg/kg	1.923	<0.962	mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0									
5	copper { dicopper oxide; copper (I) oxide }				18	mg/kg	1.126	18.969	mg/kg	0.0019 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
6	lead { lead chromate }			1	54	mg/kg	1.56	78.839	mg/kg	0.00505 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
7	mercury { mercury dichloride }				0.12	mg/kg	1.353	0.152	mg/kg	0.0000152 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
8	nickel { nickel chromate }				11	mg/kg	2.976	30.644	mg/kg	0.00306 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.2	mg/kg	2.554	<0.511	mg/kg	<0.0000511 %		<LOD
	034-002-00-8											
10	zinc { zinc chromate }				59	mg/kg	2.774	153.199	mg/kg	0.0153 %	✓	
	024-007-00-3											
11	pH				8.1	pH		8.1	pH	8.1 pH		
12	naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3									
13	acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8									
14	acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
15	fluorene	201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD	
16	phenanthrene	201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD	
17	anthracene	204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD	
18	fluoranthene	205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD	
19	pyrene	204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD	
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD	
21	chrysene	601-048-00-0	205-923-4	218-01-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD	
22	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD	
23	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD	
24	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	
25	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD	
26	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	
27	benzo[ghi]perylene	205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD	
28	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1	11 mg/kg	1.785	18.38 mg/kg	0.00184 %	✓		
								Total:	0.0303 %		

Key

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

Classification of sample: TP102-864060-24/07/2019-1.50

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

Sample details

Sample Name: TP102-864060-24/07/2019-1.50	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 1.50 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 17% (wet weight correction)		

Hazard properties

None identified

Determinands


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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	pH				8.1 pH		8.1 pH	8.1 pH		
			PH							
Total:								0%		

Key

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

Classification of sample: TP103-864061-24/07/2019-0.40

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

Sample details

Sample Name: TP103-864061-24/07/2019-0.40	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.40 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 7.1% (wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 7.1% Wet Weight Moisture Correction applied (MC)


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				12 mg/kg	1.32	14.719 mg/kg	0.00147 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.48 mg/kg	1.142	0.509 mg/kg	0.0000509 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide }				12 mg/kg	1.462	16.293 mg/kg	0.00163 %	✓	
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	copper { dicopper oxide; copper (I) oxide }				16 mg/kg	1.126	16.735 mg/kg	0.00167 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
6	lead { lead chromate }			1	59 mg/kg	1.56	85.495 mg/kg	0.00548 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
7	mercury { mercury dichloride }				0.15 mg/kg	1.353	0.189 mg/kg	0.0000189 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
8	nickel { nickel chromate }				14 mg/kg	2.976	38.709 mg/kg	0.00387 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<LOD
	034-002-00-8									
10	zinc { zinc chromate }				75 mg/kg	2.774	193.289 mg/kg	0.0193 %	✓	
	024-007-00-3									
11	pH				8.7 pH		8.7 pH	8.7 pH		
			PH							
12	naphthalene				0.46 mg/kg		0.427 mg/kg	0.0000427 %	✓	
	601-052-00-2	202-049-5	91-20-3							
13	acenaphthylene				0.25 mg/kg		0.232 mg/kg	0.0000232 %	✓	
		205-917-1	208-96-8							
14	acenaphthene				0.69 mg/kg		0.641 mg/kg	0.0000641 %	✓	
		201-469-6	83-32-9							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	fluorene	201-695-5	86-73-7		0.67 mg/kg		0.622 mg/kg	0.0000622 %	✓	
16	phenanthrene	201-581-5	85-01-8		8.6 mg/kg		7.989 mg/kg	0.000799 %	✓	
17	anthracene	204-371-1	120-12-7		1.8 mg/kg		1.672 mg/kg	0.000167 %	✓	
18	fluoranthene	205-912-4	206-44-0		15 mg/kg		13.935 mg/kg	0.00139 %	✓	
19	pyrene	204-927-3	129-00-0		14 mg/kg		13.006 mg/kg	0.0013 %	✓	
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	8.4 mg/kg		7.804 mg/kg	0.00078 %	✓	
21	chrysene	601-048-00-0	205-923-4	218-01-9	8.5 mg/kg		7.897 mg/kg	0.00079 %	✓	
22	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	15 mg/kg		13.935 mg/kg	0.00139 %	✓	
23	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	5.5 mg/kg		5.11 mg/kg	0.000511 %	✓	
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	12 mg/kg		11.148 mg/kg	0.00111 %	✓	
25	indeno[123-cd]pyrene	205-893-2	193-39-5		10 mg/kg		9.29 mg/kg	0.000929 %	✓	
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	1.7 mg/kg		1.579 mg/kg	0.000158 %	✓	
27	benzo[ghi]perylene	205-883-8	191-24-2		9 mg/kg		8.361 mg/kg	0.000836 %	✓	
28	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1	18 mg/kg	1.785	29.852 mg/kg	0.00299 %	✓	
29	asbestos	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5	20 mg/kg		18.58 mg/kg	0.00186 %	✓	
Total:								0.0489 %		

Key

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

Classification of sample: TP104-864063-24/07/2019-0.30


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

Sample details

Sample Name:	LoW Code:	
TP104-864063-24/07/2019-0.30	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)
0.30 m		
Moisture content:		
7.7%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 7.7% Wet Weight Moisture Correction applied (MC)


