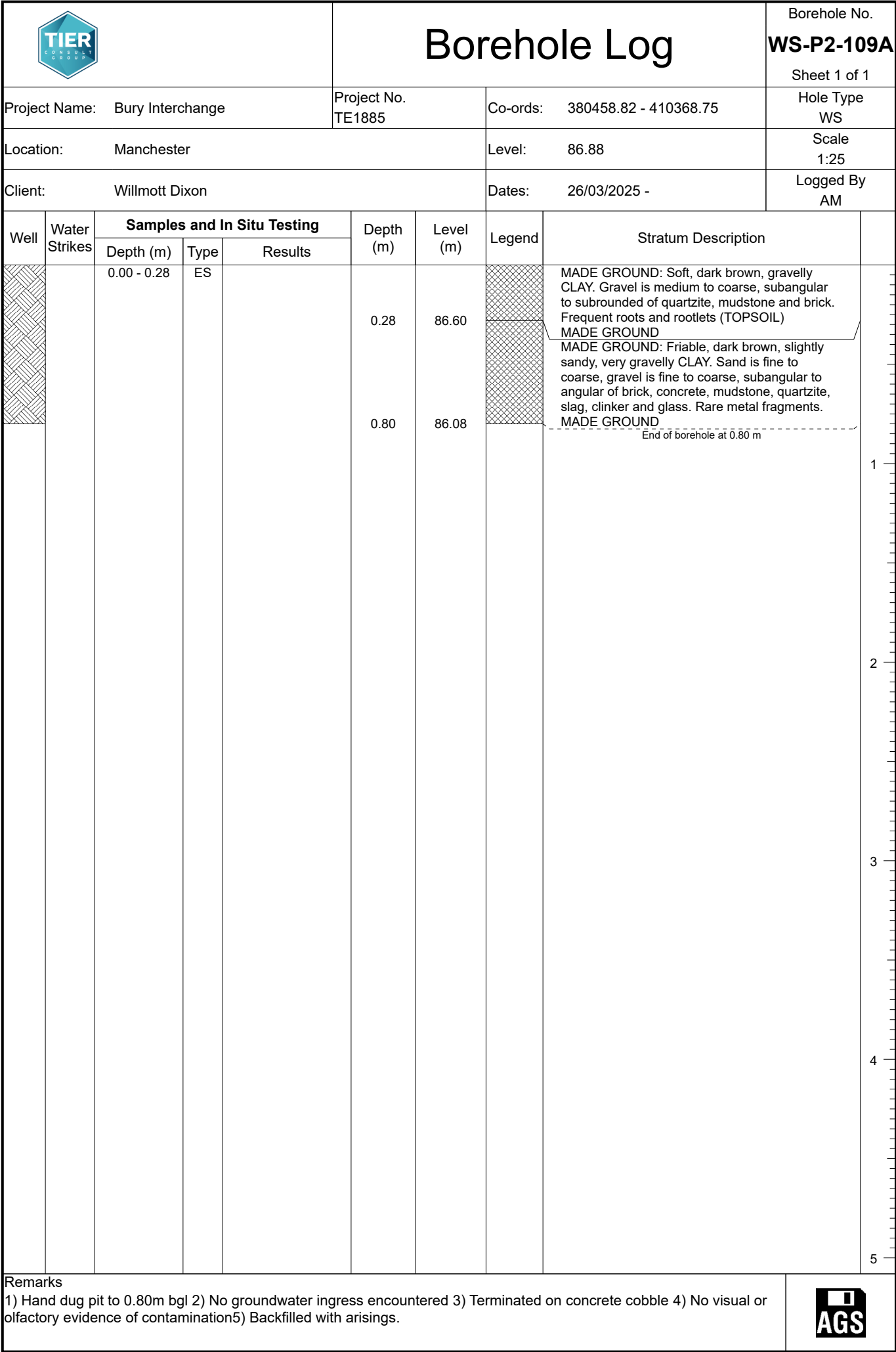






Borehole Log

Borehole No.
WS-P2-109B

Sheet 1 of 1

Hole Type
WS

Scale
1:25

Logged By
AM

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380459.37 - 410368.28

Location: Manchester

Level: 86.91

Client: Willmott Dixon

Dates: 26/03/2025 -

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.50 - 0.70	ES		0.76	86.15		MADE GROUND: Friable, dark brown, slightly sandy, very gravelly CLAY. Sand is fine to coarse, gravel is fine to coarse, subangular to angular of brick, concrete, mudstone, quartzite, slag, clinker and glass. Rare metal fragments. MADE GROUND	
								End of borehole at 0.76 m	1
									2
									3
									4
									5

Remarks

1) Hand dug pit to 0.76m bgl 2) No groundwater encountered 3) Terminated on concrete cobble 4) No visual or olfactory evidence of contamination 5) Backfilled with arisings.





Borehole Log

Borehole No.
WS-P2-109C

Sheet 1 of 1

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380460.49 - 410368.55

Hole Type
WS

Location: Manchester

Level: 86.92

Scale
1:25

Client: Willmott Dixon

Dates: 26/03/2025 -

Logged By
AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.15	86.77		MADE GROUND: Soft, dark brown, gravelly CLAY. Gravel is medium to coarse, subangular to subrounded of quartzite, mudstone and brick. Frequent roots and rootlets (TOPSOIL)	
					0.62	86.30		MADE GROUND MADE GROUND: Friable, dark brown, slightly sandy, very gravelly CLAY. Sand is fine to coarse, gravel is fine to coarse, subangular to angular of brick, concrete, mudstone, quartzite, slag, clinker and glass. Rare metal fragments. MADE GROUND End of borehole at 0.62 m	
									1
									2
									3
									4
									5

Remarks

1) Hand dug pit to 0.62m bgl 2) No groundwater ingress encountered 3) Terminated on concrete cobble 4) No visual or olfactory evidence of contamination 5) Backfilled with arisings.





Borehole Log

Borehole No.
WS-P2-109D

Sheet 1 of 1

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380451.66 - 410374.45

Hole Type
WS

Location: Manchester

Level: 86.80

Scale
1:25

Client: Willmott Dixon

Dates: 26/03/2025 -

Logged By
AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
					0.38	86.42		MADE GROUND: Friable, dark brown, slightly sandy, very gravelly CLAY. Sand is fine to coarse, gravel is fine to coarse, subangular to angular of brick, concrete, mudstone, quartzite, slag, clinker and glass. Rare metal fragments. MADE GROUND ----- End of borehole at 0.38 m	1
									2
									3
									4
									5

Remarks

1) Hand dug pit to 0.38m bgl 2) No groundwater ingress encountered 3) Terminated on concrete cobble 4) No visual or olfactory evidence of contamination 5) Backfilled with arisings.





Borehole Log

Borehole No.
WS-P2-109E
Sheet 1 of 1
Hole Type
WS
Scale
1:25
Logged By
AM

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380455.11 - 410372.82

Location: Manchester

Level: 86.94

Client: Willmott Dixon

Dates: 26/03/2025 -

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30 - 0.50	ES		0.12	86.82		MADE GROUND: Soft, dark brown, gravelly CLAY. Gravel is medium to coarse, subangular to subrounded of quartzite, mudstone and brick. Frequent roots and rootlets (TOPSOIL) MADE GROUND MADE GROUND: Friable, dark brown, slightly sandy, very gravelly CLAY with moderate cobble content. Gravel is fine to coarse, subangular to angular of mudstone, concrete, coal, slag, clinker, sandstone and glass. Cobble is of brick and concrete. MADE GROUND <i>Large concrete cobble at 0.60m</i>	1
		1.10 - 1.30	ES		1.10	85.84		MADE GROUND: Medium dense, black, slightly clayey, very sandy GRAVEL. Sand is medium to coarse, gravel is fine to medium, angular to subangular of coal and sandstone. MADE GROUND <i>Wood with strong hydrocarbon odour.</i>	2
		1.20	D						
		1.20	SPTL						
		1.20	S	N=18 (4,10/9,5,2,2)					
		1.30 - 1.50	ES						
		2.00	D						
		2.00	SPTL						
		2.00	S	N=23 (3,4/6,6,5,6)	2.20	84.74		MADE GROUND: Stiff, dark brown mottled orange, slightly gravelly CLAY, gravel is fine to coarse, subrounded of brick and mudstone. MADE GROUND	3
		2.50 - 3.00	ES						
		2.70	D						
		2.70	SPTL						
		2.70	S	50 (10,10/50 for 210mm)	2.90	84.04		Light grey mottled orange cobble of SANDSTONE TILL	4
					3.20	83.74		End of borehole at 3.20 m	5

Remarks

1) Hand dug pit to 1.20m bgl 2) No groundwater ingress encountered 3) Terminated on refusal 4) Hydrocarbon odour between 1.30m and 2.00m 5) Installed and backfilled.





Borehole Log

Borehole No.
WS-P2-110

Sheet 1 of 1

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380461.94 - 410381.18

Hole Type
WS

Location: Manchester

Level: 89.70

Scale
1:25

Client: Willmott Dixon

Dates: 28/03/2025 -

Logged By
AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.30 - 0.50	ES					MADE GROUND: Stiff locally soft, dark brown, slightly sandy, very gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse, angular to subangular of slag, clinker and glass. Cobble is of sandstone and brick. MADE GROUND	1
		1.20 1.20 1.20 1.30 - 1.50	D SPTL S ES	N=6 (1,2/2,1,2,1)					2
		2.00 2.00 2.00	D SPTL S	N=22 (5,10/11,5,3,3)					3
		3.00 3.00 3.00	D SPTL S	N=31 (8,8/9,9,7,6)	2.70 3.00	87.00 86.70		MADE GROUND: Medium dense, black, very sandy GRAVEL. Sand is fine to coarse, gravel is fine to medium, angular to subangular of coal, mudstone and clinker. MADE GROUND Stiff, dark brown, slightly gravelly CLAY. Gravel is fine to medium, subangular to subrounded of quartzite, mudstone, brick and coal. MADE GROUND	4
		3.70 3.70 3.70	D SPTL S	52 (8,8/52 for 215mm)	4.45	85.25		End of borehole at 4.45 m	5

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater ingress encountered at 3.70m bgl no rise in 10mins 3) Terminated on refusal 4) No visual or olfactory evidence of contamination 5) Installed and backfilled.





Borehole Log

Borehole No.
WS-P2-111

Sheet 1 of 1

Project Name: Bury Interchange

Project No.
TE1885

Co-ords: 380379.58 - 410373.25

Hole Type
WS

Location: Manchester

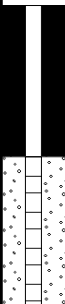
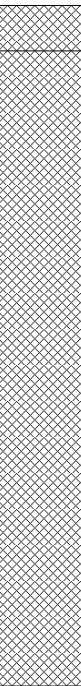
Level: 81.67

Scale
1:25

Client: Willmott Dixon

Dates: 26/03/2025 -

Logged By
AM

Well	Water Strikes	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
		Depth (m)	Type	Results					
		0.15 - 0.30	ES		0.15	81.52		MADE GROUND: Black ASPHALT MADE GROUND	
		1.20 1.20	SPTL S	N=18 (3,4/6,5,3,4)				MADE GROUND: Medium dense to dense, light grey, sandy GRAVEL. Sand is fine to coarse, gravel is fine to coarse subangular of limestone (sub-base) MADE GROUND	
		2.00 2.00 2.00	D SPTL S	50 (25 for 80mm/50 for 145mm)	2.25	79.42			
								End of borehole at 2.25 m	

Remarks

1) Hand dug pit to 1.20m bgl 2) Groundwater ingress encountered at 0.60m, no rise after 10mins 3) Terminated on refusal 4) No visual or olfactory evidence of contamination 5) Installed and backfilled



APPENDIX C - GEOENVIRONMENTAL SOIL LABORATORY RESULTS

Tier Environmental
Suite 414, Chadwick House
Warrington Rd
Birchwood
Warrington
United Kingdom
WA3 6AE



4225



Attention : Adrian Read
Date : 16th May, 2025
Your reference : TE1885
Our reference : Test Report 25/5398 Batch 1
Location : Bury Interchange
Date samples received : 3rd April, 2025
Status : Final Report
Issue : 202505161054

Twenty five samples were received for analysis on 3rd April, 2025 of which thirteen were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 38.082 kg of CO2

Scope 1&2&3 emissions - 89.999 kg of CO2

Authorised By:



Bruce Leslie
Project Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1885
Location: Bury Interchange
Contact: Adrian Read
EMT Job No: 25/5398

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-4	17-20	35-38	47-50	55-58	67-70	74	75	76		Please see attached notes for all abbreviations and acronyms		
Sample ID	TP-P2-101	WS-P2-101	WS-P2-110	BH-P2-104	BH-P2-104	BH-P2-104	BH-P2-105	WS-P2-111	BH-P2-105				
Depth	0.30	0.45-0.60	1.30-1.50	1.10-1.30	3.20-3.50	13.70-14.00	18.80	0.00-0.15	8.10-8.50				
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	T	T	T				
Sample Date	01/04/2025	28/03/2025	27/03/2025	28/03/2025	28/03/2025	31/03/2025	31/03/2025	31/03/2025	31/03/2025				
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Batch Number	1	1	1	1	1	1	1	1	1		LOD/LOR	Units	Method No.
Date of Receipt	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025				
Arsenic #	24.6	1.2	-	5.3	5.7	-	-	-	-		<0.5	mg/kg	TM30/PM15
Cadmium #	1.1	0.1	-	0.1	<0.1	-	-	-	-		<0.1	mg/kg	TM30/PM15
Chromium #	74.5	14.1	-	32.0	51.5	-	-	-	-		<0.5	mg/kg	TM30/PM15
Copper #	121	20	-	19	27	-	-	-	-		<1	mg/kg	TM30/PM15
Iron	29690	7935	-	19490	32790	-	-	-	-		<20	mg/kg	TM30/PM15
Lead #	143	8	-	29	25	-	-	-	-		<5	mg/kg	TM30/PM15
Manganese #	1010	120	-	514	512	-	-	-	-		<1	mg/kg	TM30/PM15
Mercury #	0.3	<0.1	-	<0.1	<0.1	-	-	-	-		<0.1	mg/kg	TM30/PM15
Nickel #	27.1	12.0	-	16.3	29.7	-	-	-	-		<0.7	mg/kg	TM30/PM15
Selenium #	2	<1	-	1	1	-	-	-	-		<1	mg/kg	TM30/PM15
Sulphur as S	-	-	0.02	0.17	-	0.15	-	-	0.16		<0.01	%	TM30/PM15
Total Sulphate as SO4 #	532	3458	-	3561	679	-	-	-	-		<50	mg/kg	TM50/PM29
Total Sulphate as SO4 BRE	-	-	0.02	0.36	-	0.03	-	-	0.03		<0.01	%	TM50/PM29
Water Soluble Boron #	1.3	0.3	-	1.7	0.8	-	-	-	-		<0.1	mg/kg	TM74/PM32
Zinc #	250	31	-	57	78	-	-	-	-		<5	mg/kg	TM30/PM15
Magnesium	-	-	0.0008	0.0004	-	NDP	-	-	0.0026		<0.0001	g/l	TM30/PM20
Magnesium	-	-	-	-	-	0.0026	-	-	-		<0.0001	g/l	TM30/PM60
PAH MS													
Naphthalene #	1.80	0.09	-	0.42	0.36	-	-	-	-		<0.04	mg/kg	TM4/PM8
Acenaphthylene	1.98	<0.03	-	0.07	0.04	-	-	-	-		<0.03	mg/kg	TM4/PM8
Acenaphthene #	2.57	<0.05	-	0.60	0.87	-	-	-	-		<0.05	mg/kg	TM4/PM8
Fluorene #	2.19	0.05	-	0.44	0.61	-	-	-	-		<0.04	mg/kg	TM4/PM8
Phenanthrene #	25.12	0.29	-	4.42	6.03	-	-	-	-		<0.03	mg/kg	TM4/PM8
Anthracene #	6.98	0.05	-	1.16	1.60	-	-	-	-		<0.04	mg/kg	TM4/PM8
Fluoranthene #	32.73	0.25	-	6.35	7.66	-	-	-	-		<0.03	mg/kg	TM4/PM8
Pyrene #	29.16	0.23	-	5.53	6.23	-	-	-	-		<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	15.54	0.12	-	2.31	2.77	-	-	-	-		<0.06	mg/kg	TM4/PM8
Chrysene #	15.78	0.16	-	2.40	2.93	-	-	-	-		<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #	25.14	0.23	-	3.52	4.45	-	-	-	-		<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	16.64	0.12	-	2.25	2.94	-	-	-	-		<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #	9.95	0.07	-	1.25	1.66	-	-	-	-		<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	2.46	<0.04	-	0.29	0.30	-	-	-	-		<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	9.48	0.07	-	1.21	1.48	-	-	-	-		<0.04	mg/kg	TM4/PM8
Coronene	1.99	<0.04	-	0.22	-	-	-	-	-		<0.04	mg/kg	TM4/PM8
PAH 16 Total	197.5	1.7	-	32.2	39.9	-	-	-	-		<0.6	mg/kg	TM4/PM8
PAH 17 Total	199.51	1.73	-	32.44	-	-	-	-	-		<0.64	mg/kg	TM4/PM8
Benzo(b)fluoranthene	18.10	0.17	-	2.53	3.20	-	-	-	-		<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	7.04	0.06	-	0.99	1.25	-	-	-	-		<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	103	98	-	99	92	-	-	-	-		<0	%	TM4/PM8
VOC TICs	-	-	-	ND	-	-	-	-	-			None	TM15/PM10
Methyl Tertiary Butyl Ether #	-	-	-	<2	-	-	-	-	-		<2	ug/kg	TM15/PM10
Benzene #	-	-	-	7	-	-	-	-	-		<3	ug/kg	TM15/PM10

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1885
Location: Bury Interchange
Contact: Adrian Read
EMT Job No: 25/5398