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				15 mg/kg	1.32	18.28	mg/kg	0.00183 %	✓	
	033-003-00-0	215-481-4	1327-53-3								
2	cadmium { cadmium oxide }				0.67 mg/kg	1.142	0.706	mg/kg	0.0000706 %	✓	
	048-002-00-0	215-146-2	1306-19-0								
3	chromium in chromium(III) compounds { chromium(III) oxide }				13 mg/kg	1.462	17.537	mg/kg	0.00175 %	✓	
		215-160-9	1308-38-9								
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962	mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0								
5	copper { dicopper oxide; copper (I) oxide }				32 mg/kg	1.126	33.254	mg/kg	0.00333 %	✓	
	029-002-00-X	215-270-7	1317-39-1								
6	lead { lead chromate }			1	57 mg/kg	1.56	82.063	mg/kg	0.00526 %	✓	
	082-004-00-2	231-846-0	7758-97-6								
7	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135	mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7								
8	nickel { nickel chromate }				14 mg/kg	2.976	38.459	mg/kg	0.00385 %	✓	
	028-035-00-7	238-766-5	14721-18-7								
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.2 mg/kg	2.554	<0.511	mg/kg	<0.0000511 %		<LOD
	034-002-00-8										
10	zinc { zinc chromate }				65 mg/kg	2.774	166.435	mg/kg	0.0166 %	✓	
	024-007-00-3										
11	pH				9.1 pH		9.1	pH	9.1 pH		
			PH								
12	naphthalene				<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3								
13	acenaphthylene				<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8								
14	acenaphthene				<0.1 mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	fluorene	201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
16	phenanthrene	201-581-5	85-01-8		1.1 mg/kg		1.015 mg/kg	0.000102 %	✓	
17	anthracene	204-371-1	120-12-7		0.23 mg/kg		0.212 mg/kg	0.0000212 %	✓	
18	fluoranthene	205-912-4	206-44-0		1.4 mg/kg		1.292 mg/kg	0.000129 %	✓	
19	pyrene	204-927-3	129-00-0		1.2 mg/kg		1.108 mg/kg	0.000111 %	✓	
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	0.96 mg/kg		0.886 mg/kg	0.0000886 %	✓	
21	chrysene	601-048-00-0	205-923-4	218-01-9	1.2 mg/kg		1.108 mg/kg	0.000111 %	✓	
22	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	1.9 mg/kg		1.754 mg/kg	0.000175 %	✓	
23	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	0.53 mg/kg		0.489 mg/kg	0.0000489 %	✓	
24	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	1.1 mg/kg		1.015 mg/kg	0.000102 %	✓	
25	indeno[123-cd]pyrene	205-893-2	193-39-5		1.5 mg/kg		1.384 mg/kg	0.000138 %	✓	
26	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.15 mg/kg		0.138 mg/kg	0.0000138 %	✓	
27	benzo[ghi]perylene	205-883-8	191-24-2		1.4 mg/kg		1.292 mg/kg	0.000129 %	✓	
28	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1	19 mg/kg	1.785	31.307 mg/kg	0.00313 %	✓	
29	asbestos	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5	<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
Total:								0.0382 %		

Key

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

Classification of sample: TP104-864065-24/07/2019-1.50

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

Sample details


Sample Name: TP104-864065-24/07/2019-1.50	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 1.50 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 13% (wet weight correction)		

Hazard properties


None identified

Determinands

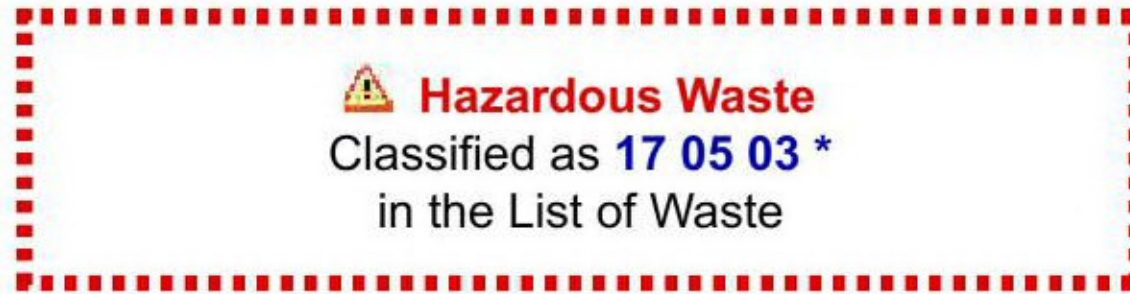
Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	 pH				9.5 pH		9.5 pH	9.5 pH		
Total:								0%		

Key

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

Classification of sample: TP105-864066-24/07/2019-0.50



Sample details

Sample Name:	LoW Code:	
TP105-864066-24/07/2019-0.50	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
0.50 m		
Moisture content:		
9.7%		
(wet weight correction)		

Hazard properties

HP 5: Specific Target Organ Toxicity (STOT)/Aspiration Toxicity "waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration"

Hazard Statements hit:

STOT RE 1; H372 "Causes damage to organs [or state all organs affected, if known] through prolonged or repeated exposure [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

asbestos: (conc.: 1.174%)

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

Hazard Statements hit:

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

Because of determinand:

asbestos: (conc.: 1.174%)

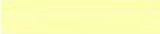




Determinands

Moisture content: 9.7% Wet Weight Moisture Correction applied (MC)


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				14 mg/kg	1.32	16.692 mg/kg	0.00167 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.31 mg/kg	1.142	0.32 mg/kg	0.000032 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide }				13 mg/kg	1.462	17.157 mg/kg	0.00172 %	✓	
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	copper { dicopper oxide; copper (I) oxide }				47 mg/kg	1.126	47.784 mg/kg	0.00478 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
6	lead { lead chromate }			1	91 mg/kg	1.56	128.175 mg/kg	0.00822 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
7	mercury { mercury dichloride }				0.75 mg/kg	1.353	0.917 mg/kg	0.0000917 %	✓	
	080-010-00-X	231-299-8	7487-94-7							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
8	nickel { nickel chromate }				15 mg/kg	2.976	40.314 mg/kg	0.00403 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<LOD
	034-002-00-8									
10	zinc { zinc chromate }				92 mg/kg	2.774	230.465 mg/kg	0.023 %	✓	
	024-007-00-3									
11	pH				10.4 pH		10.4 pH	10.4 pH		
			PH							
12	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
13	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
14	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
15	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
16	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
17	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
18	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
19	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
20	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
21	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
22	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
23	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
24	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
25	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
26	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
27	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
28	vanadium { divanadium pentaoxide; vanadium pentoxide }				19 mg/kg	1.785	30.628 mg/kg	0.00306 %	✓	
	023-001-00-8	215-239-8	1314-62-1							
29	asbestos				13000 mg/kg		11739 mg/kg	1.174 %	✓	
	650-013-00-6	-----	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6 77536-67-5 12001-29-5							
Total:								1.221 %		

Key

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

Classification of sample: TP105-864067-24/07/2019-1.50

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

Sample details


Sample Name: TP105-864067-24/07/2019-1.50	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 1.50 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 15% (wet weight correction)		

Hazard properties

None identified

Determinands


Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	 pH				8.6 pH		8.6 pH	8.6 pH		
Total:								0%		

Key

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

Classification of sample: TP106-864068-24/07/2019-0.50

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

Sample details

Sample Name:	LoW Code:	
TP106-864068-24/07/2019-0.50	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.50 m		
Moisture content:		
25%		
(wet weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 25% Wet Weight Moisture Correction applied (MC)


#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				16 mg/kg	1.32	15.844 mg/kg	0.00158 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	cadmium { cadmium oxide }				0.27 mg/kg	1.142	0.231 mg/kg	0.0000231 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
3	chromium in chromium(III) compounds { chromium(III) oxide }				16 mg/kg	1.462	17.539 mg/kg	0.00175 %	✓	
		215-160-9	1308-38-9							
4	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
5	copper { dicopper oxide; copper (I) oxide }				39 mg/kg	1.126	32.932 mg/kg	0.00329 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
6	lead { lead chromate }			1	86 mg/kg	1.56	100.608 mg/kg	0.00645 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
7	mercury { mercury dichloride }				0.43 mg/kg	1.353	0.436 mg/kg	0.0000436 %	✓	
	080-010-00-X	231-299-8	7487-94-7							
8	nickel { nickel chromate }				23 mg/kg	2.976	51.341 mg/kg	0.00513 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
9	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				0.45 mg/kg	2.554	0.862 mg/kg	0.0000862 %	✓	
	034-002-00-8									
10	zinc { zinc chromate }				50 mg/kg	2.774	104.03 mg/kg	0.0104 %	✓	
	024-007-00-3									
11	pH				7.2 pH		7.2 pH	7.2 pH		
			PH							
12	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
13	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
14	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
15	fluorene	201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
16	phenanthrene	201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
17	anthracene	204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
18	fluoranthene	205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
19	pyrene	204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
20	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
21	chrysene	601-048-00-0	205-923-4	218-01-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24	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
25	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26	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
27	benzo[ghi]perylene	205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
28	vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1	22 mg/kg	1.785	29.456 mg/kg	0.00295 %	✓	
Total:								0.032 %		

Key

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

Classification of sample: TP107-864069-24/07/2019-0.50

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

Sample details

Sample Name: TP107-864069-24/07/2019-0.50	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 0.50 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 13% (wet weight correction)		

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				2.2 mg/kg	1.32	2.527 mg/kg	0.000253 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide; boric oxide }				<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(III) compounds { chromium(III) oxide }				1.1 mg/kg	1.462	1.399 mg/kg	0.00014 %	✓	
		215-160-9	1308-38-9							
5	chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.5 mg/kg	1.923	<0.962 mg/kg	<0.0000962 %		<LOD
	024-001-00-0	215-607-8	1333-82-0							
6	copper { dicopper oxide; copper (I) oxide }				3.5 mg/kg	1.126	3.428 mg/kg	0.000343 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
7	lead { lead chromate }			1	7 mg/kg	1.56	9.499 mg/kg	0.000609 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
8	mercury { mercury dichloride }				<0.1 mg/kg	1.353	<0.135 mg/kg	<0.0000135 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
9	nickel { nickel chromate }				1 mg/kg	2.976	2.589 mg/kg	0.000259 %	✓	
	028-035-00-7	238-766-5	14721-18-7							
10	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<0.2 mg/kg	2.554	<0.511 mg/kg	<0.0000511 %		<LOD
	034-002-00-8									
11	zinc { zinc chromate }				3 mg/kg	2.774	7.241 mg/kg	0.000724 %	✓	
	024-007-00-3									
12	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
13	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
14	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
15	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
16	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
18	pH				7.7 pH		7.7 pH	7.7 pH		
			PH							
19	naphthalene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
20	acenaphthylene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		205-917-1	208-96-8							
21	acenaphthene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		201-469-6	83-32-9							
22	fluorene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		201-695-5	86-73-7							
23	phenanthrene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		201-581-5	85-01-8							
24	anthracene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		204-371-1	120-12-7							
25	fluoranthene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		205-912-4	206-44-0							
26	pyrene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		204-927-3	129-00-0							
27	benzo[a]anthracene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
28	chrysene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
29	benzo[b]fluoranthene				2.8 mg/kg		2.436 mg/kg	0.000244 %	✓	
	601-034-00-4	205-911-9	205-99-2							
30	benzo[k]fluoranthene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
31	benzo[a]pyrene; benzo[def]chrysene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
32	indeno[123-cd]pyrene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		205-893-2	193-39-5							
33	dibenz[a,h]anthracene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
34	benzo[ghi]perylene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		205-883-8	191-24-2							
35	vanadium { divanadium pentaoxide; vanadium pentoxide }				<5 mg/kg	1.785	<8.926 mg/kg	<0.000893 %		<LOD
	023-001-00-8	215-239-8	1314-62-1							
36	1,1-dichloroethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-011-00-1	200-863-5	75-34-3							
37	bromochloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-826-3	74-97-5							
38	chloroform; trichloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-006-00-4	200-663-8	67-66-3							
39	1,1,1-trichloroethane; methyl chloroform				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
40	carbon tetrachloride; tetrachloromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-008-00-5	200-262-8	56-23-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
41	1,1-dichloropropene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
42	1,2-dichloroethane; ethylene dichloride				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-012-00-7	203-458-1	107-06-2							
43	trichloroethylene; trichloroethene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
44	dichlorodifluoromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		200-893-9	75-71-8							
45	1,2-dichloropropane; propylene dichloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
46	dibromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
47	bromodichloromethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		200-856-7	75-27-4							
48	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]							
49	trans-1,3-dichloropropene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		431-460-4	10061-02-6							
50	1,1,2-trichloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
51	tetrachloroethylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-028-00-4	204-825-9	127-18-4							
52	1,3-dichloropropane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		205-531-3	142-28-9							
53	dibromochloromethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		204-704-0	124-48-1							
54	chloromethane; methyl chloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-001-00-7	200-817-4	74-87-3							
55	1,2-dibromoethane				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
56	chlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-033-00-1	203-628-5	108-90-7							
57	1,1,1,2-tetrachloroethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		211-135-1	630-20-6							
58	styrene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-026-00-0	202-851-5	100-42-5							
59	bromoform; tribromomethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-007-00-X	200-854-6	75-25-2							
60	tert-butylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		202-632-4	98-06-6							
61	1,2,4-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
62	sec-butylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		205-227-0	135-98-8							
63	1,3-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
64	bromomethane; methylbromide				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
65	4-isopropyltoluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		202-796-7	99-87-6							
66	1,4-dichlorobenzene; p-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
67	n-butylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		203-209-7	104-51-8							
68	1,2-dichlorobenzene; o-dichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
69	1,2-dibromo-3-chloropropane				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-021-00-6	202-479-3	96-12-8							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
70	1,2,4-trichlorobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
71	hexachlorobutadiene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		201-765-5	87-68-3							
72	1,2,3-trichlorobenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		201-757-1	87-61-6							
73	carbon disulphide				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	006-003-00-3	200-843-6	75-15-0							
74	chloroethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
75	trichlorofluoromethane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
		200-892-3	75-69-4							
76	1,1-dichloroethylene; vinylidene chloride				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-025-00-8	200-864-0	75-35-4							
77	vinyl chloride; chloroethylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
78	bromobenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
79	1,2,3-trichloropropane				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
80	mesitylene; 1,3,5-trimethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-025-00-5	203-604-4	108-67-8							
81	hexachloroethane				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		200-666-4	67-72-1							
82	nitrosodipropylamine				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	612-098-00-8	210-698-0	621-64-7							
83	4-nitrophenol; p-nitrophenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	609-015-00-2	202-811-7	100-02-7							
84	nitrobenzene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	609-003-00-7	202-716-0	98-95-3							
85	3,5,5-trimethylcyclohex-2-enone; isophorone				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	606-012-00-8	201-126-0	78-59-1							
86	2-nitrophenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		201-857-5	88-75-5							
87	3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]							
88	bis(2-chloroethoxy)methane				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		203-920-2	111-91-1							
89	2,4-dichlorophenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	604-011-00-7	204-429-6	120-83-2							
90	dimethylnitrosoamine; N-nitrosodimethylamine				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	612-077-00-3	200-549-8	62-75-9							
91	4-chloroaniline				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	612-137-00-9	203-401-0	106-47-8							
92	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	604-014-00-3	200-431-6	59-50-7							
93	2-methyl naphthalene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
		202-078-3	91-57-6							
94	hexachlorocyclopentadiene				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	602-078-00-7	201-029-3	77-47-4							
95	2,4,6-trichlorophenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	604-018-00-5	201-795-9	88-06-2							
96	2,4,5-trichlorophenol				<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
	604-017-00-X	202-467-8	95-95-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
97	2-chloronaphthalene	202-079-9	91-58-7		1.4 mg/kg		1.218 mg/kg	0.000122 %	✓	
98	phenol	604-001-00-2	203-632-7	108-95-2	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
99	dimethyl phthalate	205-011-6	131-11-3		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
100	2,6-dinitrotoluene	609-049-00-8	210-106-0	606-20-2	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
101	dibenzofuran	205-071-3	132-64-9		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
102	4-chlorophenylphenylether	230-281-7	7005-72-3		0.98 mg/kg		0.853 mg/kg	0.0000853 %	✓	
103	2,4-dinitrotoluene; [1] dinitrotoluene [2]	609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
104	diethyl phthalate	201-550-6	84-66-2		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
105	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]	604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
106	DNOC (ISO); 4,6-dinitro-o-cresol	609-020-00-X	208-601-1	534-52-1	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
107	azobenzene	611-001-00-6	203-102-5	103-33-3	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
108	4-bromophenylphenylether	202-952-4	101-55-3		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
109	hexachlorobenzene	602-065-00-6	204-273-9	118-74-1	2.1 mg/kg		1.827 mg/kg	0.000183 %	✓	
110	pentachlorophenol	604-002-00-8	201-778-6	87-86-5	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
111	carbazole	201-696-0	86-74-8		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
112	dibutyl phthalate; DBP	607-318-00-4	201-557-4	84-74-2	2.2 mg/kg		1.914 mg/kg	0.000191 %	✓	
113	bis(2-chloroethyl) ether	603-029-00-2	203-870-1	111-44-4	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
114	BBP; benzyl butyl phthalate	607-430-00-3	201-622-7	85-68-7	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
115	bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP	607-317-00-9	204-211-0	117-81-7	<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
116	di-n-octyl phthalate	204-214-7	117-84-0		<0.5 mg/kg		<0.5 mg/kg	<0.00005 %		<LOD
117	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]	604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]	<1 mg/kg		<1 mg/kg	<0.0001 %		<LOD
118	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]	602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
119	cumene; [1] propylbenzene [2]	601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]	0.24 mg/kg		0.209 mg/kg	0.0000209 %	✓	
120	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]	602-040-00-X	202-424-3 [1] 203-580-5 [2]	95-49-8 [1] 108-41-8 [2]	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
		203-397-0 [3] 246-698-2 [4]	106-43-4 [3] 25168-05-2 [4]							
121	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3] 612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]		<1.5 mg/kg		<1.5 mg/kg	<0.00015 %		<LOD
Total:								0.00709 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Concentrations at less than 1.0% are "unlikely to be flammable". Flammability of soils is unlikely to result in a hazardous classification in soils (AGS Waste Classification – A Practitioner’s Guide).