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-4	17-20	35-38	47-50	55-58	67-70	74	75	76		Please see attached notes for all abbreviations and acronyms		
Sample ID	TP-P2-101	WS-P2-101	WS-P2-110	BH-P2-104	BH-P2-104	BH-P2-104	BH-P2-105	WS-P2-111	BH-P2-105				
Depth	0.30	0.45-0.60	1.30-1.50	1.10-1.30	3.20-3.50	13.70-14.00	18.80	0.00-0.15	8.10-8.50				
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	T	T	T				
Sample Date	01/04/2025	28/03/2025	27/03/2025	28/03/2025	28/03/2025	31/03/2025	31/03/2025	31/03/2025	31/03/2025				
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Batch Number	1	1	1	1	1	1	1	1	1				
Date of Receipt	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025		LOD/LOR	Units	Method No.
Toluene #	-	-	-	16	-	-	-	-	-		<3	ug/kg	TM15/PM10
Ethylbenzene #	-	-	-	5	-	-	-	-	-		<3	ug/kg	TM15/PM10
m/p-Xylene #	-	-	-	19	-	-	-	-	-		<5	ug/kg	TM15/PM10
o-Xylene #	-	-	-	6	-	-	-	-	-		<3	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	-	-	-	67	-	-	-	-	-		<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	-	-	-	76	-	-	-	-	-		<0	%	TM15/PM10
SVOC TICs	-	-	-	See Attached	-	-	-	-	-			None	TM16/PM8
Mineral Oil (C10-C40) (EH_CU_1D_AL)	177	69	-	185	-	-	-	-	-		<30	mg/kg	TM5/PM8/PM16
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL) #	-	-	-	<0.1	-	-	-	-	-		<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) #	-	-	-	<0.1	-	-	-	-	-		<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	-	-	-	0.1	-	-	-	-	-		<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) #	-	-	-	<0.2	-	-	-	-	-		<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 (EH_CU_1D_AL) #	-	-	-	10	-	-	-	-	-		<4	mg/kg	TM5/PM8/PM16
>C16-C21 (EH_CU_1D_AL) #	-	-	-	28	-	-	-	-	-		<7	mg/kg	TM5/PM8/PM16
>C21-C35 (EH_CU_1D_AL) #	-	-	-	116	-	-	-	-	-		<7	mg/kg	TM5/PM8/PM16
>C35-C40 (EH_CU_1D_AL)	-	-	-	31	-	-	-	-	-		<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-40 (EH_CU+HS_1D_AL)	-	-	-	185	-	-	-	-	-		<26	mg/kg	TM5/PM8/PM16
Aromatics													
>C5-EC7 (HS_1D_AR) #	-	-	-	<0.1	-	-	-	-	-		<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) #	-	-	-	<0.1	-	-	-	-	-		<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) #	-	-	-	<0.1	-	-	-	-	-		<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) #	-	-	-	<0.2	-	-	-	-	-		<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) #	-	-	-	13	-	-	-	-	-		<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) #	-	-	-	58	-	-	-	-	-		<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) #	-	-	-	241	-	-	-	-	-		<7	mg/kg	TM5/PM8/PM16
>EC35-EC40 (EH_CU_1D_AR)	-	-	-	96	-	-	-	-	-		<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-40 (EH_CU+HS_1D_AR)	-	-	-	408	-	-	-	-	-		<26	mg/kg	TM5/PM8/PM16
Total aliphatics and aromatics (C5-40) (EH_CU+HS_1D_Total)	-	-	-	593	-	-	-	-	-		<52	mg/kg	TM5/PM8/PM16
MTBE #	<5 ^{SV}	<5 ^{SV}	-	-	-	-	-	-	-		<5	ug/kg	TM36/PM12
Benzene #	<5 ^{SV}	<5 ^{SV}	-	-	-	-	-	-	-		<5	ug/kg	TM36/PM12
Toluene #	<5 ^{SV}	<5 ^{SV}	-	-	-	-	-	-	-		<5	ug/kg	TM36/PM12
Ethylbenzene #	<5 ^{SV}	<5 ^{SV}	-	-	-	-	-	-	-		<5	ug/kg	TM36/PM12
m/p-Xylene #	<5 ^{SV}	<5 ^{SV}	-	-	-	-	-	-	-		<5	ug/kg	TM36/PM12
o-Xylene #	<5 ^{SV}	<5 ^{SV}	-	-	-	-	-	-	-		<5	ug/kg	TM36/PM12
PCB 77	-	-	-	<5	-	-	-	-	-		<5	ug/kg	TM17/PM8
PCB 81	-	-	-	<5	-	-	-	-	-		<5	ug/kg	TM17/PM8
PCB 105	-	-	-	<5	-	-	-	-	-		<5	ug/kg	TM17/PM8

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1885
Location: Bury Interchange
Contact: Adrian Read
EMT Job No: 25/5398

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	1-4	17-20	35-38	47-50	55-58	67-70	74	75	76		Please see attached notes for all abbreviations and acronyms		
Sample ID	TP-P2-101	WS-P2-101	WS-P2-110	BH-P2-104	BH-P2-104	BH-P2-104	BH-P2-105	WS-P2-111	BH-P2-105				
Depth	0.30	0.45-0.60	1.30-1.50	1.10-1.30	3.20-3.50	13.70-14.00	18.80	0.00-0.15	8.10-8.50				
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	T	T	T				
Sample Date	01/04/2025	28/03/2025	27/03/2025	28/03/2025	28/03/2025	31/03/2025	31/03/2025	31/03/2025	31/03/2025				
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil				
Batch Number	1	1	1	1	1	1	1	1	1				
Date of Receipt	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025	03/04/2025		LOD/LOR	Units	Method No.
PCB 114	-	-	-	<5	-	-	-	-	-		<5	ug/kg	TM17/PM8
PCB 118	-	-	-	<5	-	-	-	-	-		<5	ug/kg	TM17/PM8
PCB 123	-	-	-	<5	-	-	-	-	-		<5	ug/kg	TM17/PM8
PCB 126	-	-	-	<5	-	-	-	-	-		<5	ug/kg	TM17/PM8
PCB 156	-	-	-	<5	-	-	-	-	-		<5	ug/kg	TM17/PM8
PCB 157	-	-	-	<5	-	-	-	-	-		<5	ug/kg	TM17/PM8
PCB 167	-	-	-	<5	-	-	-	-	-		<5	ug/kg	TM17/PM8
PCB 169	-	-	-	<5	-	-	-	-	-		<5	ug/kg	TM17/PM8
PCB 189	-	-	-	<5	-	-	-	-	-		<5	ug/kg	TM17/PM8
Total 12 PCBs	-	-	-	<60	-	-	-	-	-		<60	ug/kg	TM17/PM8
PCB 28 #	<5	<5	-	<5	-	-	-	-	-		<5	ug/kg	TM17/PM8
PCB 52 #	<5	<5	-	<5	-	-	-	-	-		<5	ug/kg	TM17/PM8
PCB 101 #	<5	<5	-	<5	-	-	-	-	-		<5	ug/kg	TM17/PM8
PCB 118 #	<5	<5	-	<5	-	-	-	-	-		<5	ug/kg	TM17/PM8
PCB 138 #	<5	<5	-	<5	-	-	-	-	-		<5	ug/kg	TM17/PM8
PCB 153 #	<5	<5	-	<5	-	-	-	-	-		<5	ug/kg	TM17/PM8
PCB 180 #	<5	<5	-	<5	-	-	-	-	-		<5	ug/kg	TM17/PM8
Total 7 PCBs #	<35	<35	-	<35	-	-	-	-	-		<35	ug/kg	TM17/PM8
Total Phenols HPLC	0.24	<0.15	-	<0.15	<0.15	-	-	-	-		<0.15	mg/kg	TM26/PM21B
SEM #	-	-	-	-	-	-	-	39948	-		<110	mg/kg	TM7/PM6
Saturates (Aliphatics)	-	-	-	-	-	-	-	10.21	-		<0.01	%	TM13/PM6
Aromatics	-	-	-	-	-	-	-	14.80	-		<0.01	%	TM13/PM6
Resins (Heterocyclics)	-	-	-	-	-	-	-	60.79	-		<0.01	%	TM13/PM6
Asphaltenes	-	-	-	-	-	-	-	14.20	-		<0.01	%	TM13/PM6
Natural Moisture Content	18.3	3.7	20.6	19.8	19.5	20.3	-	2.5	9.9		<0.1	%	PM4/PM0
Triterpanes 191m/z	-	-	-	-	-	-	-	Present	-			None	TM16/PM6
Triaromatic Steranes 231m/z	-	-	-	-	-	-	-	Present	-			None	TM16/PM6
Coal Tar	-	-	-	-	-	-	-	<0.1	-		<0.1	%	TM16/PM6
Ammoniacal Nitrogen as N	1.7	1.0	-	0.7	<0.6	-	-	-	-		<0.6	mg/kg	TM38/PM20
Ammoniacal Nitrogen as NH4	-	-	<0.6	<0.6	-	<0.6	-	-	<0.6		<0.6	mg/kg	TM38/PM20
Chloride (2:1 Ext BRE) #	-	-	0.005	0.040	-	0.015	-	-	0.005		<0.002	g/l	TM38/PM20
Hexavalent Chromium #	<0.3	<0.3	-	<0.3	<0.3	-	-	-	-		<0.3	mg/kg	TM38/PM20
Nitrate as NO3 (2:1 Ext BRE)	-	-	0.0027	<0.0025	-	<0.0025	-	-	<0.0025		<0.0025	g/l	TM38/PM20
Sulphate as SO4 (2:1 Ext) #	0.0243	1.3448	0.0194	0.4550	0.1799	0.0204	-	-	0.0295		<0.0015	g/l	TM38/PM20
Free Cyanide	<0.5	<0.5	-	<0.5	<0.5	-	-	-	-		<0.5	mg/kg	TM89/PM45
Total Cyanide #	0.9	<0.5	-	<0.5	<0.5	-	-	-	-		<0.5	mg/kg	TM89/PM45
Complex Cyanide	0.9	<0.5	-	<0.5	<0.5	-	-	-	-		<0.5	mg/kg	TM89/PM45

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1885
Location: Bury Interchange
Contact: Adrian Read
EMT Job No: 25/5398

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

[illegible]

Client Name: Tier Environmental
Reference: TE1885
Location: Bury Interchange
Contact: Adrian Read
EMT Job No: 25/5398

Solids: V=60g VOC jar. J=250g glass jar. T=plastic tub

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1885
Location: Bury Interchange
Contact: Adrian Read
EMT Job No: 25/5398

SVOC Report : Solid

[illegible]

[illegible]

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1885
Location: Bury Interchange
Contact: Adrian Read
EMT Job No: 25/5398

VOC Report : Solid

EMT Sample No.	47-50												
Sample ID	BH-P2-104												
Depth	1.10-1.30												
COC No / misc													
Containers	V J T												
Sample Date	28/03/2025												
Sample Type	Soil												
Batch Number	1												
Date of Receipt	03/04/2025												
											LOD/LOR	Units	Method No.
VOC MS													
Dichlorodifluoromethane	<2										<2	ug/kg	TM15/PM10
Methyl Tertiary Butyl Ether #	<2										<2	ug/kg	TM15/PM10
Chloromethane #	<3										<3	ug/kg	TM15/PM10
Vinyl Chloride	<2										<2	ug/kg	TM15_A/PM10
Bromomethane	<1										<1	ug/kg	TM15/PM10
Chloroethane #	<2										<2	ug/kg	TM15/PM10
Trichlorofluoromethane #	<2										<2	ug/kg	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #	<6										<6	ug/kg	TM15/PM10
Dichloromethane (DCM) #	<7										<7	ug/kg	TM15/PM10
trans-1-2-Dichloroethene #	<3										<3	ug/kg	TM15/PM10
1,1-Dichloroethane #	<3										<3	ug/kg	TM15/PM10
cis-1-2-Dichloroethene #	<3										<3	ug/kg	TM15/PM10
2,2-Dichloropropane	<4										<4	ug/kg	TM15/PM10
Bromochloromethane #	<3										<3	ug/kg	TM15/PM10
Chloroform #	<3										<3	ug/kg	TM15/PM10
1,1,1-Trichloroethane #	<3										<3	ug/kg	TM15/PM10
1,1-Dichloropropene #	<3										<3	ug/kg	TM15/PM10
Carbon tetrachloride #	<4										<4	ug/kg	TM15/PM10
1,2-Dichloroethane #	<4										<4	ug/kg	TM15/PM10
Benzene #	7										<3	ug/kg	TM15/PM10
Trichloroethene (TCE) #	<3										<3	ug/kg	TM15/PM10
1,2-Dichloropropane #	<6										<6	ug/kg	TM15/PM10
Dibromomethane #	<3										<3	ug/kg	TM15/PM10
Bromodichloromethane #	<3										<3	ug/kg	TM15/PM10
cis-1-3-Dichloropropene	<4										<4	ug/kg	TM15/PM10
Toluene #	16										<3	ug/kg	TM15/PM10
trans-1-3-Dichloropropene	<3										<3	ug/kg	TM15/PM10
1,1,2-Trichloroethane #	<3										<3	ug/kg	TM15/PM10
Tetrachloroethene (PCE) #	<3										<3	ug/kg	TM15/PM10
1,3-Dichloropropane #	<3										<3	ug/kg	TM15/PM10
Dibromochloromethane #	<3										<3	ug/kg	TM15/PM10
1,2-Dibromoethane #	<3										<3	ug/kg	TM15/PM10
Chlorobenzene #	<3										<3	ug/kg	TM15/PM10
1,1,1,2-Tetrachloroethane #	<3										<3	ug/kg	TM15/PM10
Ethylbenzene #	5										<3	ug/kg	TM15/PM10
m/p-Xylene #	19										<5	ug/kg	TM15/PM10
o-Xylene #	6										<3	ug/kg	TM15/PM10
Styrene	<3										<3	ug/kg	TM15_A/PM10
Bromoform	<3										<3	ug/kg	TM15/PM10
Isopropylbenzene #	<3										<3	ug/kg	TM15/PM10
1,1,2,2-Tetrachloroethane #	<3										<3	ug/kg	TM15/PM10
Bromobenzene	<2										<2	ug/kg	TM15/PM10
1,2,3-Trichloropropane #	<4										<4	ug/kg	TM15/PM10
Propylbenzene #	<4										<4	ug/kg	TM15/PM10
2-Chlorotoluene	<3										<3	ug/kg	TM15/PM10
1,3,5-Trimethylbenzene #	8										<3	ug/kg	TM15/PM10
4-Chlorotoluene	<3										<3	ug/kg	TM15/PM10
tert-Butylbenzene #	<5										<5	ug/kg	TM15/PM10
1,2,4-Trimethylbenzene #	13										<6	ug/kg	TM15/PM10
sec-Butylbenzene #	<4										<4	ug/kg	TM15/PM10
4-Isopropyltoluene	<4										<4	ug/kg	TM15/PM10
1,3-Dichlorobenzene #	<4										<4	ug/kg	TM15/PM10
1,4-Dichlorobenzene #	<4										<4	ug/kg	TM15/PM10
n-Butylbenzene	<4										<4	ug/kg	TM15/PM10
1,2-Dichlorobenzene #	<4										<4	ug/kg	TM15/PM10
1,2-Dibromo-3-chloropropane	<4										<4	ug/kg	TM15/PM10
1,2,4-Trichlorobenzene	<7										<7	ug/kg	TM15/PM10
Hexachlorobutadiene	<4										<4	ug/kg	TM15/PM10
Naphthalene	153										<27	ug/kg	TM15/PM10
1,2,3-Trichlorobenzene	<7										<7	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	67										<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	76										<0	%	TM15/PM10

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Method: SVOC
Matrix: Solid

Note: Only samples with TICs (if requested) are reported. If TICs were requested but no compounds found they are not reported.

[illegible]

Mass of sample taken (kg)	0.1191	Moisture Content Ratio (%) =	31.7		
Mass of dry sample (kg) =	0.09	Dry Matter Content Ratio (%) =	75.9		
Particle Size <4mm =	>95%				
EMT Job No	25/5398		Landfill Waste Acceptance Criteria Limits		
Sample No	3				
Client Sample No	TP-P2-101		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Depth/Other	0.30				
Sample Date	01/04/2025				
Batch No	1				
Solid Waste Analysis					
Total Organic Carbon (%)	6.28				
Loss on Ignition (%)	12.3		-	-	10
Sum of BTEX (mg/kg)	<0.025		6	-	-
Sum of 7 PCBs (mg/kg)	<0.035		1	-	-
Mineral Oil (mg/kg) (EH_CU_1D_AL)	177		500	-	-
PAH Sum of 17(mg/kg)	199.51		100	-	-
pH (pH Units)	7.96		-	>6	-
ANC to pH 7 (mol/kg)	<0.03		-	to be evaluated	to be evaluated
ANC to pH 4 (mol/kg)	0.26		-	to be evaluated	to be evaluated
Eluate Analysis	10:1 conc ⁿ leached		Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
	C ₁₀	A ₁₀			
	mg/l	mg/kg	mg/kg		
	Arsenic	0.0054	0.054	0.5	2
Barium	0.057	0.57	20	100	300
Cadmium	<0.0005	<0.005	0.04	1	5
Chromium	<0.0015	<0.015	0.5	10	70
Copper	0.013	0.13	2	50	100
Mercury	<0.001	<0.01	0.01	0.2	2
Molybdenum	0.002	<0.02	0.5	10	30
Nickel	<0.002	<0.02	0.4	10	40
Lead	<0.005	<0.05	0.5	10	50
Antimony	0.002	<0.02	0.06	0.7	5
Selenium	<0.003	<0.03	0.1	0.5	7
Zinc	0.005	0.05	4	50	200
Chloride	0.9	9	800	15000	25000
Fluoride	<0.3	<3	10	150	500
Sulphate as SO4	<0.5	<5	1000	20000	50000
Total Dissolved Solids	118	1179	4000	60000	100000
Phenol	<0.01	<0.1	1	-	-
Dissolved Organic Carbon	7	70	500	800	1000

Mass of sample taken (kg)	0.0979	Moisture Content Ratio (%) =	8.6
Mass of dry sample (kg) =	0.09	Dry Matter Content Ratio (%) =	92.1
Particle Size <4mm =	>95%		
EMT Job No	25/5398	Landfill Waste Acceptance Criteria Limits Inert Waste Landfill Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill Hazardous Waste Landfill	
Sample No	19		
Client Sample No	WS-P2-101		
Depth/Other	0.45-0.60		
Sample Date	28/03/2025		
Batch No	1		
Solid Waste Analysis			
Total Organic Carbon (%)	0.40	3	5
Loss on Ignition (%)	<1.0	-	10
Sum of BTEX (mg/kg)	<0.025	6	-
Sum of 7 PCBs (mg/kg)	<0.035	1	-
Mineral Oil (mg/kg) (EH_CU_1D_AL)	69	500	-
PAH Sum of 17(mg/kg)	1.73	100	-
pH (pH Units)	10.12	-	>6
ANC to pH 7 (mol/kg)	0.17	-	to be evaluated
ANC to pH 4 (mol/kg)	1.96	-	to be evaluated
Eluate Analysis	10:1 concⁿ leached		Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg
	C₁₀	A₁₀	
	mg/l	mg/kg	mg/kg
Arsenic	<0.0025	<0.025	0.5
Barium	<0.003	<0.03	20
Cadmium	<0.0005	<0.005	0.04
Chromium	<0.0015	<0.015	0.5
Copper	<0.007	<0.07	2
Mercury	<0.001	<0.01	0.01
Molybdenum	0.003	0.03	0.5
Nickel	<0.002	<0.02	0.4
Lead	<0.005	<0.05	0.5
Antimony	<0.002	<0.02	0.06
Selenium	<0.003	<0.03	0.1
Zinc	0.003	<0.03	4
Chloride	<0.3	<3	800
Fluoride	<0.3	<3	10
Sulphate as SO ₄	<0.5	<5	1000
Total Dissolved Solids	204	2039	4000
Phenol	<0.01	<0.1	1
Dissolved Organic Carbon	4	40	500

Mass of sample taken (kg)	0.1113	Moisture Content Ratio (%) =	23.5
Mass of dry sample (kg) =	0.09	Dry Matter Content Ratio (%) =	80.9
Particle Size <4mm =	>95%		
EMT Job No	25/5398	Landfill Waste Acceptance Criteria Limits Inert Waste Landfill Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill Hazardous Waste Landfill	
Sample No	49		
Client Sample No	BH-P2-104		
Depth/Other	1.10-1.30		
Sample Date	28/03/2025		
Batch No	1		
Solid Waste Analysis			
Total Organic Carbon (%)	1.00	3	5
Loss on Ignition (%)	3.2	-	10
Sum of BTEX (mg/kg)	0.053	6	-
Sum of 7 PCBs (mg/kg)	<0.035	1	-
Mineral Oil (mg/kg) (EH_CU_1D_AL)	185	500	-
PAH Sum of 17(mg/kg)	32.44	100	-
pH (pH Units)	11.40	-	>6
ANC to pH 7 (mol/kg)	0.42	-	to be evaluated
ANC to pH 4 (mol/kg)	1.52	-	to be evaluated
Eluate Analysis	10:1 concⁿ leached		Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg mg/kg
	C₁₀	A₁₀	
	mg/l	mg/kg	
Arsenic	<0.0025	<0.025	0.5
Barium	0.037	0.37	20
Cadmium	<0.0005	<0.005	0.04
Chromium	0.0040	0.040	0.5
Copper	<0.007	<0.07	2
Mercury	<0.001	<0.01	0.01
Molybdenum	0.010	0.10	0.5
Nickel	<0.002	<0.02	0.4
Lead	<0.005	<0.05	0.5
Antimony	<0.002	<0.02	0.06
Selenium	<0.003	<0.03	0.1
Zinc	<0.003	<0.03	4
Chloride	9.7	97	800
Fluoride	0.3	3	10
Sulphate as SO ₄	61.8	618	1000
Total Dissolved Solids	293	2930	4000
Phenol	<0.01	<0.1	1
Dissolved Organic Carbon	5	50	500

Client Name: Tier Environmental
Reference: TE1885
Location: Bury Interchange
Contact: Adrian Read

Note:

Asbestos Screen analysis is carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Detailed Gravimetric Quantification and PCOM Fibre Analysis is carried out in accordance with our documented in-house methods PM042 and TM131 and HSG 248 using Stereo and Polarised Light Microscopy and Phase Contrast Optical Microscopy (PCOM). Asbestos sub-samples are retained for not less than 6 months from the date of analysis unless specifically requested.