Hazard Statements hit:

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

Because of determinand:

cumene; [1] propylbenzene [2]: (conc.: 0.00002%)

Classification of sample: TP107-864070-24/07/2019-1.00

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

Sample details

Sample Name: TP107-864070-24/07/2019-1.00	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: 1.00 m	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: 19% (wet weight correction)		

Hazard properties

None identified

Determinands


Moisture content: 19% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane 603-181-00-X 216-653-1 1634-04-4				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
2	benzene 601-020-00-8 200-753-7 71-43-2				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
3	toluene 601-021-00-3 203-625-9 108-88-3				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
4	ethylbenzene 601-023-00-4 202-849-4 100-41-4				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
5	xylene 601-022-00-9 202-422-2 [1] 95-47-6 [1] 203-396-5 [2] 106-42-3 [2] 203-576-3 [3] 108-38-3 [3] 215-535-7 [4] 1330-20-7 [4]				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
Total:								6.0e-07 %		

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)
- <LOD** Below limit of detection

Classification of sample: TP107-864071-24/07/2019-1.50

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

Sample details

<p>Sample Name: TP107-864071-24/07/2019-1.50</p> <p>Sample Depth: 1.50 m</p> <p>Moisture content: 18% (wet weight correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
--	---

Hazard properties

None identified

Determinands

Moisture content: 18% Wet Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	CLP index number	EC Number	CAS Number							
1	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							
2	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
3	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
4	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
5	xylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]							
Total:								6.0e-07 %		

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)
- <LOD Below limit of detection

Appendix A: Classifier defined and non CLP determinands

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

CLP index number: 601-023-00-4

Description/Comments:

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

Additional Hazard Statement(s): Carc. 2 H351

Reason for additional Hazards Statement(s)/Risk Phrase(s):

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

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

Conversion factor: 1.462

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

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

CLP index number: 006-007-00-5

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

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

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

Reason for additional Hazards Statement(s)/Risk Phrase(s):

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

pH (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

acenaphthylene (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database

Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 17 Jul 2015

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

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

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 Chronic 1 H410 , Aquatic Acute 1 H400

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

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

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

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

• **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 Chronic 1 H410 , Aquatic Acute 1 H400

• **bromochloromethane** (EC Number: 200-826-3, CAS Number: 74-97-5)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Ozone 1 H420 , Skin Irrit. 2 H315 , STOT SE 3 H335 , Acute Tox. 4 H332 , Eye Dam. 1 H318 , Skin Corr. 1B H314 , Acute Tox. 4 H312

• **dichlorodifluoromethane** (EC Number: 200-893-9, CAS Number: 75-71-8)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Press. Gas H280 , Ozone 1 H420 , Aquatic Chronic 3 H412

• **bromodichloromethane** (EC Number: 200-856-7, CAS Number: 75-27-4)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Repr. 1A H360 , Carc. 1B H350 , Muta. 1B H340 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Eye Dam. 1 H318 , Skin Irrit. 2 H315 , Acute Tox. 4 H302

• **trans-1,3-dichloropropene** (EC Number: 431-460-4, CAS Number: 10061-02-6)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Aquatic Chronic 1 H410 , STOT SE 3 H335 , Acute Tox. 4 H332 , Eye Irrit. 2 H319 , Skin Sens. 1 H317 , Skin Irrit. 2 H315 , Acute Tox. 3 H311 , Asp. Tox. 1 H304 , Acute Tox. 3 H301 , Flam. Liq. 3 H226

• **1,3-dichloropropane** (EC Number: 205-531-3, CAS Number: 142-28-9)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315 , Flam. Liq. 3 H226 , Flam. Liq. 2 H225 , Acute Tox. 4 H332

• **dibromochloromethane** (EC Number: 204-704-0, CAS Number: 124-48-1)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Aquatic Chronic 2 H411 , Muta. 2 H341 , STOT SE 3 H336 , STOT SE 3 H335 , Acute Tox. 4 H332 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315 , Acute Tox. 4 H312 , Acute Tox. 4 H302

• **1,1,1,2-tetrachloroethane** (EC Number: 211-135-1, CAS Number: 630-20-6)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Skin Irrit. 2 H315 , Aquatic Chronic 3 H412 , Acute Tox. 4 H312 , Carc. 2 H351 , Acute Tox. 4 H332 , Eye Dam. 1 H318 , Acute Tox. 3 H331 , Eye Irrit. 2 H319 , Acute Tox. 1 H310 , Acute Tox. 4 H302

• **tert-butylbenzene** (EC Number: 202-632-4, CAS Number: 98-06-6)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Aquatic Chronic 2 H411 , Asp. Tox. 1 H304 , STOT SE 3 H335 , Acute Tox. 4 H332 , Acute Tox. 3 H331 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315 , Flam. Liq. 3 H226

• **sec-butylbenzene** (EC Number: 205-227-0, CAS Number: 135-98-8)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Aquatic Chronic 2 H411 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315 , Asp. Tox. 1 H304 , Flam. Liq. 3 H226

• **4-isopropyltoluene** (EC Number: 202-796-7, CAS Number: 99-87-6)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Aquatic Chronic 2 H411 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315 , Asp. Tox. 1 H304 , Flam. Liq. 3 H226

• **n-butylbenzene** (EC Number: 203-209-7, CAS Number: 104-51-8)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315 , Flam. Liq. 3 H226

• **hexachlorobutadiene** (EC Number: 201-765-5, CAS Number: 87-68-3)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , STOT SE 2 H371 , Repr. 2 H361 , Carc. 2 H351 , Acute Tox. 2 H330 , Eye Irrit. 2 H319 , Skin Sens. 1 H317 , Skin Irrit. 2 H315 , Acute Tox. 2 H310 , Acute Tox. 3 H301

• **1,2,3-trichlorobenzene** (EC Number: 201-757-1, CAS Number: 87-61-6)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Aquatic Chronic 3 H410 , Aquatic Acute 1 H400 , STOT SE 3 H336 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315 , Acute Tox. 4 H302

• **trichlorofluoromethane** (EC Number: 200-892-3, CAS Number: 75-69-4)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Ozone 1 H420 , Acute Tox. 4 H312

• **hexachloroethane** (EC Number: 200-666-4, CAS Number: 67-72-1)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: STOT RE 2 H373 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Carc. 2 H351 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315

• **2-nitrophenol** (EC Number: 201-857-5, CAS Number: 88-75-5)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , STOT RE 2 H373 , STOT SE 3 H335 , Acute Tox. 4 H332 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315 , Acute Tox. 4 H312 , Acute Tox. 4 H302

• **bis(2-chloroethoxy)methane** (EC Number: 203-920-2, CAS Number: 111-91-1)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: STOT RE 2 H373 , STOT SE 1 H370 , Acute Tox. 2 H330 , Acute Tox. 1 H330 , Acute Tox. 4 H312 , Acute Tox. 3 H301

• **2-methyl naphthalene** (EC Number: 202-078-3, CAS Number: 91-57-6)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , STOT SE 3 H336 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315 , Acute Tox. 4 H302

• **2-chloronaphthalene** (EC Number: 202-079-9, CAS Number: 91-58-7)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Skin Irrit. 2 H315 , STOT SE 3 H335 , Eye Irrit. 2 H319

• **dimethyl phthalate** (EC Number: 205-011-6, CAS Number: 131-11-3)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Aquatic Chronic 3 H412 , Repr. 2 H361 , STOT SE 3 H336 , STOT SE 3 H335 , Acute Tox. 3 H331 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315

• **dibenzofuran** (EC Number: 205-071-3, CAS Number: 132-64-9)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Aquatic Chronic 2 H411 , Acute Tox. 4 H332 , Acute Tox. 4 H312 , Acute Tox. 4 H302

• **4-chlorophenylphenylether** (EC Number: 230-281-7, CAS Number: 7005-72-3)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Eye Dam. 1 H318 , Skin Sens. 1 H317 , Skin Irrit. 2 H315 , Acute Tox. 4 H302

• **diethyl phthalate** (EC Number: 201-550-6, CAS Number: 84-66-2)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Aquatic Chronic 1 H410 , Skin Sens. 1 H317 , STOT SE 3 H336 , Acute Tox. 4 H302 , Repr. 2 H361 , STOT RE 2 H373 , STOT SE 3 H335 , Acute Tox. 3 H311 , Acute Tox. 3 H331 , Skin Irrit. 2 H315

• **4-bromophenylphenylether** (EC Number: 202-952-4, CAS Number: 101-55-3)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Eye Irrit. 2 H319 , Eye Dam. 1 H318 , Skin Sens. 1 H317 , Skin Irrit. 2 H315 , Acute Tox. 4 H302

• **carbazole** (EC Number: 201-696-0, CAS Number: 86-74-8)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 3 H301 , Acute Tox. 3 H311 , Acute Tox. 3 H331 , Aquatic Chronic 1 H410 , Aquatic Acute 1 H400 , Carc. 2 H351 , Muta. 2 H341 , STOT SE 3 H335 , Eye Irrit. 2 H319 , Skin Irrit. 2 H315 , Acute Tox. 4 H302

• **di-n-octyl phthalate** (EC Number: 204-214-7, CAS Number: 117-84-0)

Description/Comments: VOC; Data from C&L Inventory Database

Data source: <https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>

Data source date: 02 Mar 2017

Hazard Statements: Aquatic Chronic 4 H413 , Eye Irrit. 2 H319 , Resp. Sens. 1 H334 , Skin Sens. 1 H317 , Repr. 2 H361

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Reasonable case CLP species based on hazard statements/molecular weight and most common (stable) oxide of arsenic. Industrial sources include: smelting; main precursor to other arsenic compounds (edit as required);

boron {diboron trioxide; boric oxide}

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

cadmium {cadmium oxide}

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

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

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

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

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

copper {dicopper oxide; copper (I) oxide}

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

lead {lead chromate}

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

mercury {mercury dichloride}

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

nickel {nickel chromate}

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

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

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

zinc {zinc chromate}

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

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

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

vanadium {divanadium pentaoxide; vanadium pentoxide}

worst case/most likely scenario;