The LOQ of the Asbestos Quantification is 0.001% dry fibre of dry mass of sample.

Where the sample is not taken by a Element Materials Technology consultant, Element Materials Technology cannot be responsible for inaccurate or unrepresentative sampling.

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analyst Name	Date Of Analysis	Analysis	Result
25/5398	1	TP-P2-101	0.30	4	Miriam Silverlock	10/04/2025	General Description (Bulk Analysis)	Brown soil, stones
					Miriam Silverlock	10/04/2025	Asbestos Fibres	NAD
					Miriam Silverlock	10/04/2025	Asbestos ACM	NAD
					Miriam Silverlock	10/04/2025	Asbestos Type	NAD
25/5398	1	TP-P2-103	0.20	12	Catherine Coles	10/04/2025	General Description (Bulk Analysis)	brown soil,stone
					Catherine Coles	10/04/2025	Asbestos Fibres	NAD
					Catherine Coles	10/04/2025	Asbestos ACM	NAD
					Catherine Coles	10/04/2025	Asbestos Type	NAD
25/5398	1	WS-P2-101	0.45-0.60	20	Simon Postlewhite	10/04/2025	General Description (Bulk Analysis)	Brown soil/stones
					Simon Postlewhite	10/04/2025	Asbestos Fibres	NAD
					Simon Postlewhite	10/04/2025	Asbestos ACM	NAD
					Simon Postlewhite	10/04/2025	Asbestos Type	NAD
25/5398	1	WS-P2-102	0.50-1.00	28	Miriam Silverlock	10/04/2025	General Description (Bulk Analysis)	Brown soil, stones
					Miriam Silverlock	10/04/2025	Asbestos Fibres	Fibre Bundles
					Miriam Silverlock	10/04/2025	Asbestos ACM	NAD
					Miriam Silverlock	10/04/2025	Asbestos Type	Chrysotile
					Anthony Carman	09/05/2025	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					Anthony Carman	09/05/2025	Total Detailed Gravimetric Quantification (% Asb)	<0.001 (mass %)
					Anthony Carman	09/05/2025	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	<0.001 (mass %)
					Remigiusz Blichowski	16/05/2025	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
					Remigiusz Blichowski	16/05/2025	Asbestos Gravimetric & PCOM Total	<0.001 (mass %)
25/5398	1	WS-P2-103	0.55-1.00	30	Charlotte Taylor	10/04/2025	General Description (Bulk Analysis)	brown soil/stones
					Charlotte Taylor	10/04/2025	Asbestos Fibres	NAD
					Charlotte Taylor	10/04/2025	Asbestos ACM	NAD
					Charlotte Taylor	10/04/2025	Asbestos Type	NAD
25/5398	1	WS-P2-110	0.30-0.50	34	Charlotte Taylor	10/04/2025	General Description (Bulk Analysis)	brown soil/stones
					Charlotte Taylor	10/04/2025	Asbestos Fibres	Fibre Bundles
					Charlotte Taylor	10/04/2025	Asbestos ACM	NAD
					Charlotte Taylor	10/04/2025	Asbestos Type	Chrysotile
					Anthony Carman	09/05/2025	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					Anthony Carman	09/05/2025	Total Detailed Gravimetric Quantification (% Asb)	<0.001 (mass %)
					Anthony Carman	09/05/2025	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	<0.001 (mass %)
					Remigiusz Blichowski	16/05/2025	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
					Remigiusz Blichowski	16/05/2025	Asbestos Gravimetric & PCOM Total	<0.001 (mass %)

Client Name: Tier Environmental
Reference: TE1885
Location: Bury Interchange
Contact: Adrian Read

[illegible]

Matrix : Solid

17 of 28

Client Name: Tier Environmental

Reference: TE1885

Location: Bury Interchange

Contact: Adrian Read

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

It is a requirement under ISO 17025 that we inform clients if samples are deviating i.e. outside what is expected. A deviating sample indicates that the sample 'may' be compromised but not necessarily will be compromised. The result is still accredited and our analytical reports will still show accreditation on the relevant analytes.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 25/5398

SOILS and ASH

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

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 35°C ±5°C.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

Age of Diesel

The age of release estimation is based on the nC17/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996).

Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory are not aware.

Tentatively Identified Compounds (TICs)

Where Tentatively Identified Compounds (TICs) are reported, up to 10 Tentatively Identified Compounds will be listed where there is found to be a greater than 80% match with the NIST library. The reported concentration is determined semi-quantitatively, with a matrix specific limit of detection.

Note, other compounds may be present but are not reported.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 25/5398

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35 degrees Celsius or 105 degrees Celsius. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM16/PM30	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE/Water samples are extracted with solvent using a magnetic stirrer to create a vortex.			AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM16/PM30/PM69	please refer to PM16/PM30 and PM69 for method details			AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes

EMT Job No: 25/5398

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM7	Modified USEPA 3540C:1996 and 9071B:1998 for oily wastes. In house method for the gravimetric determination of a sample following solvent extraction.	PM6	Samples are extracted using Soxtec apparatus and solvent.	Yes		AR	Yes
TM13	Determination of Saturates, Aromatics, Resins and Asphaltenes by Thin Layer Chromatography with Flame Ionisation Detection.	PM6	Samples are extracted using Soxtec apparatus and solvent.			AR	Yes
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM6	Samples are extracted using Soxtec apparatus and solvent.			AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM6	Samples are extracted using Soxtec apparatus and solvent.			AR	
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM17	Modified US EPA method 8270D v5:2014. Determination of specific Polychlorinated Biphenyl congeners by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM17	Modified US EPA method 8270D v5:2014. Determination of specific Polychlorinated Biphenyl congeners by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes

EMT Job No: 25/5398

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM20	Modified BS 1377-3:1990/USEPA 160.1/3 (TDS/TS: 1971) Gravimetric determination of Total Dissolved Solids/Total Solids	PM0	No preparation is required.			AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO2 generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil.	PM24	Preparation of Soil and Marine Sediment Samples for Total Organic Carbon.			AD	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO2 generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil.	PM24	Preparation of Soil and Marine Sediment Samples for Total Organic Carbon.	Yes		AD	Yes
TM22	Modified BS1377-3:1990 Gravimetric determination of Loss on Ignition by temperature controlled Muffle Furnace (35C-440C). On request modified ASTM D2974-00 LOI (105C-440C)	PM0	No preparation is required.	Yes		AD	Yes
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM0	No preparation is required.			AR	Yes
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM21B	As Received samples are extracted in Methanol: Water (60:40) by reciprocal shaker.			AR	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma-Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified			AR	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma-Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 degrees Celsius. Samples containing asbestos are not dried and ground.			AD	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma-Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 degrees Celsius. Samples containing asbestos are not dried and ground.	Yes		AD	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma-Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AD	Yes

EMT Job No: 25/5398

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma-Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEPA Method 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM60	As received solid samples are extracted with deionised water in a 2:1 ratio of water to solid.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM69	One part soil is mixed with 10 parts water in a vial leaving no headspace. The mixture is shaken and then left to leach for 24 hours before VOC analysis.			AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) - All anions comparable to BS ISO 15923-1: 2013I	PM0	No preparation is required.	Yes		AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) - All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) - All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) - All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) - All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	A hot hydrochloric acid digest is performed on a dried and ground sample, and the resulting liquor is analysed.			AD	Yes

EMT Job No: 25/5398

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	A hot hydrochloric acid digest is performed on a dried and ground sample, and the resulting liquor is analysed.	Yes		AD	Yes
TM60	TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1.	PM0	No preparation is required.			AR	Yes
TM65	Asbestos Bulk Identification method based on HSG 248 Second edition (2021)	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM0	No preparation is required.			AR	Yes
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes		AR	No
TM74	Analysis of water soluble boron (20:1 extract) by ICP-OES.	PM32	Hot water soluble boron is extracted from dried and ground samples using a 20:1 ratio.	Yes		AD	Yes
TM77	Modified DDCEN/TS method 15364:2006. Determination of Acid Neutralization Capacity by Metrohm automated probe analyser.	PM0	No preparation is required.			AR	No
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM0	No preparation is required.			AR	Yes
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM0	No preparation is required.	Yes		AR	Yes
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM45	As received solid samples are extracted with 1M NaOH by orbital shaker for Cyanide, Sulphide and Thiocyanate analysis.			AR	Yes

EMT Job No: 25/5398

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM45	As received solid samples are extracted with 1M NaOH by orbital shaker for Cyanide, Sulphide and Thiocyanate analysis.	Yes		AR	Yes
TM131	Quantification of Asbestos Fibres and ACM based on HSG 248 Second edition:2021, HSG 264 Second edition:2012, HSE Contract Research Report No.83/1996, MDHS 87:1998, WM3 1st Edition v1.1:2018	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	Yes
TM170	Determination of Trace Metals by ICP-MS (Inductively Coupled Plasma-Mass Spectrometry): Modified USEPA Method 200.8, Rev. 5.4, 1994; Modified EPA Method 6020A, Rev.1, Feb 2007; Modified BS EN ISO 17294-2:2016	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified	Yes		AR	Yes
TM173	Analysis of fluoride by ISE (Ion Selective Electrode) using modified ISE method 9214 - 340.2 (EPA 1998)	PM0	No preparation is required.			AR	Yes
NONE	No Method Code	PM17	Modified method BS EN12457-2:2002 As received solid samples are leached with water in a 10:1 water to soil ratio for 24 hours, the moisture content of the sample is included in the ratio.				
NONE	No Method Code	PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35 degrees Celsius or 105 degrees Celsius. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.			AR	
TM15_A	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds, Vinyl Chloride & Styrene by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes

Tier Environmental
Suite 414, Chadwick House
Warrington Rd
Birchwood
Warrington
United Kingdom
WA3 6AE



4225



Attention : Adrian Read
Date : 29th April, 2025
Your reference : TE1885
Our reference : Test Report 25/5070 Batch 1
Location : Bury Interchange South
Date samples received : 29th March, 2025
Status : Final Report
Issue : 202504291404

Thirty six samples were received for analysis on 29th March, 2025 of which sixteen were scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 54.083 kg of CO2

Scope 1&2&3 emissions - 127.812 kg of CO2

Authorised By:



Phil Sommerton BSc

Senior Technical Account Manager

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1885
Location: Bury Interchange South
Contact: Adrian Read
EMT Job No: 25/5070

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	5-8	13-16	21-24	29-32	61-64	69-72	73-76	77-80	105-108	109-112	Please see attached notes for all abbreviations and acronyms		
Sample ID	WS-P2-104	WS-P2-105C	WS-P2-106	WS-P2-107	WS-P2-109E	BH-P2-105	BH-P2-105	SA-P2-101	TP-P2-104	TP-P2-106			
Depth	3.50-3.90	0.50-0.70	0.70-1.00	0.30-0.50	2.50-3.00	0.00-0.30	1.70-2.00	0.80	0.80	0.10			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	26/03/2025	26/03/2025	27/03/2025	27/03/2025	26/03/2025	26/03/2025	26/03/2025	27/03/2025	27/03/2025	27/03/2025			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1	LOD/LOR	Units	Method No.
Date of Receipt	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025			
Arsenic #	-	-	12.9	-	-	-	11.4	22.8	20.4	15.0	<0.5	mg/kg	TM30/PM15
Cadmium #	-	-	<0.1	-	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	mg/kg	TM30/PM15
Chromium #	-	-	37.6	-	-	-	35.8	191.5	33.1	59.6	<0.5	mg/kg	TM30/PM15
Copper #	-	-	57	-	-	-	39	151	56	63	<1	mg/kg	TM30/PM15
Iron	-	-	34690	-	-	-	25950	278900 ^{AA}	27650	27220	<20	mg/kg	TM30/PM15
Lead #	-	-	164	-	-	-	67	53	122	151	<5	mg/kg	TM30/PM15
Manganese #	-	-	482	-	-	-	654	6753 ^{AA}	167	444	<1	mg/kg	TM30/PM15
Mercury #	-	-	<0.1	-	-	-	<0.1	<0.1	<0.1	0.2	<0.1	mg/kg	TM30/PM15
Nickel #	-	-	23.9	-	-	-	21.4	22.8	18.7	23.5	<0.7	mg/kg	TM30/PM15
Selenium #	-	-	<1	-	-	-	2	8	1	2	<1	mg/kg	TM30/PM15
Sulphur as S	0.05	0.11	0.04	0.03	0.04	-	0.12	-	-	-	<0.01	%	TM30/PM15
Total Sulphate as SO ₄ #	-	-	292	-	-	-	568	673	365	794	<50	mg/kg	TM50/PM29
Total Sulphate as SO ₄ BRE	0.02	0.07	0.03	0.03	0.02	-	0.06	-	-	-	<0.01	%	TM50/PM29
Water Soluble Boron #	-	-	0.3	-	-	-	1.0	1.0	0.3	1.8	<0.1	mg/kg	TM74/PM32
Zinc #	-	-	138	-	-	-	94	48	153	581	<5	mg/kg	TM30/PM15
Magnesium	0.0018	0.0030	0.0020	0.0014	0.0028	-	0.0045	-	-	-	<0.0001	g/l	TM30/PM20
PAH MS													
Naphthalene #	-	-	2.40	-	-	-	1.38	2.54	0.21	<0.04	<0.04	mg/kg	TM4/PM8
Acenaphthylene	-	-	0.48	-	-	-	0.11	0.28	0.15	<0.03	<0.03	mg/kg	TM4/PM8
Acenaphthene #	-	-	5.27	-	-	-	1.32	0.39	0.74	0.15	<0.05	mg/kg	TM4/PM8
Fluorene #	-	-	3.39	-	-	-	0.71	0.70	0.44	0.09	<0.04	mg/kg	TM4/PM8
Phenanthrene #	-	-	34.72	-	-	-	6.09	5.62	5.30	1.55	<0.03	mg/kg	TM4/PM8
Anthracene #	-	-	8.90	-	-	-	1.62	1.06	1.29	0.39	<0.04	mg/kg	TM4/PM8
Fluoranthene #	-	-	45.31	-	-	-	10.25	4.55	7.63	3.30	<0.03	mg/kg	TM4/PM8
Pyrene #	-	-	35.55	-	-	-	8.27	3.81	6.50	2.83	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene #	-	-	18.36	-	-	-	4.02	2.61	3.06	1.46	<0.06	mg/kg	TM4/PM8
Chrysene #	-	-	18.22	-	-	-	4.23	2.73	3.44	1.63	<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene #	-	-	30.67	-	-	-	7.31	5.00	5.37	2.42	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene #	-	-	19.87	-	-	-	4.63	4.15	3.52	1.57	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene #	-	-	12.61	-	-	-	2.69	2.49	1.94	0.85	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene #	-	-	2.31	-	-	-	0.65	0.57	0.46	0.19	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene #	-	-	10.79	-	-	-	2.60	2.20	1.99	0.80	<0.04	mg/kg	TM4/PM8
Coronene	-	-	2.26	-	-	-	0.54	0.35	0.39	0.15	<0.04	mg/kg	TM4/PM8
PAH 16 Total	-	-	248.9	PAH 16 Total	-	-	55.9	38.7	42.0	17.2	<0.6	mg/kg	TM4/PM8
PAH 17 Total	-	-	251.11	-	-	-	56.42	39.05	42.43	17.38	<0.64	mg/kg	TM4/PM8
Benzo(b)fluoranthene	-	-	22.08	-	-	-	5.26	3.60	3.87	1.74	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	-	-	8.59	-	-	-	2.05	1.40	1.50	0.68	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	-	-	90	-	-	-	94	95	98	99	<0	%	TM4/PM8
VOC TICs	-	-	-	-	-	-	ND	ND	ND	-		None	TM15/PM10
Methyl Tertiary Butyl Ether #	-	-	-	-	-	-	<2	<2 ^{SV}	<2	-	<2	ug/kg	TM15/PM10
Benzene #	-	-	-	-	-	-	<3	<3 ^{SV}	<3	-	<3	ug/kg	TM15/PM10
Toluene #	-	-	-	-	-	-	<3	7 ^{SV}	<3	-	<3	ug/kg	TM15/PM10

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1885
Location: Bury Interchange South
Contact: Adrian Read
EMT Job No: 25/5070