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2019.197.3909.7942 (16 Jul 2019)

HazWasteOnline Database: 2019.197.3909.7942 (16 Jul 2019)

This classification utilises the following guidance and legislation:

WM3 v1.1 - Waste Classification - 1st Edition v1.1 - May 2018
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Wastes 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
POPs Regulation 2004 - Regulation 850/2004/EC of 29 April 2004
1st ATP to POPs Regulation - Regulation 756/2010/EU of 24 August 2010
2nd ATP to POPs Regulation - Regulation 757/2010/EU of 24 August 2010

Appendix J

WAC Test Laboratory Certificates

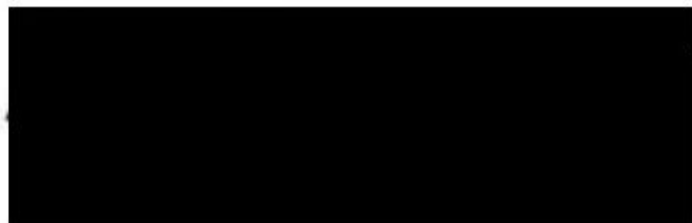


Final Report

Report No.: 19-25838-1
Initial Date of Issue: 09-Aug-2019
Client: LK Consult
Client Address: Unit 29 Eton Business Park
Eton Hill Road
Radcliffe
Manchester
Lancashire
M26 2ZS
Contact(s): Chris Hughes
Contaminated Land
Project: LKC 19 1314 Barns Lane, Dunham
Massey
Quotation No.:
Order No.:
No. of Samples: 1
Turnaround (Wkdays): 7
Date Approved: 09-Aug-2019

Date Received: 01-Aug-2019
Date Instructed: 01-Aug-2019
Results Due: 09-Aug-2019

Approved By:



Details: Martin Dyer, Laboratory Manager

Results - 2 Stage WAC

Project: LKC 19 1314 Barns Lane, Dunham Massey

Chemtest Job No: 19-25838							Landfill Waste Acceptance Criteria Limits		
Chemtest Sample ID: 866944							Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample Ref: TP101/103/107									
Sample ID: Combined WAC									
Sample Location: 0.40									
Top Depth(m): 1.00									
Bottom Depth(m): 24-Jul-2019									
Sampling Date:									
Determinand	SOP	Accred.	Units						
Total Organic Carbon	2625	U	%	1.6			3	5	6
Loss On Ignition	2610	U	%	2.9			--	--	10
Total BTEX	2760	U	mg/kg	< 0.010			6	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg	< 0.10			1	--	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg	210			500	--	--
Total (Of 17) PAH's	2700	N	mg/kg	< 2.0			100	--	--
pH	2010	U		8.5			--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg	0.013			--	To evaluate	To evaluate
Eluate Analysis				2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative mg/kg 10:1	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg	
Arsenic	1450	U	0.0083	0.0081	< 0.050	0.081	0.5	2	25
Barium	1450	U	0.041	0.022	< 0.50	< 0.50	20	100	300
Cadmium	1450	U	< 0.00010	< 0.00010	< 0.010	< 0.010	0.04	1	5
Chromium	1450	U	< 0.0010	< 0.0010	< 0.050	< 0.050	0.5	10	70
Copper	1450	U	0.0032	0.0023	< 0.050	< 0.050	2	50	100
Mercury	1450	U	< 0.00050	< 0.00050	< 0.0010	< 0.0050	0.01	0.2	2
Molybdenum	1450	U	0.051	0.012	0.10	0.17	0.5	10	30
Nickel	1450	U	< 0.0010	< 0.0010	< 0.050	< 0.050	0.4	10	40
Lead	1450	U	< 0.0010	< 0.0010	< 0.010	< 0.010	0.5	10	50
Antimony	1450	U	0.0080	0.0037	0.016	0.043	0.06	0.7	5
Selenium	1450	U	0.0011	< 0.0010	< 0.010	< 0.010	0.1	0.5	7
Zinc	1450	U	0.0049	< 0.0010	< 0.50	< 0.50	4	50	200
Chloride	1220	U	7.1	3.4	14	39	800	15000	25000
Fluoride	1220	U	1.0	0.82	2.0	8.4	10	150	500
Sulphate	1220	U	280	59	560	880	1000	20000	50000
Total Dissolved Solids	1020	N	490	160	970	2000	4000	60000	100000
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-
Dissolved Organic Carbon	1610	U	38	24	76	260	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	8.3

Leachate Test Information	
Leachant volume 1st extract/l	0.334
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.230

Waste Acceptance Criteria

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

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
640	Characterisation of Waste (Leaching)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

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- > "greater than"

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Uncertainty of measurement for the determinands tested are available upon request

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

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

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

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

Charges may apply to extended sample storage

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

customerservices@chemtest.com



Final Report

Report No.: 19-25465-1

Initial Date of Issue: 06-Aug-2019

Client: LK Consult

Client Address: Unit 29 Eton Business Park
Eton Hill Road
Radcliffe
Manchester
Lancashire
M26 2ZS

Contact(s): Chris Hughes
Contaminated Land

Project: LKC 19 1314 Barns Lane

Quotation No.: **Date Received:** 29-Jul-2019

Order No.: **Date Instructed:** 29-Jul-2019

No. of Samples: 2

Turnaround (Wkdays): 7 **Results Due:** 06-Aug-2019

Date Approved: 06-Aug-2019

Approved By:

Details: Martin Dyer, Laboratory Manager

Results - 2 Stage WAC

Project: LKC 19 1314 Barns Lane

Chemtest Job No: 19-25465							Landfill Waste Acceptance Criteria Limits			
Chemtest Sample ID: 865391							Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample Ref: WS101+WS102										
Sample ID: WAC1										
Sample Location: WAC1										
Top Depth(m): 0.25										
Bottom Depth(m): 1.00										
Sampling Date: 19-Jul-2019										
Determinand	SOP	Accred.	Units							
Total Organic Carbon	2625	U	%				1.2	3	5	6
Loss On Ignition	2610	U	%				2.7	--	--	10
Total BTEX	2760	U	mg/kg				< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg				< 0.10	1	--	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg				57	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg				68	100	--	--
pH	2010	U					8.8	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg				0.081	--	To evaluate	To evaluate
Eluate Analysis				2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative mg/kg 10:1	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1450	U	0.0035	0.0046	< 0.050	< 0.050	0.5	2	25	
Barium	1450	U	0.032	0.052	< 0.50	< 0.50	20	100	300	
Cadmium	1450	U	< 0.00010	< 0.00010	< 0.010	< 0.010	0.04	1	5	
Chromium	1450	U	0.0053	0.0015	< 0.050	< 0.050	0.5	10	70	
Copper	1450	U	0.0033	0.0037	< 0.050	< 0.050	2	50	100	
Mercury	1450	U	< 0.00050	< 0.00050	< 0.0010	< 0.0050	0.01	0.2	2	
Molybdenum	1450	U	0.016	0.0043	< 0.050	0.062	0.5	10	30	
Nickel	1450	U	< 0.0010	< 0.0010	< 0.050	< 0.050	0.4	10	40	
Lead	1450	U	< 0.0010	0.0024	< 0.010	0.020	0.5	10	50	
Antimony	1450	U	0.0026	0.0014	< 0.010	0.016	0.06	0.7	5	
Selenium	1450	U	0.0020	< 0.0010	< 0.010	< 0.010	0.1	0.5	7	
Zinc	1450	U	0.0021	< 0.0010	< 0.50	< 0.50	4	50	200	
Chloride	1220	U	420	38	840	1000	800	15000	25000	
Fluoride	1220	U	0.47	0.25	< 1.0	2.9	10	150	500	
Sulphate	1220	U	140	27	280	460	1000	20000	50000	
Total Dissolved Solids	1020	N	980	160	1900	2900	4000	60000	100000	
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-	
Dissolved Organic Carbon	1610	U	9.2	8.6	< 50	87	500	800	1000	

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	8.4

Leachate Test Information	
Leachant volume 1st extract/l	0.334
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.291

Waste Acceptance Criteria

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

Results - 2 Stage WAC

Project: LKC 19 1314 Barns Lane

Chemtest Job No: 19-25465							Landfill Waste Acceptance Criteria Limits			
Chemtest Sample ID: 865392							Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample Ref: WS105+WS106										
Sample ID: WAC2										
Sample Location: WAC2										
Top Depth(m): 0.20										
Bottom Depth(m): 1.60										
Sampling Date: 19-Jul-2019										
Determinand	SOP	Accred.	Units							
Total Organic Carbon	2625	U	%	0.83			3	5	6	
Loss On Ignition	2610	U	%	2.4			--	--	10	
Total BTEX	2760	U	mg/kg	< 0.010			6	--	--	
Total PCBs (7 Congeners)	2815	U	mg/kg	< 0.10			1	--	--	
TPH Total WAC (Mineral Oil)	2670	U	mg/kg	< 10			500	--	--	
Total (Of 17) PAH's	2700	N	mg/kg	< 2.0			100	--	--	
pH	2010	U		7.7			--	>6	--	
Acid Neutralisation Capacity	2015	N	mol/kg	0.015			--	To evaluate	To evaluate	
Eluate Analysis				2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative mg/kg 10:1	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1450	U	0.0011	0.0015	< 0.050	< 0.050	0.5	2	25	
Barium	1450	U	0.033	0.016	< 0.50	< 0.50	20	100	300	
Cadmium	1450	U	< 0.00010	< 0.00010	< 0.010	< 0.010	0.04	1	5	
Chromium	1450	U	< 0.0010	< 0.0010	< 0.050	< 0.050	0.5	10	70	
Copper	1450	U	0.0013	0.0019	< 0.050	< 0.050	2	50	100	
Mercury	1450	U	< 0.00050	< 0.00050	< 0.0010	< 0.0050	0.01	0.2	2	
Molybdenum	1450	U	0.0056	0.0017	< 0.050	< 0.050	0.5	10	30	
Nickel	1450	U	0.0014	0.0010	< 0.050	< 0.050	0.4	10	40	
Lead	1450	U	< 0.0010	0.0019	< 0.010	0.017	0.5	10	50	
Antimony	1450	U	0.0012	< 0.0010	< 0.010	< 0.010	0.06	0.7	5	
Selenium	1450	U	< 0.0010	< 0.0010	< 0.010	< 0.010	0.1	0.5	7	
Zinc	1450	U	< 0.0010	0.0018	< 0.50	< 0.50	4	50	200	
Chloride	1220	U	25	11	49	130	800	15000	25000	
Fluoride	1220	U	0.34	0.38	< 1.0	3.7	10	150	500	
Sulphate	1220	U	110	22	220	320	1000	20000	50000	
Total Dissolved Solids	1020	N	270	98	540	1200	4000	60000	100000	
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-	
Dissolved Organic Carbon	1610	U	14	13	< 50	130	500	800	1000	

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	14

Leachate Test Information	
Leachant volume 1st extract/l	0.322
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.201