Report : Solid

Solids: V=60g VOC jar. J=250g glass jar. T=plastic tub

EMT Sample No.	5-8	13-16	21-24	29-32	61-64	69-72	73-76	77-80	105-108	109-112	Please see attached notes for all abbreviations and acronyms		
Sample ID	WS-P2-104	WS-P2-105C	WS-P2-106	WS-P2-107	WS-P2-109E	BH-P2-105	BH-P2-105	SA-P2-101	TP-P2-104	TP-P2-106			
Depth	3.50-3.90	0.50-0.70	0.70-1.00	0.30-0.50	2.50-3.00	0.00-0.30	1.70-2.00	0.80	0.80	0.10			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	26/03/2025	26/03/2025	27/03/2025	27/03/2025	26/03/2025	26/03/2025	26/03/2025	27/03/2025	27/03/2025	27/03/2025			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1	LOD/LOR	Units	Method No.
Date of Receipt	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025			
Ethylbenzene [#]	-	-	-	-	-	-	<3	4 ^{SV}	<3	-	<3	ug/kg	TM15/PM10
m/p-Xylene [#]	-	-	-	-	-	-	<5	12 ^{SV}	<5	-	<5	ug/kg	TM15/PM10
o-Xylene [#]	-	-	-	-	-	-	<3	5 ^{SV}	<3	-	<3	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	-	-	-	-	-	-	70	28 ^{SV}	62	-	<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	-	-	-	-	-	-	73	49 ^{SV}	65	-	<0	%	TM15/PM10
SVOC TICs	-	-	-	-	-	-	See Attached	-	See Attached	-		None	TM16/PM8
Pesticides													
Organochlorine Pesticides													
Aldrin	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
Alpha-HCH (BHC)	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
Beta-HCH (BHC)	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
Delta-HCH (BHC)	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
Dieldrin	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
Endosulphan I	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
Endosulphan II	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
Endosulphan sulphate	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
Endrin	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
Gamma-HCH (BHC)	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
Heptachlor	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
Heptachlor Epoxide	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
p,p'-DDE	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
p,p'-DDT	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
p,p'-TDE	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
Total Methoxychlor	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
Organophosphorus Pesticides													
Azinphos methyl	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
Diazinon	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
Dichlorvos	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
Disulfoton	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
Ethion	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
Ethyl Parathion (Parathion)	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
Fenitrothion	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
Malathion	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
Methyl Parathion	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8
Mevinphos	-	-	-	-	-	<10	-	-	-	-	<10	ug/kg	TM42/PM8

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1885
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EMT Job No: 25/5070

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	5-8	13-16	21-24	29-32	61-64	69-72	73-76	77-80	105-108	109-112	Please see attached notes for all abbreviations and acronyms		
Sample ID	WS-P2-104	WS-P2-105C	WS-P2-106	WS-P2-107	WS-P2-109E	BH-P2-105	BH-P2-105	SA-P2-101	TP-P2-104	TP-P2-106			
Depth	3.50-3.90	0.50-0.70	0.70-1.00	0.30-0.50	2.50-3.00	0.00-0.30	1.70-2.00	0.80	0.80	0.10			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	26/03/2025	26/03/2025	27/03/2025	27/03/2025	26/03/2025	26/03/2025	26/03/2025	27/03/2025	27/03/2025	27/03/2025			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025	LOD/LOR	Units	Method No.
Acid Herbicides													
2,3,6-TBA	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM42/PM8
2,4-D	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM42/PM8
2,4-DB	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM42/PM8
2,4,5-T	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM42/PM8
4-CPA	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM42/PM8
Benazolin	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM42/PM8
Bentazone	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM42/PM8
Bromoxynil	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM42/PM8
Clopyralid	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM42/PM8
Dicamba	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM42/PM8
Dichloroprop	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM42/PM8
Diclofop	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM42/PM8
Fenoprop	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM42/PM8
Flamprop	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM42/PM8
Flamprop-isopropyl	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM42/PM8
Ioxynil	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM42/PM8
MCPA	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM42/PM8
MCPB	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM42/PM8
Mecoprop	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM42/PM8
Pentachlorophenol	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM42/PM8
Picloram	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM42/PM8
Triclopyr	-	-	-	-	-	<0.1	-	-	-	-	<0.1	mg/kg	TM42/PM8
Triazine Herbicides													
Atrazine	-	-	-	-	-	<100	-	-	-	-	<100	ug/kg	TM39/PM8
Simazine	-	-	-	-	-	<200	-	-	-	-	<200	ug/kg	TM39/PM8
Mineral Oil (C10-C40) (EH_CU_1D_AL)	-	-	101	-	-	-	70	367	75	<30	<30	mg/kg	TM5/PM8/PM16
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL) #	-	-	-	-	-	-	<0.1	<0.1 ^{sv}	<0.1	-	<0.1	mg/kg	TM36/PM12
>C6-C8 (HS_1D_AL) #	-	-	-	-	-	-	<0.1	<0.1 ^{sv}	<0.1	-	<0.1	mg/kg	TM36/PM12
>C8-C10 (HS_1D_AL)	-	-	-	-	-	-	<0.1	<0.1 ^{sv}	<0.1	-	<0.1	mg/kg	TM36/PM12
>C10-C12 (EH_CU_1D_AL) #	-	-	-	-	-	-	<0.2	27.7	<0.2	-	<0.2	mg/kg	TM5/PM8/PM16
>C12-C16 (EH_CU_1D_AL) #	-	-	-	-	-	-	<4	60	<4	-	<4	mg/kg	TM5/PM8/PM16
>C16-C21 (EH_CU_1D_AL) #	-	-	-	-	-	-	16	74	15	-	<7	mg/kg	TM5/PM8/PM16
>C21-C35 (EH_CU_1D_AL) #	-	-	-	-	-	-	54	165	60	-	<7	mg/kg	TM5/PM8/PM16
>C35-C40 (EH_CU_1D_AL)	-	-	-	-	-	-	<7	40	<7	-	<7	mg/kg	TM5/PM8/PM16
Total aliphatics C5-40 (EH_CU+HS_1D_AL)	-	-	-	-	-	-	70	367	75	-	<26	mg/kg	TM5/PM8/PM16/PM12/PM15

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1885
Location: Bury Interchange South
Contact: Adrian Read
EMT Job No: 25/5070

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	5-8	13-16	21-24	29-32	61-64	69-72	73-76	77-80	105-108	109-112	Please see attached notes for all abbreviations and acronyms		
Sample ID	WS-P2-104	WS-P2-105C	WS-P2-106	WS-P2-107	WS-P2-109E	BH-P2-105	BH-P2-105	SA-P2-101	TP-P2-104	TP-P2-106			
Depth	3.50-3.90	0.50-0.70	0.70-1.00	0.30-0.50	2.50-3.00	0.00-0.30	1.70-2.00	0.80	0.80	0.10			
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T	V J T			
Sample Date	26/03/2025	26/03/2025	27/03/2025	27/03/2025	26/03/2025	26/03/2025	26/03/2025	27/03/2025	27/03/2025	27/03/2025			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	1	1	1	1	1	1	1	1	1	1			
Date of Receipt	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025	LOD/LOR	Units	Method No.
TPH CWG													
Aromatics													
>C5-EC7 (HS_1D_AR) #	-	-	-	-	-	-	<0.1	<0.1 ^{SV}	<0.1	-	<0.1	mg/kg	TM36/PM12
>EC7-EC8 (HS_1D_AR) #	-	-	-	-	-	-	<0.1	<0.1 ^{SV}	<0.1	-	<0.1	mg/kg	TM36/PM12
>EC8-EC10 (HS_1D_AR) #	-	-	-	-	-	-	<0.1	<0.1 ^{SV}	<0.1	-	<0.1	mg/kg	TM36/PM12
>EC10-EC12 (EH_CU_1D_AR) #	-	-	-	-	-	-	<0.2	13.1	<0.2	-	<0.2	mg/kg	TM5/PM8/PM16
>EC12-EC16 (EH_CU_1D_AR) #	-	-	-	-	-	-	<4	67	12	-	<4	mg/kg	TM5/PM8/PM16
>EC16-EC21 (EH_CU_1D_AR) #	-	-	-	-	-	-	24	113	40	-	<7	mg/kg	TM5/PM8/PM16
>EC21-EC35 (EH_CU_1D_AR) #	-	-	-	-	-	-	71	276	183	-	<7	mg/kg	TM5/PM8/PM16
>EC35-EC40 (EH_CU_1D_AR)	-	-	-	-	-	-	<7	53	39	-	<7	mg/kg	TM5/PM8/PM16
Total aromatics C5-40 (EH_CU+HS_1D_AR)	-	-	-	-	-	-	95	522	274	-	<26	mg/kg	TM5/PM8/PM16/PM12/PM10
Total aliphatics and aromatics(C5-40) (EH_CU+HS_1D_Total)	-	-	-	-	-	-	165	889	349	-	<52	mg/kg	TM5/PM8/PM16/PM12/PM10
MTBE #	-	-	<5	-	-	-	-	-	-	-	<5	ug/kg	TM36/PM12
Benzene #	-	-	<5	-	-	-	-	-	-	-	<5	ug/kg	TM36/PM12
Toluene #	-	-	<5	-	-	-	-	-	-	-	<5	ug/kg	TM36/PM12
Ethylbenzene #	-	-	<5	-	-	-	-	-	-	-	<5	ug/kg	TM36/PM12
m/p-Xylene #	-	-	<5	-	-	-	-	-	-	-	<5	ug/kg	TM36/PM12
o-Xylene #	-	-	<5	-	-	-	-	-	-	-	<5	ug/kg	TM36/PM12
PCB 77	-	-	-	-	-	-	<5	<50 ^{AA}	<5	-	<5	ug/kg	TM17/PM8
PCB 81	-	-	-	-	-	-	<5	<50 ^{AA}	<5	-	<5	ug/kg	TM17/PM8
PCB 105	-	-	-	-	-	-	<5	<50 ^{AA}	<5	-	<5	ug/kg	TM17/PM8
PCB 114	-	-	-	-	-	-	<5	<50 ^{AA}	<5	-	<5	ug/kg	TM17/PM8
PCB 118	-	-	-	-	-	-	<5	<50 ^{AA}	<5	-	<5	ug/kg	TM17/PM8
PCB 123	-	-	-	-	-	-	<5	<50 ^{AA}	<5	-	<5	ug/kg	TM17/PM8
PCB 126	-	-	-	-	-	-	<5	<50 ^{AA}	<5	-	<5	ug/kg	TM17/PM8
PCB 156	-	-	-	-	-	-	<5	<50 ^{AA}	<5	-	<5	ug/kg	TM17/PM8
PCB 157	-	-	-	-	-	-	<5	<50 ^{AA}	<5	-	<5	ug/kg	TM17/PM8
PCB 167	-	-	-	-	-	-	<5	<50 ^{AA}	<5	-	<5	ug/kg	TM17/PM8
PCB 169	-	-	-	-	-	-	<5	<50 ^{AA}	<5	-	<5	ug/kg	TM17/PM8
PCB 189	-	-	-	-	-	-	<5	<50 ^{AA}	<5	-	<5	ug/kg	TM17/PM8
Total 12 PCBs	-	-	-	-	-	-	<60	<600 ^{AA}	<60	-	<60	ug/kg	TM17/PM8
PCB 28 #	-	-	<5	-	-	-	<5	<50 ^{AA}	<5	<5	<5	ug/kg	TM17/PM8
PCB 52 #	-	-	<5	-	-	-	<5	<50 ^{AA}	<5	<5	<5	ug/kg	TM17/PM8
PCB 101 #	-	-	<5	-	-	-	<5	<50 ^{AA}	<5	<5	<5	ug/kg	TM17/PM8
PCB 118 #	-	-	<5	-	-	-	<5	<50 ^{AA}	<5	<5	<5	ug/kg	TM17/PM8
PCB 138 #	-	-	<5	-	-	-	<5	<50 ^{AA}	<5	<5	<5	ug/kg	TM17/PM8
PCB 153 #	-	-	<5	-	-	-	<5	<50 ^{AA}	<5	<5	<5	ug/kg	TM17/PM8
PCB 180 #	-	-	<5	-	-	-	<5	<50 ^{AA}	<5	<5	<5	ug/kg	TM17/PM8
Total 7 PCBs #	-	-	<35	-	-	-	<35	<350 ^{AA}	<35	<35	<35	ug/kg	TM17/PM8
Total Phenols HPLC	-	-	<0.15	-	-	-	0.19	<0.15	<0.15	<0.15	<0.15	mg/kg	TM26/PM21B

Solids: V=60g VOC jar. J=250g glass jar. T=plastic tub

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1885
Location: Bury Interchange South
Contact: Adrian Read
EMT Job No: 25/5070

Report : CEN 10:1 1 Batch

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.	21-24	73-76	77-80	105-108	109-112						Please see attached notes for all abbreviations and acronyms		
Sample ID	WS-P2-106	BH-P2-105	SA-P2-101	TP-P2-104	TP-P2-106								
Depth	0.70-1.00	1.70-2.00	0.80	0.80	0.10								
COC No / misc													
Containers	V J T	V J T	V J T	V J T	V J T								
Sample Date	27/03/2025	26/03/2025	27/03/2025	27/03/2025	27/03/2025								
Sample Type	Soil	Soil	Soil	Soil	Soil								
Batch Number	1	1	1	1	1								
Date of Receipt	29/03/2025	29/03/2025	29/03/2025	29/03/2025	29/03/2025						LOD/LOR	Units	Method No.
Dissolved Boron #	-	-	29	-	-						<12	ug/l	TM170/PM14
Dissolved Iron #	-	-	100	-	-						<20	ug/l	TM170/PM14
Dissolved Manganese #	-	-	12	-	-						<2	ug/l	TM170/PM14
TPH CWG													
Aliphatics													
>C5-C6 (HS_1D_AL)	-	-	<10	-	-						<10	ug/l	TM36/PM69
>C6-C8 (HS_1D_AL)	-	-	<10	-	-						<10	ug/l	TM36/PM69
>C8-C10 (HS_1D_AL)	-	-	<10	-	-						<10	ug/l	TM36/PM69
>C10-C12 (EH_CU_1D_AL)	-	-	<5	-	-						<5	ug/l	TM5/PM16/PM30
>C12-C16 (EH_CU_1D_AL)	-	-	<10	-	-						<10	ug/l	TM5/PM16/PM30
>C16-C21 (EH_CU_1D_AL)	-	-	<10	-	-						<10	ug/l	TM5/PM16/PM30
>C21-C35 (EH_CU_1D_AL)	-	-	<10	-	-						<10	ug/l	TM5/PM16/PM30
>C35-C40 (EH_CU_1D_AL)	-	-	<10	-	-						<10	ug/l	TM5/PM16/PM30
Total aliphatics C5-40 (EH_CU+HS_1D_AL)	-	-	<10	-	-						<10	ug/l	TM5/PM16/PM30/PM69
Aromatics													
>C5-EC7 (HS_1D_AR)	-	-	<10	-	-						<10	ug/l	TM36/PM69
>EC7-EC8 (HS_1D_AR)	-	-	<10	-	-						<10	ug/l	TM36/PM69
>EC8-EC10 (HS_1D_AR)	-	-	<10	-	-						<10	ug/l	TM36/PM69
>EC10-EC12 (EH_CU_1D_AR)	-	-	<5	-	-						<5	ug/l	TM5/PM16/PM30
>EC12-EC16 (EH_CU_1D_AR)	-	-	<10	-	-						<10	ug/l	TM5/PM16/PM30
>EC16-EC21 (EH_CU_1D_AR)	-	-	<10	-	-						<10	ug/l	TM5/PM16/PM30
>EC21-EC35 (EH_CU_1D_AR)	-	-	<10	-	-						<10	ug/l	TM5/PM16/PM30
>EC35-EC40 (EH_CU_1D_AR)	-	-	<10	-	-						<10	ug/l	TM5/PM16/PM30
Total aromatics C5-40 (EH_CU+HS_1D_AR)	-	-	<10	-	-						<10	ug/l	TM5/PM16/PM30/PM69
Total aliphatics and aromatics (C5-40) (EH_CU+HS_1D_Total)	-	-	<10	-	-						<10	ug/l	TM5/PM16/PM30/PM69
MTBE	-	-	<5	-	-						<5	ug/l	TM36/PM69
Benzene	-	-	<5	-	-						<5	ug/l	TM36/PM69
Toluene	-	-	<5	-	-						<5	ug/l	TM36/PM69
Ethylbenzene	-	-	<5	-	-						<5	ug/l	TM36/PM69
m/p-Xylene	-	-	<5	-	-						<5	ug/l	TM36/PM69
o-Xylene	-	-	<5	-	-						<5	ug/l	TM36/PM69
Mass of raw test portion	0.1082	0.1134	0.1	0.1191	0.1483							kg	NONE/PM17
Mass of dried test portion	0.09	0.09	0.09	0.09	0.09							kg	NONE/PM17
Ammoniacal Nitrogen as N #	-	-	<0.03	-	-						<0.03	mg/l	TM38/PM0
Free Cyanide #	-	-	<0.01	-	-						<0.01	mg/l	TM89/PM0
Total Cyanide #	-	-	<0.01	-	-						<0.01	mg/l	TM89/PM0
Complex Cyanide	-	-	<0.01	-	-						<0.01	mg/l	TM89/PM0
pH	-	-	7.30	-	-						<0.01	pH units	TM73/PM0

Client Name: Tier Environmental
Reference: TE1885
Location: Bury Interchange South
Contact: Adrian Read
EMT Job No: 25/5070

Please see attached notes for all abbreviations and acronyms

QF-PM 3.1.3 v11

Client Name: Tier Environmental
Reference: TE1885
Location: Bury Interchange South
Contact: Adrian Read
EMT Job No: 25/5070