Waste Acceptance Criteria

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SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
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2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
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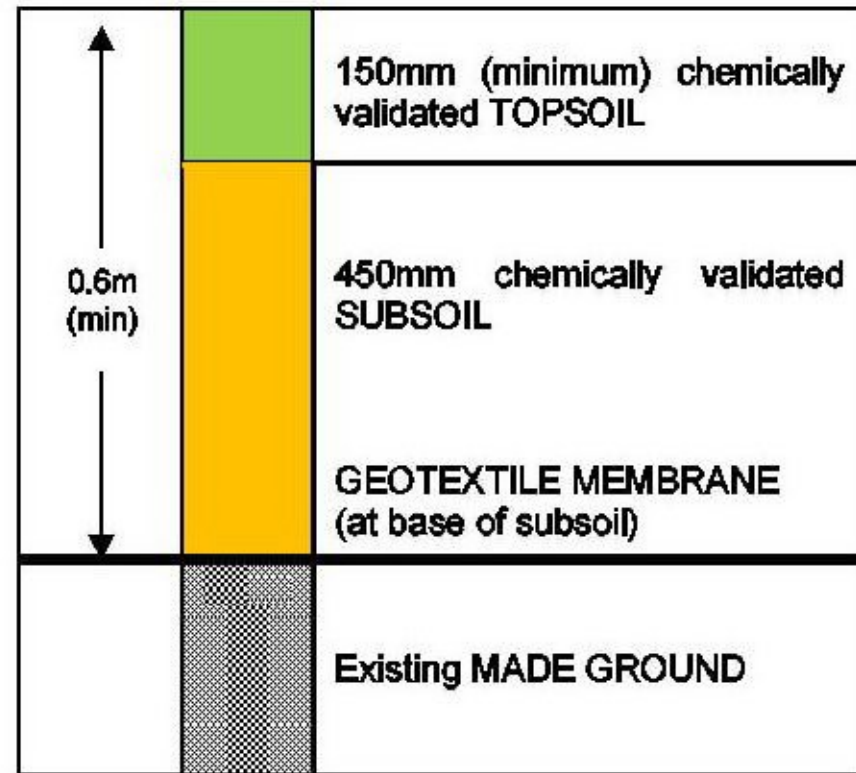
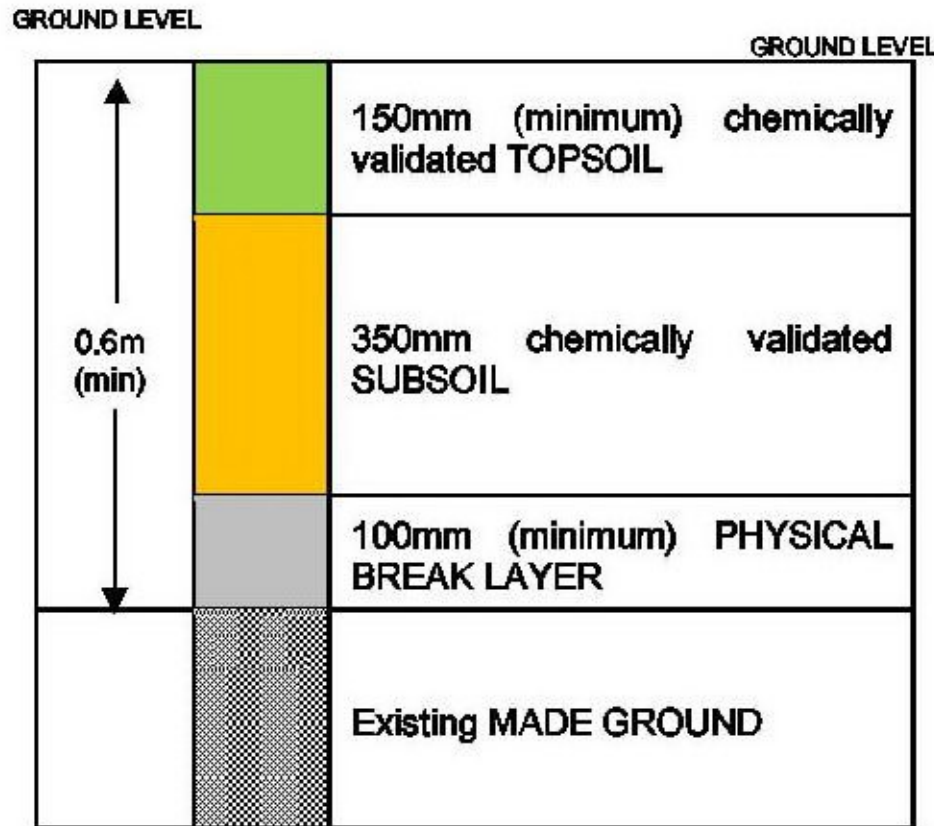
Appendix K

Environmental Cover System Construction

Private Gardens
Shared Landscaping

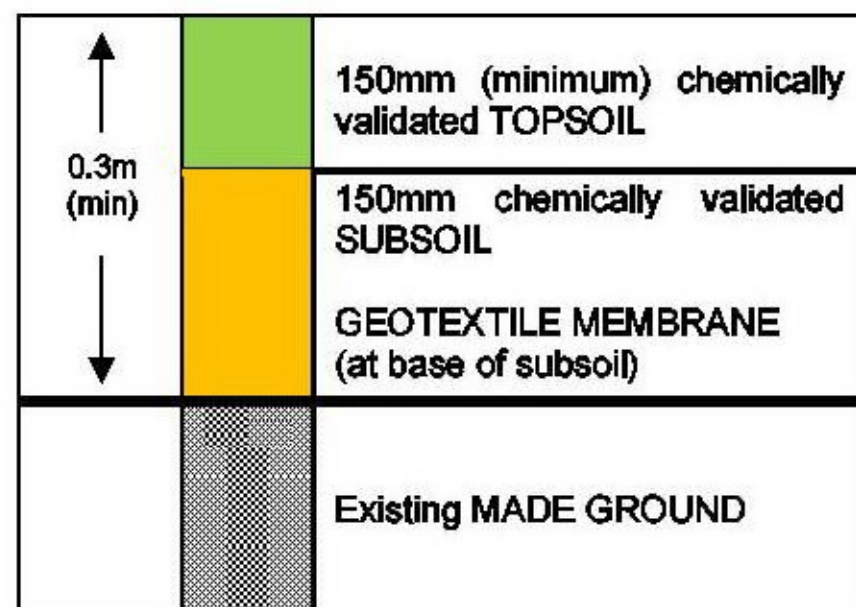
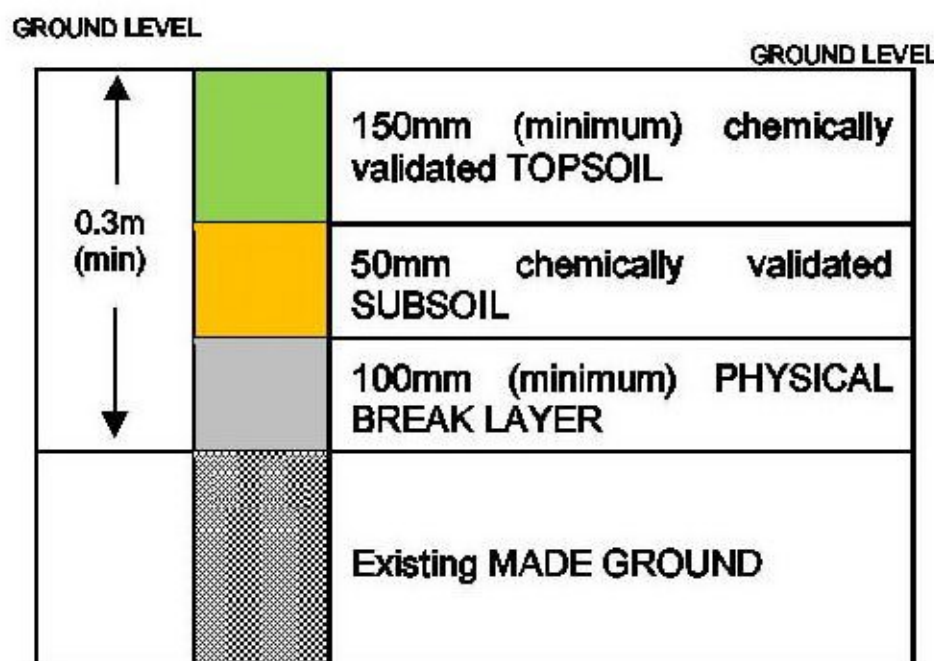
PRIVATE BACK GARDENS:

Either (physical break layer)
Or (geotextile membrane)



PRIVATE FRONT GARDENS / SHARED LANDSCAPING:

Either (physical break layer)
Or (geotextile membrane)



Based across the UK with
offices in Manchester,
London, Liverpool and Glasgow.

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- » Geotechnical
- » Contaminated Land
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- » Asbestos
- » Invasive Species
- » Land Remediation
- » Project Management
- » Land Drilling