VOC Report : Solid

EMT Sample No.	73-76	77-80	105-108									
Sample ID	BH-P2-105	SA-P2-101	TP-P2-104									
Depth	1.70-2.00	0.80	0.80									
COC No / misc												
Containers	V J T	V J T	V J T									
Sample Date	26/03/2025	27/03/2025	27/03/2025									
Sample Type	Soil	Soil	Soil									
Batch Number	1	1	1									
Date of Receipt	29/03/2025	29/03/2025	29/03/2025									
	LOD/LOR	Units	Method No.									
VOC MS												
Dichlorodifluoromethane	<2	<2 ^{SV}	<2							<2	ug/kg	TM15/PM10
Methyl Tertiary Butyl Ether #	<2	<2 ^{SV}	<2							<2	ug/kg	TM15/PM10
Chloromethane #	<3	<3 ^{SV}	5							<3	ug/kg	TM15/PM10
Vinyl Chloride	<2	<2 ^{SV}	<2							<2	ug/kg	TM15_A/PM10
Bromomethane	<1	<1 ^{SV}	<1							<1	ug/kg	TM15/PM10
Chloroethane #	<2	<2 ^{SV}	<2							<2	ug/kg	TM15/PM10
Trichlorofluoromethane #	<2	<2 ^{SV}	<2							<2	ug/kg	TM15/PM10
1,1-Dichloroethene (1,1 DCE) #	<6	<6 ^{SV}	<6							<6	ug/kg	TM15/PM10
Dichloromethane (DCM) #	<7	<7 ^{SV}	<7							<7	ug/kg	TM15/PM10
trans-1-2-Dichloroethene #	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
1,1-Dichloroethane #	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
cis-1-2-Dichloroethene #	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
2,2-Dichloropropane	<4	<4 ^{SV}	<4							<4	ug/kg	TM15/PM10
Bromochloromethane #	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
Chloroform #	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
1,1,1-Trichloroethane #	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
1,1-Dichloropropene #	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
Carbon tetrachloride #	<4	<4 ^{SV}	<4							<4	ug/kg	TM15/PM10
1,2-Dichloroethane #	<4	<4 ^{SV}	<4							<4	ug/kg	TM15/PM10
Benzene #	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
Trichloroethene (TCE) #	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
1,2-Dichloropropane #	<6	<6 ^{SV}	<6							<6	ug/kg	TM15/PM10
Dibromomethane #	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
Bromodichloromethane #	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
cis-1-3-Dichloropropene	<4	<4 ^{SV}	<4							<4	ug/kg	TM15/PM10
Toluene #	<3	7 ^{SV}	<3							<3	ug/kg	TM15/PM10
trans-1-3-Dichloropropene	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
1,1,2-Trichloroethane #	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
Tetrachloroethene (PCE) #	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
1,3-Dichloropropane #	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
Dibromochloromethane #	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
1,2-Dibromoethane #	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
Chlorobenzene #	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
1,1,1,2-Tetrachloroethane #	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
Ethylbenzene #	<3	4 ^{SV}	<3							<3	ug/kg	TM15/PM10
m/p-Xylene #	<5	12 ^{SV}	<5							<5	ug/kg	TM15/PM10
o-Xylene #	<3	5 ^{SV}	<3							<3	ug/kg	TM15/PM10
Styrene	<3	<3 ^{SV}	<3							<3	ug/kg	TM15_A/PM10
Bromoform	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
Isopropylbenzene #	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
1,1,2,2-Tetrachloroethane #	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
Bromobenzene	<2	<2 ^{SV}	<2							<2	ug/kg	TM15/PM10
1,2,3-Trichloropropane #	<4	<4 ^{SV}	<4							<4	ug/kg	TM15/PM10
Propylbenzene #	<4	<4 ^{SV}	<4							<4	ug/kg	TM15/PM10
2-Chlorotoluene	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
1,3,5-Trimethylbenzene #	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
4-Chlorotoluene	<3	<3 ^{SV}	<3							<3	ug/kg	TM15/PM10
tert-Butylbenzene #	<5	<5 ^{SV}	<5							<5	ug/kg	TM15/PM10
1,2,4-Trimethylbenzene #	<6	<6 ^{SV}	<6							<6	ug/kg	TM15/PM10
sec-Butylbenzene #	<4	<4 ^{SV}	<4							<4	ug/kg	TM15/PM10
4-Isopropyltoluene	<4	<4 ^{SV}	<4							<4	ug/kg	TM15/PM10
1,3-Dichlorobenzene #	<4	<4 ^{SV}	<4							<4	ug/kg	TM15/PM10
1,4-Dichlorobenzene #	<4	<4 ^{SV}	<4							<4	ug/kg	TM15/PM10
n-Butylbenzene	<4	<4 ^{SV}	<4							<4	ug/kg	TM15/PM10
1,2-Dichlorobenzene #	<4	<4 ^{SV}	<4							<4	ug/kg	TM15/PM10
1,2-Dibromo-3-chloropropane	<4	<4 ^{SV}	<4							<4	ug/kg	TM15/PM10
1,2,4-Trichlorobenzene	<7	<7 ^{SV}	<7							<7	ug/kg	TM15/PM10
Hexachlorobutadiene	<4	<4 ^{SV}	<4							<4	ug/kg	TM15/PM10
Naphthalene	151	<27 ^{SV}	<27							<27	ug/kg	TM15/PM10
1,2,3-Trichlorobenzene	<7	<7 ^{SV}	<7							<7	ug/kg	TM15/PM10
Surrogate Recovery Toluene D8	70	28 ^{SV}	62							<0	%	TM15/PM10
Surrogate Recovery 4-Bromofluorobenzene	73	49 ^{SV}	65							<0	%	TM15/PM10

Please see attached notes for all abbreviations and acronyms

Element Materials Technology

Job number:	25/5070
Sample number:	74
Sample identity:	BH-P2-105
Sample depth:	1.70-2.00
Sample Type:	Soil
Units:	ug/kg

Method: SVOC
Matrix: Solid

Note: Only samples with TICs (if requested) are reported. If TICs were requested but no compounds found they are not reported.

[illegible]

Element Materials Technology

Job number:	25/5070
Sample number:	106
Sample identity:	TP-P2-104
Sample depth:	0.80
Sample Type:	Soil
Units:	ug/kg

Method: SVOC
Matrix: Solid

Note: Only samples with TICs (if requested) are reported. If TICs were requested but no compounds found they are not reported.

[illegible]

Mass of sample taken (kg)	0.1082	Moisture Content Ratio (%) =	20.1
Mass of dry sample (kg) =	0.09	Dry Matter Content Ratio (%) =	83.3
Particle Size <4mm =	>95%		
EMT Job No	25/5070	Landfill Waste Acceptance Criteria Limits Inert Waste Landfill Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill Hazardous Waste Landfill	
Sample No	24		
Client Sample No	WS-P2-106		
Depth/Other	0.70-1.00		
Sample Date	27/03/2025		
Batch No	1		
Solid Waste Analysis			
Total Organic Carbon (%)	4.61	3	5
Loss on Ignition (%)	5.1	-	10
Sum of BTEX (mg/kg)	<0.025	6	-
Sum of 7 PCBs (mg/kg)	<0.035	1	-
Mineral Oil (mg/kg) (EH_CU_1D_AL)	101	500	-
PAH Sum of 17(mg/kg)	251.11	100	-
pH (pH Units)	8.18	-	>6
ANC to pH 7 (mol/kg)	<0.03	-	to be evaluated
ANC to pH 4 (mol/kg)	0.14	-	to be evaluated
Eluate Analysis	10:1 concⁿ leached		Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg mg/kg
	C₁₀ mg/l	A₁₀ mg/kg	
Arsenic	<0.0025	<0.025	0.5
Barium	0.028	0.28	20
Cadmium	<0.0005	<0.005	0.04
Chromium	<0.0015	<0.015	0.5
Copper	<0.007	<0.07	2
Mercury	<0.001	<0.01	0.01
Molybdenum	0.007	0.07	0.5
Nickel	<0.002	<0.02	0.4
Lead	<0.005	<0.05	0.5
Antimony	<0.002	<0.02	0.06
Selenium	<0.003	<0.03	0.1
Zinc	<0.003	<0.03	4
Chloride	0.8	8	800
Fluoride	0.7	7	10
Sulphate as SO ₄	4.6	46	1000
Total Dissolved Solids	93	930	4000
Phenol	<0.01	<0.1	1
Dissolved Organic Carbon	4	40	500

Mass of sample taken (kg)	0.1134	Moisture Content Ratio (%) =	26.1		
Mass of dry sample (kg) =	0.09	Dry Matter Content Ratio (%) =	79.3		
Particle Size <4mm =	>95%				
EMT Job No	25/5070		Landfill Waste Acceptance Criteria Limits		
Sample No	76				
Client Sample No	BH-P2-105		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non- Hazardous Landfill	Hazardous Waste Landfill
Depth/Other	1.70-2.00				
Sample Date	26/03/2025				
Batch No	1				
Solid Waste Analysis					
Total Organic Carbon (%)	3.91				
Loss on Ignition (%)	8.0		-	-	10
Sum of BTEX (mg/kg)	-		6	-	-
Sum of 7 PCBs (mg/kg)	<0.035		1	-	-
Mineral Oil (mg/kg) (EH_CU_1D_AL)	70		500	-	-
PAH Sum of 17(mg/kg)	56.42		100	-	-
pH (pH Units)	7.52		-	>6	-
ANC to pH 7 (mol/kg)	<0.03		-	to be evaluated	to be evaluated
ANC to pH 4 (mol/kg)	0.17		-	to be evaluated	to be evaluated
Eluate Analysis	10:1 conc ⁿ leached		Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg		
	C ₁₀	A ₁₀			
	mg/l	mg/kg	mg/kg		
	Arsenic	0.0042	0.042	0.5	2
Barium	0.061	0.61	20	100	300
Cadmium	<0.0005	<0.005	0.04	1	5
Chromium	<0.0015	<0.015	0.5	10	70
Copper	<0.007	<0.07	2	50	100
Mercury	<0.001	<0.01	0.01	0.2	2
Molybdenum	0.027	0.27	0.5	10	30
Nickel	<0.002	<0.02	0.4	10	40
Lead	<0.005	<0.05	0.5	10	50
Antimony	0.006	0.06	0.06	0.7	5
Selenium	<0.003	<0.03	0.1	0.5	7
Zinc	0.004	0.04	4	50	200
Chloride	0.9	9	800	15000	25000
Fluoride	0.6	6	10	150	500
Sulphate as SO4	33.1	331	1000	20000	50000
Total Dissolved Solids	168	1681	4000	60000	100000
Phenol	<0.01	<0.1	1	-	-
Dissolved Organic Carbon	9	90	500	800	1000

Mass of sample taken (kg)	0.1	Moisture Content Ratio (%) =	11.4
Mass of dry sample (kg) =	0.09	Dry Matter Content Ratio (%) =	89.8
Particle Size <4mm =	>95%		
EMT Job No	25/5070	Landfill Waste Acceptance Criteria Limits Inert Waste Landfill Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill Hazardous Waste Landfill	
Sample No	80		
Client Sample No	SA-P2-101		
Depth/Other	0.80		
Sample Date	27/03/2025		
Batch No	1		
Solid Waste Analysis			
Total Organic Carbon (%)	31.26	3	5
Loss on Ignition (%)	15.1	-	10
Sum of BTEX (mg/kg)	0.028	6	-
Sum of 7 PCBs (mg/kg)	<0.350	1	-
Mineral Oil (mg/kg) (EH_CU_1D_AL)	367	500	-
PAH Sum of 17(mg/kg)	39.05	100	-
pH (pH Units)	7.06	-	>6
ANC to pH 7 (mol/kg)	NDP	-	to be evaluated
ANC to pH 4 (mol/kg)	0.05	-	to be evaluated
Eluate Analysis	10:1 conc ⁿ leached		Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg mg/kg
	C ₁₀ mg/l	A ₁₀ mg/kg	
Arsenic	<0.0025	<0.025	0.5
Barium	0.020	0.20	20
Cadmium	<0.0005	<0.005	0.04
Chromium	<0.0015	<0.015	0.5
Copper	<0.007	<0.07	2
Mercury	<0.001	<0.01	0.01
Molybdenum	0.005	0.05	0.5
Nickel	<0.002	<0.02	0.4
Lead	<0.005	<0.05	0.5
Antimony	<0.002	<0.02	0.06
Selenium	<0.003	<0.03	0.1
Zinc	0.004	0.04	4
Chloride	<0.3	<3	800
Fluoride	<0.3	<3	10
Sulphate as SO ₄	20.0	200	1000
Total Dissolved Solids	58	580	4000
Phenol	<0.01	<0.1	1
Dissolved Organic Carbon	<2	<20	500

Mass of sample taken (kg)	0.1191	Moisture Content Ratio (%) =	32.4
Mass of dry sample (kg) =	0.09	Dry Matter Content Ratio (%) =	75.5
Particle Size <4mm =	>95%		
EMT Job No	25/5070	Landfill Waste Acceptance Criteria Limits	
Sample No	108		
Client Sample No	TP-P2-104		
Depth/Other	0.80		
Sample Date	27/03/2025		
Batch No	1		
Solid Waste Analysis		Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non- Hazardous Landfill
Total Organic Carbon (%)	3.31	3	5
Loss on Ignition (%)	5.6	-	10
Sum of BTEX (mg/kg)	-	6	-
Sum of 7 PCBs (mg/kg)	<0.035	1	-
Mineral Oil (mg/kg) (EH_CU_1D_AL)	75	500	-
PAH Sum of 17(mg/kg)	42.43	100	-
pH (pH Units)	7.86	-	>6
ANC to pH 7 (mol/kg)	NDP	-	to be evaluated
ANC to pH 4 (mol/kg)	0.11	-	to be evaluated
Eluate Analysis	10:1 conc ⁿ leached		Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg
	C ₁₀ mg/l	A ₁₀ mg/kg	
Arsenic	<0.0025	<0.025	0.5
Barium	0.032	0.32	20
Cadmium	<0.0005	<0.005	0.04
Chromium	<0.0015	<0.015	0.5
Copper	<0.007	<0.07	2
Mercury	<0.001	<0.01	0.01
Molybdenum	0.004	0.04	0.5
Nickel	<0.002	<0.02	0.4
Lead	<0.005	<0.05	0.5
Antimony	0.002	0.02	0.06
Selenium	<0.003	<0.03	0.1
Zinc	0.005	0.05	4
Chloride	0.3	3	800
Fluoride	0.6	6	10
Sulphate as SO ₄	4.3	43	1000
Total Dissolved Solids	73	730	4000
Phenol	<0.01	<0.1	1
Dissolved Organic Carbon	5	50	500

Mass of sample taken (kg)	0.1483	Moisture Content Ratio (%) =	64.6
Mass of dry sample (kg) =	0.09	Dry Matter Content Ratio (%) =	60.8
Particle Size <4mm =	>95%		
EMT Job No	25/5070	Landfill Waste Acceptance Criteria Limits Inert Waste Landfill Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill Hazardous Waste Landfill	
Sample No	112		
Client Sample No	TP-P2-106		
Depth/Other	0.10		
Sample Date	27/03/2025		
Batch No	1		
Solid Waste Analysis			
Total Organic Carbon (%)	6.05	3	5
Loss on Ignition (%)	17.7	-	10
Sum of BTEX (mg/kg)	-	6	-
Sum of 7 PCBs (mg/kg)	<0.035	1	-
Mineral Oil (mg/kg) (EH_CU_1D_AL)	<30	500	-
PAH Sum of 17(mg/kg)	17.38	100	-
pH (pH Units)	7.42	-	>6
ANC to pH 7 (mol/kg)	NDP	-	to be evaluated
ANC to pH 4 (mol/kg)	0.11	-	to be evaluated
Eluate Analysis	10:1 concⁿ leached		Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg mg/kg
	C₁₀ mg/l	A₁₀ mg/kg	
Arsenic	<0.0025	<0.025	0.5
Barium	0.016	0.16	20
Cadmium	<0.0005	<0.005	0.04
Chromium	<0.0015	<0.015	0.5
Copper	<0.007	<0.07	2
Mercury	<0.001	<0.01	0.01
Molybdenum	0.002	0.02	0.5
Nickel	<0.002	<0.02	0.4
Lead	<0.005	<0.05	0.5
Antimony	<0.002	<0.02	0.06
Selenium	<0.003	<0.03	0.1
Zinc	0.013	0.13	4
Chloride	0.5	5	800
Fluoride	<0.3	<3	10
Sulphate as SO ₄	<0.5	<5	1000
Total Dissolved Solids	46	460	4000
Phenol	<0.01	<0.1	1
Dissolved Organic Carbon	5	50	500

Client Name: Tier Environmental
Reference: TE1885
Location: Bury Interchange South
Contact: Adrian Read

Note:

Asbestos Screen analysis is carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Detailed Gravimetric Quantification and PCOM Fibre Analysis is carried out in accordance with our documented in-house methods PM042 and TM131 and HSG 248 using Stereo and Polarised Light Microscopy and Phase Contrast Optical Microscopy (PCOM). Asbestos sub-samples are retained for not less than 6 months from the date of analysis unless specifically requested.

The LOQ of the Asbestos Quantification is 0.001% dry fibre of dry mass of sample.

Where the sample is not taken by a Element Materials Technology consultant, Element Materials Technology cannot be responsible for inaccurate or unrepresentative sampling.

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analyst Name	Date Of Analysis	Analysis	Result
25/5070	1	WS-P2-105C	0.00-0.30	12	Simon Postlewhite	17/04/2025	General Description (Bulk Analysis)	Brown soil/stones
					Simon Postlewhite	17/04/2025	Asbestos Fibres	NAD
					Simon Postlewhite	17/04/2025	Asbestos ACM	NAD
					Simon Postlewhite	17/04/2025	Asbestos Type	NAD
25/5070	1	WS-P2-106	0.70-1.00	23	Miriam Silverlock	09/04/2025	General Description (Bulk Analysis)	Brown soil, stones
					Miriam Silverlock	09/04/2025	Asbestos Fibres	Fibre Bundles
					Miriam Silverlock	09/04/2025	Asbestos ACM	NAD
					Miriam Silverlock	09/04/2025	Asbestos Type	Chrysotile
					Remigiusz Blichowski	10/04/2025	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					Remigiusz Blichowski	10/04/2025	Total Detailed Gravimetric Quantification (% Asb)	<0.001 (mass %)
					Remigiusz Blichowski	10/04/2025	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	<0.001 (mass %)
					Remigiusz Blichowski	10/04/2025	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
25/5070	1	WS-P2-107	0.30-0.50	32	Miriam Silverlock	09/04/2025	General Description (Bulk Analysis)	Brown soil, stones
					Miriam Silverlock	09/04/2025	Asbestos Fibres	NAD
					Miriam Silverlock	09/04/2025	Asbestos ACM	NAD
					Miriam Silverlock	09/04/2025	Asbestos Type	NAD
25/5070	1	TP-WS-P2-108	2.40	44	Simon Postlewhite	09/04/2025	General Description (Bulk Analysis)	Brown soil/stones
					Simon Postlewhite	09/04/2025	Asbestos Fibres	NAD
					Simon Postlewhite	09/04/2025	Asbestos ACM	NAD
					Simon Postlewhite	09/04/2025	Asbestos Type	NAD
25/5070	1	WS-P2-111	0.15-0.30	68	Mathew Day	09/04/2025	General Description (Bulk Analysis)	grey gravel stones and bitumen
					Mathew Day	09/04/2025	Asbestos Fibres	NAD
					Mathew Day	09/04/2025	Asbestos ACM	NAD
					Mathew Day	09/04/2025	Asbestos Type	NAD
25/5070	1	BH-P2-105	1.70-2.00	75	Charlotte Taylor	09/04/2025	General Description (Bulk Analysis)	brown soil/stones
					Charlotte Taylor	09/04/2025	Asbestos Fibres	Fibre Bundles
					Charlotte Taylor	09/04/2025	Asbestos Fibres (2)	Fibre Bundles
					Charlotte Taylor	09/04/2025	Asbestos ACM	NAD
					Charlotte Taylor	09/04/2025	Asbestos ACM (2)	NAD
					Charlotte Taylor	09/04/2025	Asbestos Type	Chrysotile
					Charlotte Taylor	09/04/2025	Asbestos Type (2)	Amosite
					Charlotte Taylor	10/04/2025	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					Charlotte Taylor	10/04/2025	Total Detailed Gravimetric Quantification (% Asb)	<0.001 (mass %)

Client Name: Tier Environmental
Reference: TE1885
Location: Bury Interchange South
Contact: Adrian Read

EMT Job No.	Batch	Sample ID	Depth	EMT Sample No.	Analyst Name	Date Of Analysis	Analysis	Result
25/5070	1	BH-P2-105	1.70-2.00	75	Charlotte Taylor	10/04/2025	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	<0.001 (mass %)
					Remigiusz Blichowski	15/04/2025	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
					Remigiusz Blichowski	15/04/2025	Asbestos Gravimetric & PCOM Total	<0.001 (mass %)
25/5070	1	SA-P2-101	0.80	79	Catherine Coles	17/04/2025	General Description (Bulk Analysis)	black dusty soil, coal
					Catherine Coles	17/04/2025	Asbestos Fibres	NAD
					Catherine Coles	17/04/2025	Asbestos ACM	NAD
					Catherine Coles	17/04/2025	Asbestos Type	NAD
25/5070	1	TP-P2-102	0.10	92	Charlotte Taylor	09/04/2025	General Description (Bulk Analysis)	brown soil/stones
					Charlotte Taylor	09/04/2025	Asbestos Fibres	NAD
					Charlotte Taylor	09/04/2025	Asbestos ACM	NAD
					Charlotte Taylor	09/04/2025	Asbestos Type	NAD
25/5070	1	TP-P2-104	0.80	107	Simon Postlewhite	09/04/2025	General Description (Bulk Analysis)	Brown soil/stones
					Simon Postlewhite	09/04/2025	Asbestos Fibres	NAD
					Simon Postlewhite	09/04/2025	Asbestos ACM	NAD
					Simon Postlewhite	09/04/2025	Asbestos Type	NAD
25/5070	1	TP-P2-106	0.10	111	Miriam Silverlock	09/04/2025	General Description (Bulk Analysis)	Brown soil, stones
					Miriam Silverlock	09/04/2025	Asbestos Fibres	NAD
					Miriam Silverlock	09/04/2025	Asbestos ACM	NAD
					Miriam Silverlock	09/04/2025	Asbestos Type	NAD
25/5070	1	TP-P2-107	0.00-0.40	120	Miriam Silverlock	09/04/2025	General Description (Bulk Analysis)	Brown soil, stones
					Miriam Silverlock	09/04/2025	Asbestos Fibres	NAD
					Miriam Silverlock	09/04/2025	Asbestos ACM	NAD
					Miriam Silverlock	09/04/2025	Asbestos Type	NAD
25/5070	1	WS-P2-104	1.00-1.50	128	Charlotte Taylor	09/04/2025	General Description (Bulk Analysis)	brown soil/stones
					Charlotte Taylor	09/04/2025	Asbestos Fibres	Fibre Bundles
					Charlotte Taylor	09/04/2025	Asbestos Fibres (2)	Fibre Bundles
					Charlotte Taylor	09/04/2025	Asbestos ACM	NAD
					Charlotte Taylor	09/04/2025	Asbestos ACM (2)	NAD
					Charlotte Taylor	09/04/2025	Asbestos Type	Chrysotile
					Charlotte Taylor	09/04/2025	Asbestos Type (2)	Amosite
					Charlotte Taylor	10/04/2025	Total ACM Gravimetric Quantification (% Asb)	<0.001 (mass %)
					Charlotte Taylor	10/04/2025	Total Detailed Gravimetric Quantification (% Asb)	<0.001 (mass %)
					Charlotte Taylor	10/04/2025	Total Gravimetric Quantification (ACM + Detailed) (% Asb)	<0.001 (mass %)
					Remigiusz Blichowski	15/04/2025	Asbestos PCOM Quantification (Fibres)	<0.001 (mass %)
					Remigiusz Blichowski	15/04/2025	Asbestos Gravimetric & PCOM Total	<0.001 (mass %)

Matrix : Solid

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Element Materials Technology

Notification of Deviating Samples

Client Name:	Tier Environmental
Reference:	TE1885
Location:	Bury Interchange South
Contact:	Adrian Read

Notification of Deviating Samples

Matrix : Solid

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

It is a requirement under ISO 17025 that we inform clients if samples are deviating i.e. outside what is expected. A deviating sample indicates that the sample 'may' be compromised but not necessarily will be compromised. The result is still accredited and our analytical reports will still show accreditation on the relevant analytes.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 25/5070

SOILS and ASH

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

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 35°C ±5°C.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

Age of Diesel

The age of release estimation is based on the nC17/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996).

Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory are not aware.

Tentatively Identified Compounds (TICs)

Where Tentatively Identified Compounds (TICs) are reported, up to 10 Tentatively Identified Compounds will be listed where there is found to be a greater than 80% match with the NIST library. The reported concentration is determined semi-quantitatively, with a matrix specific limit of detection.

Note, other compounds may be present but are not reported.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range
AA	x10 Dilution

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 25/5070

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35 degrees Celsius or 105 degrees Celsius. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM30	Water samples are extracted with solvent using a magnetic stirrer to create a vortex.			AR	
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM4	Modified USEPA 8270D v5:2014 method for the solvent extraction and determination of PAHs by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM16/PM30	Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE/Water samples are extracted with solvent using a magnetic stirrer to create a vortex.			AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.			AR	Yes
TM5	Modified 8015B v2:1996 method for the determination of solvent Extractable Petroleum Hydrocarbons (EPH) within the range C8-C40 by GCFID. For waters the solvent extracts dissolved phase plus a sheen if present.	PM8/PM16	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required/Fractionation into aliphatic and aromatic fractions using a Rapid Trace SPE.	Yes		AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM16/PM30/PM69	please refer to PM16/PM30 and PM69 for method details			AR	Yes
TM5/TM36	please refer to TM5 and TM36 for method details	PM8/PM12/PM16	please refer to PM8/PM16 and PM12 for method details			AR	Yes

EMT Job No: 25/5070

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM15	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds (VOCs) by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM16	Modified USEPA 8270D v5:2014. Quantitative determination of Semi-Volatile Organic compounds (SVOCs) by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM17	Modified US EPA method 8270D v5:2014. Determination of specific Polychlorinated Biphenyl congeners by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM17	Modified US EPA method 8270D v5:2014. Determination of specific Polychlorinated Biphenyl congeners by GC-MS.	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.	Yes		AR	Yes
TM20	Modified BS 1377-3:1990/USEPA 160.1/3 (TDS/TS: 1971) Gravimetric determination of Total Dissolved Solids/Total Solids	PM0	No preparation is required.			AR	Yes
TM21	Modified BS 7755-3:1995, ISO10694:1995 Determination of Total Organic Carbon or Total Carbon by combustion in an Eltra TOC furnace/analyser in the presence of oxygen. The CO ₂ generated is quantified using infra-red detection. Organic Matter (SOM) calculated as per EA MCERTS Chemical Testing of Soil.	PM24	Preparation of Soil and Marine Sediment Samples for Total Organic Carbon.	Yes		AD	Yes
TM22	Modified BS1377-3:1990 Gravimetric determination of Loss on Ignition by temperature controlled Muffle Furnace (35C-440C). On request modified ASTM D2974-00 LOI (105C-440C)	PM0	No preparation is required.	Yes		AD	Yes
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM0	No preparation is required.			AR	Yes

EMT Job No: 25/5070

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM26	Determination of phenols by Reversed Phased High Performance Liquid Chromatography and Electro-Chemical Detection.	PM21B	As Received samples are extracted in Methanol: Water (60:40) by reciprocal shaker.			AR	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma-Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified			AR	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma-Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 degrees Celsius. Samples containing asbestos are not dried and ground.			AD	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma-Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 degrees Celsius. Samples containing asbestos are not dried and ground.	Yes		AD	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma-Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AD	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM12	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.	Yes		AR	Yes
TM36	Modified US EPA method 8015B v2:1996. Determination of Gasoline Range Organics (GRO) in the carbon chain range of C4-12 by headspace GC-FID. MTBE by GC/FID co-elutes with 3-methylpentane if present and therefore can give a false positive. Positive MTBE results will be re-run using GC-MS to double check, when requested.	PM69	One part soil is mixed with 10 parts water in a vial leaving no headspace. The mixture is shaken and then left to leach for 24 hours before VOC analysis.			AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) - All anions comparable to BS ISO 15923-1: 2013I	PM0	No preparation is required.			AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) - All anions comparable to BS ISO 15923-1: 2013I	PM0	No preparation is required.	Yes		AR	Yes

EMT Job No: 25/5070

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) - All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) - All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) - All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AR	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) - All anions comparable to BS ISO 15923-1: 2013I	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AR	Yes
TM39	Modified US EPA method 8270D v5:2014. Determination of Triazine Herbicides by GC-MS	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM42	Modified US EPA method 8270D v5:2014. Pesticides and herbicides by GC-MS	PM8	End over end extraction of solid samples for organic analysis. The solvent mix varies depending on analysis required.			AR	Yes
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	A hot hydrochloric acid digest is performed on a dried and ground sample, and the resulting liquor is analysed.			AD	Yes
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	A hot hydrochloric acid digest is performed on a dried and ground sample, and the resulting liquor is analysed.	Yes		AD	Yes
TM60	TC/TOC analysis of Waters by High Temperature Combustion followed by NDIR detection. Based on the following modified standard methods: USEPA 9060A (2002), APHA SMEWW 5310B:1999 22nd Edition, ASTM D 7573, and USEPA 415.1.	PM0	No preparation is required.			AR	Yes
TM65	Asbestos Bulk Identification method based on HSG 248 Second edition (2021)	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	

EMT Job No: 25/5070

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM0	No preparation is required.			AR	Yes
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes		AR	No
TM74	Analysis of water soluble boron (20:1 extract) by ICP-OES.	PM32	Hot water soluble boron is extracted from dried and ground samples using a 20:1 ratio.	Yes		AD	Yes
TM77	Modified DDCE/TS method 15364:2006. Determination of Acid Neutralization Capacity by Metrohm automated probe analyser.	PM0	No preparation is required.			AR	No
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM0	No preparation is required.			AR	Yes
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM0	No preparation is required.	Yes		AR	Yes
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM45	As received solid samples are extracted with 1M NaOH by orbital shaker for Cyanide, Sulphide and Thiocyanate analysis.			AR	Yes
TM89	Modified USEPA method OIA-1667 (1999). Determination of cyanide by Flow Injection Analyser. Where WAD cyanides are required a Ligand displacement step is carried out before analysis.	PM45	As received solid samples are extracted with 1M NaOH by orbital shaker for Cyanide, Sulphide and Thiocyanate analysis.	Yes		AR	Yes
TM131	Quantification of Asbestos Fibres and ACM based on HSG 248 Second edition:2021, HSG 264 Second edition:2012, HSE Contract Research Report No.83/1996, MDHS 87:1998, WM3 1st Edition v1.1:2018	PM42	Modified SCA Blue Book V.12 draft 2017 and WM3 1st Edition v1.1:2018. Solid samples undergo a thorough visual inspection for asbestos fibres prior to asbestos identification using TM065.	Yes		AR	Yes
TM170	Determination of Trace Metals by ICP-MS (Inductively Coupled Plasma-Mass Spectrometry): Modified USEPA Method 200.8, Rev. 5.4, 1994; Modified EPA Method 6020A, Rev.1, Feb 2007; Modified BS EN ISO 17294-2:2016	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified	Yes		AR	Yes

EMT Job No: 25/5070

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM173	Analysis of fluoride by ISE (Ion Selective Electrode) using modified ISE method 9214 - 340.2 (EPA 1998)	PM0	No preparation is required.			AR	Yes
NONE	No Method Code	PM17	Modified method BS EN12457-2:2002 As received solid samples are leached with water in a 10:1 water to soil ratio for 24 hours, the moisture content of the sample is included in the ratio.				
NONE	No Method Code	PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35 degrees Celsius or 105 degrees Celsius. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.			AR	
TM15_A	Modified USEPA 8260B v2:1996. Quantitative Determination of Volatile Organic Compounds, Vinyl Chloride & Styrene by Headspace GC-MS.	PM10	Modified US EPA method 5021A v2:2014. Preparation of solid and liquid samples for GC headspace analysis.			AR	Yes

Tier Environmental
Suite 414, Chadwick House
Warrington Rd
Birchwood
Warrington
United Kingdom
WA3 6AE



4225



Attention : Anemone Moore
Date : 14th April, 2025
Your reference : TE1885
Our reference : Test Report 25/5534 Batch 1
Location : Bury Interchange
Date samples received : 4th April, 2025
Status : Final Report
Issue : 202504141658

Three samples were received for analysis on 4th April, 2025 of which one was scheduled for analysis. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

The greenhouse gas emissions generated (in Carbon – Co2e) to obtain the results in this report are estimated as:

Scope 1&2 emissions - 1.955 kg of CO2

Scope 1&2&3 emissions - 4.62 kg of CO2

Authorised By:



Sean English
Project Coordinator

Please include all sections of this report if it is reproduced

Element Materials Technology

Client Name: Tier Environmental
Reference: TE1885
Location: Bury Interchange
Contact: Anemone Moore
EMT Job No: 25/5534

Report : Solid

Solids: V=60g VOC jar, J=250g glass jar, T=plastic tub

EMT Sample No.							3					
Sample ID							BH-P2-104					
Depth							25.7					
COC No / misc												
Containers							T					
Sample Date							<>					
Sample Type							Soil					
Batch Number							1					
Date of Receipt							04/04/2025					
Please see attached notes for all abbreviations and acronyms												
Sulphur as S	0.05									<0.01	%	TM30/PM11
Total Sulphate as SO ₄ BRE	0.01									<0.01	%	TM50/PM29
Magnesium	0.0051									<0.0001	g/l	TM30/PM29
Natural Moisture Content	5.3									<0.1	%	PM4/PM0
Ammoniacal Nitrogen as NH ₄	<0.6									<0.6	mg/kg	TM38/PM29
Chloride (2:1 Ext BRE) #	0.003									<0.002	g/l	TM38/PM29
Nitrate as NO ₃ (2:1 Ext BRE)	<0.0025									<0.0025	g/l	TM38/PM29
Sulphate as SO ₄ (2:1 Ext) #	0.0195									<0.0015	g/l	TM38/PM29
pH #	8.43									<0.01	pH units	TM73/PM11

Element Materials Technology

Notification of Deviating Samples

Notification of Deviating Samples

Client Name: Tier Environmental

Reference: TE1885

Location: Bury Interchange

Contact: Anemone Moore

Matrix : Solid

[illegible]

Please note that only samples that are deviating are mentioned in this report. If no samples are listed it is because none were deviating. Only analyses which are accredited are recorded as deviating if set criteria are not met.

It is a requirement under ISO 17025 that we inform clients if samples are deviating i.e. outside what is expected. A deviating sample indicates that the sample 'may' be compromised but not necessarily will be compromised. The result is still accredited and our analytical reports will still show accreditation on the relevant analytes.

NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

EMT Job No.: 25/5534

SOILS and ASH

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

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 35°C ±5°C.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCl (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overestimate when other sulphides such as Barite (Barium Sulphate) are present.

WATERS

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil is quoted, this refers to Total Aliphatics C10-C40.

STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

DEVIATING SAMPLES

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

DILUTIONS

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

BLANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a requirement of our Accreditation Body for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

Measurement Uncertainty

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

Customer Provided Information

Sample ID and depth is information provided by the customer.

Age of Diesel

The age of release estimation is based on the nC17/pristane ratio only as prescribed by Christensen and Larsen (1993) and Kaplan, Galperin, Alimi et al., (1996).

Age estimation should be treated with caution as it can be influenced by site specific factors of which the laboratory are not aware.

Tentatively Identified Compounds (TICs)

Where Tentatively Identified Compounds (TICs) are reported, up to 10 Tentatively Identified Compounds will be listed where there is found to be a greater than 80% match with the NIST library. The reported concentration is determined semi-quantitatively, with a matrix specific limit of detection.

Note, other compounds may be present but are not reported.

ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above quantitative calibration range. The result should be considered the minimum value and is indicative only. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
CO	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
TB	Trip Blank Sample
OC	Outside Calibration Range

HWOL ACRONYMS AND OPERATORS USED

HS	Headspace Analysis.
EH	Extractable Hydrocarbons - i.e. everything extracted by the solvent.
CU	Clean-up - e.g. by florisil, silica gel.
1D	GC - Single coil gas chromatography.
Total	Aliphatics & Aromatics.
AL	Aliphatics only.
AR	Aromatics only.
2D	GC-GC - Double coil gas chromatography.
#1	EH_Total but with humics mathematically subtracted
#2	EU_Total but with fatty acids mathematically subtracted
_	Operator - underscore to separate acronyms (exception for +).
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total
MS	Mass Spectrometry.

EMT Job No: 25/5534

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
PM4	Gravimetric measurement of Natural Moisture Content and % Moisture Content at either 35 degrees Celsius or 105 degrees Celsius. Calculation based on ISO 11465:1993(E) and BS1377-2:1990.	PM0	No preparation is required.			AR	
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma-Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM15	Acid digestion of dried and ground solid samples using Aqua Regia refluxed at 112.5 degrees Celsius. Samples containing asbestos are not dried and ground.			AD	Yes
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma-Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec.1996; Modified EPA Method 3050B, Rev.2, Dec.1996	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) - All anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) - All anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.	Yes		AD	Yes
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) - All anions comparable to BS ISO 15923-1: 2013	PM20	Extraction of dried and ground or as received samples with deionised water in a 2:1 water to solid ratio using a reciprocal shaker for all analytes except hexavalent chromium. Extraction of as received sample using 10:1 ratio of 0.2M sodium hydroxide to soil for hexavalent chromium using a reciprocal shaker.			AR	Yes
TM50	Acid soluble sulphate (Total Sulphate) analysed by ICP-OES	PM29	A hot hydrochloric acid digest is performed on a dried and ground sample, and the resulting liquor is analysed.			AD	Yes
TM73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM11	Extraction of as received solid samples using one part solid to 2.5 parts deionised water.	Yes		AR	No



Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

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



UMK1F-NR5FQ-2M5UF

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

Report is invalid if pages are removed.

Job name

EMT-25-5070-Batch-1-202504291404

Description/Comments

Project

TE1885

Site

Bury Interchange

Classified by

Name: **Adrian Read**
Date: **02 May 2025 09:51 GMT**
Telephone: **01925 818388**
Company: **Tier Environmental**
Suite 414
Chadwick House
Warrington
WA3 6AE

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

HazWasteOnline™ Certification:

CERTIFIED

Course

Hazardous Waste Classification
Most recent 3 year Refresher

Date

03 Dec 2020
05 Dec 2023

Next 3 year Refresher due by Dec 2026

Purpose of classification

2 - Material Characterisation

Address of the waste

Bury Interchange

Post Code **BL9 0AY**

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Proposed redevelopment of land

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

Waste created during excavation of soils during development

Description of the waste

Made ground and/or natural soils



Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	WS-P2-104-26/03/2025-3.50-3.90m		Non Hazardous		3
2	WS-P2-105C-26/03/2025-0.50-0.70m		Non Hazardous		4
3	WS-P2-106-27/03/2025-0.70-1.00m		Non Hazardous		5
4	WS-P2-107-27/03/2025-0.30-0.50m		Non Hazardous		8
5	WS-P2-109E-26/03/2025-2.50-3.00m		Non Hazardous		9
6	BH-P2-105-26/03/2025-0.00-0.30m		Non Hazardous		10
7	BH-P2-105-26/03/2025-1.70-2.00m		Potentially Hazardous	HP 3(i)	13
8	SA-P2-101-27/03/2025-0.80m		Hazardous	HP 3(i), HP 4, HP 5	19
9	TP-P2-104-27/03/2025-0.80m		Potentially Hazardous	HP 3(i), HP 3(iv)	24
10	TP-P2-106-27/03/2025-0.10m		Non Hazardous		30
11	WS-P2-104-26/03/2025-1.00-1.50m		Non Hazardous		32

Related documents

#	Name	Description
1	EMT-25-5070-Batch-1-202504291404.HWOL	Element .hwol file used to populate the Job
2	Example waste stream template for contaminated soils	waste stream template used to create this Job

Report

Created by: Adrian Read

Created date: 02 May 2025 09:51 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	33
Appendix B: Rationale for selection of metal species	37
Appendix C: Version	38

Classification of sample: WS-P2-104-26/03/2025-3.50-3.90m

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

Sample details

Sample name:	LoW Code:
WS-P2-104-26/03/2025-3.50-3.90m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
9%	Entry:
(dry weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 9% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 pH				8.41 pH		8.41 pH	8.41 pH		
2	 sulfur { sulfur }				500 mg/kg		458.716 mg/kg	0.0459 %	✓	
	016-094-00-1	231-722-6	7704-34-9							
Total:								0.0459 %		

Key

	User supplied data
	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



Classification of sample: WS-P2-105C-26/03/2025-0.50-0.70m



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

Sample details

Sample name: **WS-P2-105C-26/03/2025-0.50-0.70m** LoW Code: Chapter: **17: Construction and Demolition Wastes (including excavated soil from contaminated sites)**
Moisture content: **16%** Entry: **17 05 04 (Soil and stones other than those mentioned in 17 05 03)**
(dry weight correction)

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	pH		PH		7.97 pH		7.97	pH	7.97 pH		
2	sulfur { sulfur }				1100 mg/kg		948.276	mg/kg	0.0948 %	✓	
	016-094-00-1	231-722-6	7704-34-9								
Total:									0.0948 %		

Key

- User supplied data
- 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

Classification of sample: WS-P2-106-27/03/2025-0.70-1.00m

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

Sample details

Sample name:	LoW Code:
WS-P2-106-27/03/2025-0.70-1.00m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15.3% (dry weight correction)	

Hazard properties

None identified

Determinands

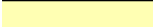
Moisture content: 15.3% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				12.9	mg/kg	1.32	14.772	mg/kg	0.00148 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide }				0.3	mg/kg	3.22	0.838	mg/kg	0.0000838 %	✓	
	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(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				37.6	mg/kg	2.27	74.026	mg/kg	0.0074 %	✓	
	024-017-00-8											
5	copper { dicopper oxide; copper (I) oxide }				57	mg/kg	1.126	55.66	mg/kg	0.00557 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
6	lead { lead chromate }			1	164	mg/kg	1.56	221.864	mg/kg	0.0142 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
7	manganese { manganese sulphate }				482	mg/kg	2.749	1149.009	mg/kg	0.115 %	✓	
	025-003-00-4	232-089-9	7785-87-7									
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 }				23.9	mg/kg	2.976	61.694	mg/kg	0.00617 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				138	mg/kg	2.774	332.031	mg/kg	0.0332 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
12	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
13	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
14	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
15	ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
16	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2]	95-47-6 [1] 106-42-3 [2]									

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
			203-576-3 [3] 215-535-7 [4]	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			PH	8.18 pH		8.18 pH	8.18 pH			
19	naphthalene				2.4 mg/kg		2.082 mg/kg	0.000208 %	✓		
	601-052-00-2	202-049-5	91-20-3								
20	 acenaphthylene				0.48 mg/kg		0.416 mg/kg	0.0000416 %	✓		
		205-917-1	208-96-8								
21	 acenaphthene				5.27 mg/kg		4.571 mg/kg	0.000457 %	✓		
		201-469-6	83-32-9								
22	 fluorene				3.39 mg/kg		2.94 mg/kg	0.000294 %	✓		
		201-695-5	86-73-7								
23	 phenanthrene				34.72 mg/kg		30.113 mg/kg	0.00301 %	✓		
		201-581-5	85-01-8								
24	 anthracene				8.9 mg/kg		7.719 mg/kg	0.000772 %	✓		
		204-371-1	120-12-7								
25	 fluoranthene				45.31 mg/kg		39.297 mg/kg	0.00393 %	✓		
		205-912-4	206-44-0								
26	 pyrene				35.55 mg/kg		30.833 mg/kg	0.00308 %	✓		
		204-927-3	129-00-0								
27	benzo[a]anthracene				18.36 mg/kg		15.924 mg/kg	0.00159 %	✓		
	601-033-00-9	200-280-6	56-55-3								
28	chrysene				18.22 mg/kg		15.802 mg/kg	0.00158 %	✓		
	601-048-00-0	205-923-4	218-01-9								
29	benzo[b]fluoranthene				22.08 mg/kg		19.15 mg/kg	0.00192 %	✓		
	601-034-00-4	205-911-9	205-99-2								
30	benzo[k]fluoranthene				8.59 mg/kg		7.45 mg/kg	0.000745 %	✓		
	601-036-00-5	205-916-6	207-08-9								
31	benzo[a]pyrene; benzo[def]chrysene				19.87 mg/kg		17.233 mg/kg	0.00172 %	✓		
	601-032-00-3	200-028-5	50-32-8								
32	 indeno[123-cd]pyrene				12.61 mg/kg		10.937 mg/kg	0.00109 %	✓		
		205-893-2	193-39-5								
33	dibenz[a,h]anthracene				2.31 mg/kg		2.003 mg/kg	0.0002 %	✓		
	601-041-00-2	200-181-8	53-70-3								
34	 benzo[ghi]perylene				10.79 mg/kg		9.358 mg/kg	0.000936 %	✓		
		205-883-8	191-24-2								
35	 polychlorobiphenyls; PCB				<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %		<LOD	
	602-039-00-4	215-648-1	1336-36-3								
36	 sulfur {  sulfur }				400 mg/kg		346.921 mg/kg	0.0347 %	✓		
	016-094-00-1	231-722-6	7704-34-9								
37	 iron {  iron (III) oxide }				34690 mg/kg	1.43	43016.347 mg/kg	4.302 %	✓		
		215-168-2	1309-37-1								
38	 coronene				2.26 mg/kg		1.96 mg/kg	0.000196 %	✓		
		205-881-7	191-07-1								
39	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD	
	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:									4.541 %		



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: WS-P2-107-27/03/2025-0.30-0.50m



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

Sample details

Sample name: **WS-P2-107-27/03/2025-0.30-0.50m** LoW Code: **17: Construction and Demolition Wastes (including excavated soil from contaminated sites)**
Moisture content: **17%** Chapter: **17 05 04 (Soil and stones other than those mentioned in 17 05 03)**
(dry weight correction) Entry:

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	pH		PH		8.21 pH		8.21	pH	8.21 pH		
2	sulfur { sulfur }				300 mg/kg		256.41	mg/kg	0.0256 %	✓	
	016-094-00-1	231-722-6	7704-34-9								
Total:									0.0256 %		

Key

- User supplied data
- 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

Classification of sample: WS-P2-109E-26/03/2025-2.50-3.00m

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

Sample details

Sample name:	LoW Code:	
WS-P2-109E-26/03/2025-2.50-3.00m	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13.4% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 13.4% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 pH				8.48 pH		8.48 pH	8.48 pH		
2	 sulfur { sulfur }				400 mg/kg		352.734 mg/kg	0.0353 %	✓	
	016-094-00-1	231-722-6	7704-34-9							
Total:								0.0353 %		

Key

	User supplied data
	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

Classification of sample: BH-P2-105-26/03/2025-0.00-0.30m

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

Sample details

Sample name:	LoW Code:
BH-P2-105-26/03/2025-0.00-0.30m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
25.4% (dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 25.4% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	DDT (ISO); clofenotane (INN); dicophane; 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane; dichlorodiphenyltrichloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-045-00-7	200-024-3	50-29-3							
2	hexachlorocyclohexanes, including lindane				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %		<LOD
	602-043-00-6	210-168-9, 200-401-2, 206-270-8, 206-271-3	58-89-9, 319-84-6, 319-85-7, 608-73-1							
3	dieldrin (ISO)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-049-00-9	200-484-5	60-57-1							
4	endrin (ISO); 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4:5,8-dimethanonaphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-051-00-X	200-775-7	72-20-8							
5	heptachlor (ISO); 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-046-00-2	200-962-3	76-44-8							
6	aldrin (ISO)				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-048-00-3	206-215-8	309-00-2							
7	atrazine (ISO); 2-chloro-4-ethylamine-6-isopropylamine-1,3,5-triazine				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	613-068-00-7	217-617-8	1912-24-9							
8	simazine (ISO); 6-chloro-N,N'-diethyl-1,3,5-triazine-2,4-diamine				<0.2 mg/kg		<0.2 mg/kg	<0.00002 %		<LOD
	612-088-00-3	204-535-2	122-34-9							
9	heptachlor epoxide; 2,3-epoxy-1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-063-00-5	213-831-0	1024-57-3							
10	p,p'-DDE				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		200-784-6	72-55-9							
11	p,p'-DDD				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		200-783-0	72-54-8							
12	dichlorvos (ISO); 2,2-dichlorovinyl dimethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-019-00-X	200-547-7	62-73-7							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
13	azinphos-methyl (ISO); O,O-dimethyl-4-oxobenzotriazin-3-ylmethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-039-00-9	201-676-1	36-50-0							
14	diazinon (ISO); O,O-diethyl O-2-isopropyl-6-methylpyrimidin-4-yl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-040-00-4	206-373-8	333-41-5							
15	ethion (ISO); O,O,O',O'-tetraethyl S,S'-methylenedi (phosphorodithioate); diethion				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-047-00-2	209-242-3	563-12-2							
16	parathion (ISO); O,O-diethyl O-4-nitrophenyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-034-00-1	200-271-7	56-38-2							
17	fenitrothion (ISO); O,O-dimethyl O-4-nitro-m-tolyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-054-00-0	204-524-2	122-14-5							
18	malathion (ISO); 1,2-bis(ethoxycarbonyl)ethyl O,O-dimethyl phosphorodithioate; [containing £ 0.03 % isomalathion]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-041-00-X	204-497-7	121-75-5							
19	parathion - methyl (ISO); O,O-dimethyl O-4-nitrophenyl phosphorothioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-035-00-7	206-050-1	298-00-0							
20	mevinphos (ISO); 2-methoxycarbonyl-1-methylvinyl dimethyl phosphate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-020-00-5	232-095-1	7786-34-7							
21	p,p'-methoxychlor				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		200-779-9	72-43-5							
22	disulfoton (ISO); O,O-diethyl 2-ethylthioethyl phosphorodithioate				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	015-060-00-3	206-054-3	298-04-4							
23	benazolin (ISO); 4-chloro-2,3-dihydro-2-oxo-1,3-benzothiazol-3-ylacetic acid				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	607-153-00-8	223-297-0	3813-05-6							
24	bentazone (ISO); 3-isopropyl-2,1,3-benzothiadiazine-4-one-2,2-dioxide				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	613-012-00-1	246-585-8	25057-89-0							
25	bromoxynil (ISO); 3,5-dibromo-4-hydroxybenzonitrile; bromoxynil phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	608-006-00-0	216-882-7	1689-84-5							
26	clopyralid (ISO); 3,6-dichloropyridine-2-carboxylic acid				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	607-231-00-1	216-935-4	1702-17-6							
27	4-CPA (ISO); 4-chlorophenoxyacetic acid				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	607-073-00-3	204-581-3	122-88-3							
28	2,4-D (ISO); 2,4-dichlorophenoxyacetic acid				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	607-039-00-8	202-361-1	94-75-7							
29	dicamba (ISO); 2,5-dichloro-6-methoxybenzoic acid; 3,6-dichloro-2-methoxybenzoic acid				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	607-043-00-X	217-635-6	1918-00-9							
30	dichlorprop (ISO); 2-(2,4-dichlorophenoxy) propionic acid				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	607-045-00-0	204-390-5	120-36-5							
31	fenoprop (ISO); 2-(2,4,5-trichlorophenoxy)propionic acid				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	607-047-00-1	202-271-2	93-72-1							
32	ioxynil (ISO); 4-hydroxy-3,5-diiodobenzonitrile				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	608-007-00-6	216-881-1	1689-83-4							
33	MCPA (ISO); 4-chloro-o-tolylxyacetic acid				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	607-051-00-3	202-360-6	94-74-6							
34	MCPB (ISO); 4-(4-chloro-o-tolylxy) butyric acid				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	607-053-00-4	202-365-3	94-81-5							



#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
35	mecoprop (ISO); 2-(4-chloro-o-tolyloxy) propionic acid; (RS)-2-(4-chloro-o-tolyloxy)propionic acid; [1] 2-(4-chloro-2-methylphenoxy)propionic acid [2]				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD	
	607-049-00-2	230-386-8 [1] 202-264-4 [2]	7085-19-0 [1] 7085-19-0 [2]								
36	pentachlorophenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD	
	604-002-00-8	201-778-6	87-86-5								
37	2,4,5-T (ISO); 2,4,5-trichlorophenoxy acetic acid				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD	
	607-041-00-9	202-273-3	93-76-5								
38	2,3,6-TBA (ISO); 2,3,6-trichlorobenzoic acid				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD	
	607-152-00-2	200-026-4	50-31-7								
39	endosulfan (ISO); 1,2,3,4,7,7-hexachloro-8,9,10-trinorborn-2-en-5,6-ylenedimethylene sulfite; 1,4,5,6,7,7-hexachloro-8,9,10-trinorborn-5-en-2,3-ylenedimethylene sulfite				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD	
	602-052-00-5	204-079-4	115-29-7								
Total:								0%			

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: BH-P2-105-26/03/2025-1.70-2.00m

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
BH-P2-105-26/03/2025-1.70-2.00m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
19.7%	Entry:
(dry weight correction)	17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)

Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0138%)

Determinands

Moisture content: 19.7% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				11.4	mg/kg	1.32	12.575	mg/kg	0.00126 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide }				1	mg/kg	3.22	2.69	mg/kg	0.000269 %	✓	
	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(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				35.8	mg/kg	2.27	67.891	mg/kg	0.00679 %	✓	
	024-017-00-8											
5	copper { dicopper oxide; copper (I) oxide }				39	mg/kg	1.126	36.683	mg/kg	0.00367 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
6	lead { lead chromate }			1	67	mg/kg	1.56	87.308	mg/kg	0.0056 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
7	manganese { manganese sulphate }				654	mg/kg	2.749	1501.722	mg/kg	0.15 %	✓	
	025-003-00-4	232-089-9	7785-87-7									
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 }				21.4	mg/kg	2.976	53.21	mg/kg	0.00532 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { nickel selenate }				2	mg/kg	2.554	4.267	mg/kg	0.000427 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				94	mg/kg	2.774	217.853	mg/kg	0.0218 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group				165	mg/kg		137.845	mg/kg	0.0138 %	✓	
			TPH									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								
14	benzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
15	toluene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
16	ethylbenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.011 mg/kg		<0.011 mg/kg	<0.0000011 %			<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]								
18	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										
19	pH				7.52 pH		7.52 pH	7.52 pH			
			PH								
20	naphthalene				1.38 mg/kg		1.153 mg/kg	0.000115 %		✓	
	601-052-00-2	202-049-5	91-20-3								
21	acenaphthylene				0.11 mg/kg		0.0919 mg/kg	0.00000919 %		✓	
		205-917-1	208-96-8								
22	acenaphthene				1.32 mg/kg		1.103 mg/kg	0.00011 %		✓	
		201-469-6	83-32-9								
23	fluorene				0.71 mg/kg		0.593 mg/kg	0.0000593 %		✓	
		201-695-5	86-73-7								
24	phenanthrene				6.09 mg/kg		5.088 mg/kg	0.000509 %		✓	
		201-581-5	85-01-8								
25	anthracene				1.62 mg/kg		1.353 mg/kg	0.000135 %		✓	
		204-371-1	120-12-7								
26	fluoranthene				10.25 mg/kg		8.563 mg/kg	0.000856 %		✓	
		205-912-4	206-44-0								
27	pyrene				8.27 mg/kg		6.909 mg/kg	0.000691 %		✓	
		204-927-3	129-00-0								
28	benzo[a]anthracene				4.02 mg/kg		3.358 mg/kg	0.000336 %		✓	
	601-033-00-9	200-280-6	56-55-3								
29	chrysene				4.23 mg/kg		3.534 mg/kg	0.000353 %		✓	
	601-048-00-0	205-923-4	218-01-9								
30	benzo[b]fluoranthene				5.26 mg/kg		4.394 mg/kg	0.000439 %		✓	
	601-034-00-4	205-911-9	205-99-2								
31	benzo[k]fluoranthene				2.05 mg/kg		1.713 mg/kg	0.000171 %		✓	
	601-036-00-5	205-916-6	207-08-9								
32	benzo[a]pyrene; benzo[def]chrysene				4.63 mg/kg		3.868 mg/kg	0.000387 %		✓	
	601-032-00-3	200-028-5	50-32-8								
33	indeno[123-cd]pyrene				2.69 mg/kg		2.247 mg/kg	0.000225 %		✓	
		205-893-2	193-39-5								
34	dibenz[a,h]anthracene				0.65 mg/kg		0.543 mg/kg	0.0000543 %		✓	
	601-041-00-2	200-181-8	53-70-3								
35	benzo[ghi]perylene				2.6 mg/kg		2.172 mg/kg	0.000217 %		✓	
		205-883-8	191-24-2								
36	phenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
37	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %			<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3								
38	tetrachloroethylene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	602-028-00-4	204-825-9	127-18-4								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
39	carbon tetrachloride; tetrachloromethane				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-008-00-5	200-262-8	56-23-5							
40	trichloroethylene; trichloroethene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-027-00-9	201-167-4	79-01-6							
41	vinyl chloride; chloroethylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-023-00-7	200-831-0	75-01-4							
42	hexachlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-065-00-6	204-273-9	118-74-1							
43	polychlorobiphenyls; PCB				<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
44	sulfur { sulfur }				1200 mg/kg		1002.506 mg/kg	0.1 %	✓	
	016-094-00-1	231-722-6	7704-34-9							
45	iron { iron (III) oxide }				25950 mg/kg	1.43	30995.721 mg/kg	3.1 %	✓	
		215-168-2	1309-37-1							
46	coronene				0.54 mg/kg		0.451 mg/kg	0.0000451 %	✓	
		205-881-7	191-07-1							
47	asbestos				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
	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							
48	pentachlorophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-002-00-8	201-778-6	87-86-5							
49	dichlorodifluoromethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		200-893-9	75-71-8							
50	chloromethane; methyl chloride				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-001-00-7	200-817-4	74-87-3							
51	bromomethane; methylbromide				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	602-002-00-2	200-813-2	74-83-9							
52	chloroethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-009-00-0	200-830-5	75-00-3							
53	trichlorofluoromethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		200-892-3	75-69-4							
54	1,1-dichloroethylene; vinylidene chloride				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
	602-025-00-8	200-864-0	75-35-4							
55	dichloromethane; methylene chloride				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
	602-004-00-3	200-838-9	75-09-2							
56	2,2-dichloropropane				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		209-832-0	594-20-7							
57	bromochloromethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		200-826-3	74-97-5							
58	chloroform; trichloromethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-006-00-4	200-663-8	67-66-3							
59	1,1,1-trichloroethane; methyl chloroform				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-013-00-2	200-756-3	71-55-6							
60	1,1-dichloropropene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
61	1,2-dichloropropane; propylene dichloride				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
62	dibromomethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
63	bromodichloromethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		200-856-7	75-27-4							
64	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
65	trans-1,3-dichloropropene	431-460-4	10061-02-6		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
66	1,1,2-trichloroethane	602-014-00-8	201-166-9		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
67	1,3-dichloropropane	205-531-3	142-28-9		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
68	dibromochloromethane	204-704-0	124-48-1		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
69	1,2-dibromoethane	602-010-00-6	203-444-5		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
70	chlorobenzene	602-033-00-1	203-628-5		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
71	1,1,1,2-tetrachloroethane	211-135-1	630-20-6		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
72	bromoform; tribromomethane	602-007-00-X	200-854-6		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
73	cumene	601-024-00-X	202-704-5		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
74	1,1,1,2-tetrachloroethane	602-015-00-3	201-197-8		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
75	bromobenzene	602-060-00-9	203-623-8		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
76	1,2,3-trichloropropane	602-062-00-X	202-486-1		<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
77	propylbenzene	601-097-00-8	203-132-9		<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
78	mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
79	tert-butylbenzene	202-632-4	98-06-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
80	1,2,4-trimethylbenzene	601-043-00-3	202-436-9		<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
81	sec-butylbenzene	205-227-0	135-98-8		<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
82	1-isopropyl-4-methylbenzene; p-cymene	601-094-00-1	202-796-7		<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
83	1,3-dichlorobenzene	602-067-00-7	208-792-1		<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
84	1,4-dichlorobenzene; p-dichlorobenzene	602-035-00-2	203-400-5		<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
85	n-butylbenzene	203-209-7	104-51-8		<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
86	1,2-dichlorobenzene; o-dichlorobenzene	602-034-00-7	202-425-9		<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
87	1,2-dibromo-3-chloropropane	602-021-00-6	202-479-3		<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
88	1,2,4-trichlorobenzene	602-087-00-6	204-428-0		<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
89	hexachlorobutadiene	201-765-5	87-68-3		<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
90	1,2,3-trichlorobenzene	201-757-1	87-61-6		<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
91	styrene	601-026-00-0	202-851-5		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
92	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]		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD

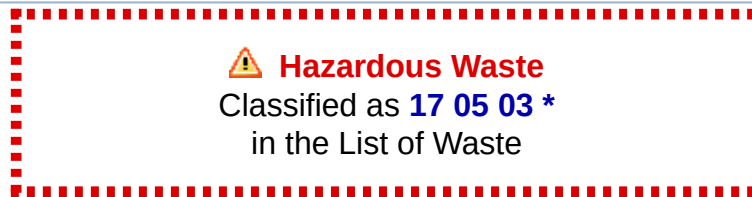
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
93	2-nitrophenol	201-857-5	88-75-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
94	2,4-dichlorophenol	604-011-00-7	204-429-6	120-83-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
95	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]	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]	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
96	2,4,5-trichlorophenol	604-017-00-X	202-467-8	95-95-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
97	2,4,6-trichlorophenol	604-018-00-5	201-795-9	88-06-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
98	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol	604-014-00-3	200-431-6	59-50-7	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
99	4-nitrophenol; p-nitrophenol	609-015-00-2	202-811-7	100-02-7	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
100	2-chloronaphthalene	202-079-9	91-58-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
101	2-methyl naphthalene	202-078-3	91-57-6		0.124 mg/kg		0.104 mg/kg	0.0000104 %	✓	
102	bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP	607-317-00-9	204-211-0	117-81-7	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
103	BBP; benzyl butyl phthalate	607-430-00-3	201-622-7	85-68-7	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
104	dibutyl phthalate; DBP	607-318-00-4	201-557-4	84-74-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
105	di-n-octyl phthalate	204-214-7	117-84-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
106	diethyl phthalate	201-550-6	84-66-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
107	dimethyl phthalate	205-011-6	131-11-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
108	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]	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
109	2,6-dinitrotoluene	609-049-00-8	210-106-0	606-20-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
110	4-bromophenylphenylether	202-952-4	101-55-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
111	4-chloroaniline	612-137-00-9	203-401-0	106-47-8	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
112	4-chlorophenylphenylether	230-281-7	7005-72-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
113	azobenzene	611-001-00-6	203-102-5	103-33-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
114	bis(2-chloroethoxy)methane	203-920-2	111-91-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
115	bis(2-chloroethyl) ether	603-029-00-2	203-870-1	111-44-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
116	carbazole	201-696-0	86-74-8		0.317 mg/kg		0.265 mg/kg	0.0000265 %	✓	
117	dibenzofuran	205-071-3	132-64-9		0.279 mg/kg		0.233 mg/kg	0.0000233 %	✓	

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
118	hexachlorocyclopentadiene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-078-00-7	201-029-3	77-47-4							
119	hexachloroethane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		200-666-4	67-72-1							
120	3,5,5-trimethylcyclohex-2-enone; isophorone				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	606-012-00-8	201-126-0	78-59-1							
121	nitrosodipropylamine				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	612-098-00-8	210-698-0	621-64-7							
122	nitrobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	609-003-00-7	202-716-0	98-95-3							
123	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
	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]							
124	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]							
125	m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
	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]							
126	o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
	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]							
Total:								3.414 %		

Key

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

Classification of sample: SA-P2-101-27/03/2025-0.80m



Sample details

Sample name:	LoW Code:	
SA-P2-101-27/03/2025-0.80m	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
0.2% (dry weight correction)		

Hazard properties

HP 4: Irritant - skin irritation and eye damage "waste which on application can cause skin irritation or damage to the eye"

Hazard Statements hit:

Skin Irrit. 2; H315 "Causes skin irritation."

Because of determinand:

iron (III) oxide (compound conc.: 39.796%)

Eye Irrit. 2; H319 "Causes serious eye irritation."

Because of determinand:

iron (III) oxide (compound conc.: 39.796%)

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 SE 3; H335 "May cause respiratory irritation."

Because of determinand:

iron (III) oxide (compound conc.: 39.796%)

Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinands:

toluene (conc.: 6.99e-07%)

ethylbenzene (conc.: 3.99e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group (conc.: 0.0887%)

xylene (conc.: 2.2e-06%)

Determinands

Moisture content: 0.2% Dry Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number							
1		arsenic { arsenic trioxide }				22.8 mg/kg	1.32	30.043 mg/kg	0.003 %	✓	
		033-003-00-0	215-481-4	1327-53-3							
2		boron { diboron trioxide }				1 mg/kg	3.22	3.213 mg/kg	0.000321 %	✓	
		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(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				191.5 mg/kg	2.27	433.837 mg/kg	0.0434 %	✓	
		024-017-00-8									
5		copper { dicopper oxide; copper (I) oxide }				151 mg/kg	1.126	169.67 mg/kg	0.017 %	✓	
		029-002-00-X	215-270-7	1317-39-1							
6		lead { lead chromate }			1	53 mg/kg	1.56	82.505 mg/kg	0.00529 %	✓	
		082-004-00-2	231-846-0	7758-97-6							
7		manganese { manganese sulphate }				6753 mg/kg	2.749	18524.004 mg/kg	1.852 %	✓	
		025-003-00-4	232-089-9	7785-87-7							
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 }				22.8 mg/kg	2.976	67.723 mg/kg	0.00677 %	✓	
		028-035-00-7	238-766-5	14721-18-7							
10		selenium { nickel selenate }				8 mg/kg	2.554	20.39 mg/kg	0.00204 %	✓	
		028-031-00-5	239-125-2	15060-62-5							
11		zinc { zinc chromate }				48 mg/kg	2.774	132.893 mg/kg	0.0133 %	✓	
		024-007-00-3	236-878-9	13530-65-9							
12		TPH (C6 to C40) petroleum group				889 mg/kg		887.226 mg/kg	0.0887 %	✓	
				TPH							
13		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
		603-181-00-X	216-653-1	1634-04-4							
14		benzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		601-020-00-8	200-753-7	71-43-2							
15		toluene				0.007 mg/kg		0.0069 mg/kg	0.00000699 %	✓	
		601-021-00-3	203-625-9	108-88-3							
16		ethylbenzene				0.004 mg/kg		0.0039 mg/kg	0.00000399 %	✓	
		601-023-00-4	202-849-4	100-41-4							
17		xylene				0.022 mg/kg		0.022 mg/kg	0.0000022 %	✓	
		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]							
18		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									
19		pH				7.74 pH		7.74 pH	7.74 pH		
				PH							
20		naphthalene				2.54 mg/kg		2.535 mg/kg	0.000253 %	✓	
		601-052-00-2	202-049-5	91-20-3							
21		acenaphthylene				0.28 mg/kg		0.279 mg/kg	0.0000279 %	✓	
			205-917-1	208-96-8							
22		acenaphthene				0.39 mg/kg		0.389 mg/kg	0.0000389 %	✓	
			201-469-6	83-32-9							
23		fluorene				0.7 mg/kg		0.699 mg/kg	0.0000699 %	✓	
			201-695-5	86-73-7							
24		phenanthrene				5.62 mg/kg		5.609 mg/kg	0.000561 %	✓	
			201-581-5	85-01-8							
25		anthracene				1.06 mg/kg		1.058 mg/kg	0.000106 %	✓	
			204-371-1	120-12-7							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
26	fluoranthene	205-912-4	206-44-0		4.55 mg/kg		4.541 mg/kg	0.000454 %	✓	
27	pyrene	204-927-3	129-00-0		3.81 mg/kg		3.802 mg/kg	0.00038 %	✓	
28	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3	2.61 mg/kg		2.605 mg/kg	0.00026 %	✓	
29	chrysene	601-048-00-0	205-923-4	218-01-9	2.73 mg/kg		2.725 mg/kg	0.000272 %	✓	
30	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2	3.6 mg/kg		3.593 mg/kg	0.000359 %	✓	
31	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9	1.4 mg/kg		1.397 mg/kg	0.00014 %	✓	
32	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8	4.15 mg/kg		4.142 mg/kg	0.000414 %	✓	
33	indeno[123-cd]pyrene	205-893-2	193-39-5		2.49 mg/kg		2.485 mg/kg	0.000249 %	✓	
34	dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3	0.57 mg/kg		0.569 mg/kg	0.0000569 %	✓	
35	benzo[ghi]perylene	205-883-8	191-24-2		2.2 mg/kg		2.196 mg/kg	0.00022 %	✓	
36	1,1-dichloroethane and 1,2-dichloroethane (combined)	203-458-1, 200-863-5	107-06-2, 75-34-3		<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
37	tetrachloroethylene	602-028-00-4	204-825-9	127-18-4	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
38	carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5	<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
39	trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
40	vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
41	polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3	<0.35 mg/kg		<0.35 mg/kg	<0.000035 %		<LOD
42	iron { iron (III) oxide }	215-168-2	1309-37-1		278900 mg/kg	1.43	397959.913 mg/kg	39.796 %	✓	
43	coronene	205-881-7	191-07-1		0.35 mg/kg		0.349 mg/kg	0.0000349 %	✓	
44	dichlorodifluoromethane	200-893-9	75-71-8		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
45	chloromethane; methyl chloride	602-001-00-7	200-817-4	74-87-3	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
46	bromomethane; methylbromide	602-002-00-2	200-813-2	74-83-9	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
47	chloroethane	602-009-00-0	200-830-5	75-00-3	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
48	trichlorofluoromethane	200-892-3	75-69-4		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
49	1,1-dichloroethylene; vinylidene chloride	602-025-00-8	200-864-0	75-35-4	<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
50	dichloromethane; methylene chloride	602-004-00-3	200-838-9	75-09-2	<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
51	2,2-dichloropropane	209-832-0	594-20-7		<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
52	bromochloromethane	200-826-3	74-97-5		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
53	chloroform; trichloromethane	602-006-00-4	200-663-8	67-66-3	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
54	1,1,1-trichloroethane; methyl chloroform	602-013-00-2	200-756-3	71-55-6	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
55	1,1-dichloropropene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-031-00-0	209-253-3	563-58-6							
56	1,2-dichloropropene; propylene dichloride				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
	602-020-00-0	201-152-2	78-87-5							
57	dibromomethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-003-00-8	200-824-2	74-95-3							
58	bromodichloromethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		200-856-7	75-27-4							
59	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]							
60	trans-1,3-dichloropropene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		431-460-4	10061-02-6							
61	1,1,2-trichloroethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
62	1,3-dichloropropane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		205-531-3	142-28-9							
63	dibromochloromethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		204-704-0	124-48-1							
64	1,2-dibromoethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
65	chlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-033-00-1	203-628-5	108-90-7							
66	1,1,1,2-tetrachloroethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		211-135-1	630-20-6							
67	bromoform; tribromomethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-007-00-X	200-854-6	75-25-2							
68	cumene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	601-024-00-X	202-704-5	98-82-8							
69	1,1,2,2-tetrachloroethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
70	bromobenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
71	1,2,3-trichloropropane				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
72	propylbenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	601-097-00-8	203-132-9	103-65-1							
73	mesitylene; 1,3,5-trimethylbenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	601-025-00-5	203-604-4	108-67-8							
74	tert-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		202-632-4	98-06-6							
75	1,2,4-trimethylbenzene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
76	sec-butylbenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		205-227-0	135-98-8							
77	1-isopropyl-4-methylbenzene; p-cymene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	601-094-00-1	202-796-7	99-87-6							
78	1,3-dichlorobenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
79	1,4-dichlorobenzene; p-dichlorobenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
80	n-butylbenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		203-209-7	104-51-8							
81	1,2-dichlorobenzene; o-dichlorobenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
82	1,2-dibromo-3-chloropropane				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
83	1,2,4-trichlorobenzene				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
	602-087-00-6	204-428-0	120-82-1							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
84	hexachlorobutadiene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		201-765-5	87-68-3							
85	1,2,3-trichlorobenzene				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
		201-757-1	87-61-6							
86	styrene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	601-026-00-0	202-851-5	100-42-5							
87	1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
	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]							
88	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]							
Total:								41.832 %		

Key

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

Classification of sample: TP-P2-104-27/03/2025-0.80m

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
TP-P2-104-27/03/2025-0.80m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
17.1%	Entry:
(dry weight correction)	17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)

Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0298%)

HP 3(iv): Flammable "flammable gaseous waste: gaseous waste which is flammable in air at 20°C and a standard pressure of 101.3 kPa"

Hazard Statements hit:

Flam. Gas 1; H220 "Extremely flammable gas."

Because of determinand:

chloromethane; methyl chloride (conc.: 4.27e-07%)

Determinands

Moisture content: 17.1% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				20.4 mg/kg	1.32	23.001 mg/kg	0.0023 %	✓		
	033-003-00-0	215-481-4	1327-53-3								
2	boron { diboron trioxide }				0.3 mg/kg	3.22	0.825 mg/kg	0.0000825 %	✓		
	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(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				33.1 mg/kg	2.27	64.165 mg/kg	0.00642 %	✓		
	024-017-00-8										
5	copper { dicopper oxide; copper (I) oxide }				56 mg/kg	1.126	53.843 mg/kg	0.00538 %	✓		
	029-002-00-X	215-270-7	1317-39-1								
6	lead { lead chromate }			1	122 mg/kg	1.56	162.508 mg/kg	0.0104 %	✓		
	082-004-00-2	231-846-0	7758-97-6								
7	manganese { manganese sulphate }				167 mg/kg	2.749	391.981 mg/kg	0.0392 %	✓		
	025-003-00-4	232-089-9	7785-87-7								
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 }				18.7 mg/kg	2.976	47.529 mg/kg	0.00475 %	✓		
	028-035-00-7	238-766-5	14721-18-7								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
10	selenium { nickel selenate }				1 mg/kg	2.554	2.181	mg/kg	0.000218 %	✓	
	028-031-00-5	239-125-2	15060-62-5								
11	zinc { zinc chromate }				153 mg/kg	2.774	362.463	mg/kg	0.0362 %	✓	
	024-007-00-3	236-878-9	13530-65-9								
12	TPH (C6 to C40) petroleum group				349 mg/kg		298.036	mg/kg	0.0298 %	✓	
			TPH								
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.002 mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
	603-181-00-X	216-653-1	1634-04-4								
14	benzene				<0.003 mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
	601-020-00-8	200-753-7	71-43-2								
15	toluene				<0.003 mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
	601-021-00-3	203-625-9	108-88-3								
16	ethylbenzene				<0.003 mg/kg		<0.003	mg/kg	<0.0000003 %		<LOD
	601-023-00-4	202-849-4	100-41-4								
17	xylene				<0.011 mg/kg		<0.011	mg/kg	<0.0000011 %		<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]								
18	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										
19	pH				7.86 pH		7.86	pH	7.86 pH		
			PH								
20	naphthalene				0.21 mg/kg		0.179	mg/kg	0.0000179 %	✓	
	601-052-00-2	202-049-5	91-20-3								
21	acenaphthylene				0.15 mg/kg		0.128	mg/kg	0.0000128 %	✓	
		205-917-1	208-96-8								
22	acenaphthene				0.74 mg/kg		0.632	mg/kg	0.0000632 %	✓	
		201-469-6	83-32-9								
23	fluorene				0.44 mg/kg		0.376	mg/kg	0.0000376 %	✓	
		201-695-5	86-73-7								
24	phenanthrene				5.3 mg/kg		4.526	mg/kg	0.000453 %	✓	
		201-581-5	85-01-8								
25	anthracene				1.29 mg/kg		1.102	mg/kg	0.00011 %	✓	
		204-371-1	120-12-7								
26	fluoranthene				7.63 mg/kg		6.516	mg/kg	0.000652 %	✓	
		205-912-4	206-44-0								
27	pyrene				6.5 mg/kg		5.551	mg/kg	0.000555 %	✓	
		204-927-3	129-00-0								
28	benzo[a]anthracene				3.06 mg/kg		2.613	mg/kg	0.000261 %	✓	
	601-033-00-9	200-280-6	56-55-3								
29	chrysene				3.44 mg/kg		2.938	mg/kg	0.000294 %	✓	
	601-048-00-0	205-923-4	218-01-9								
30	benzo[b]fluoranthene				3.87 mg/kg		3.305	mg/kg	0.00033 %	✓	
	601-034-00-4	205-911-9	205-99-2								
31	benzo[k]fluoranthene				1.5 mg/kg		1.281	mg/kg	0.000128 %	✓	
	601-036-00-5	205-916-6	207-08-9								
32	benzo[a]pyrene; benzo[def]chrysene				3.52 mg/kg		3.006	mg/kg	0.000301 %	✓	
	601-032-00-3	200-028-5	50-32-8								
33	indeno[123-cd]pyrene				1.94 mg/kg		1.657	mg/kg	0.000166 %	✓	
		205-893-2	193-39-5								
34	dibenz[a,h]anthracene				0.46 mg/kg		0.393	mg/kg	0.0000393 %	✓	
	601-041-00-2	200-181-8	53-70-3								
35	benzo[ghi]perylene				1.99 mg/kg		1.699	mg/kg	0.00017 %	✓	
		205-883-8	191-24-2								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
36	phenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
37	1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %			<LOD
		203-458-1, 200-863-5	107-06-2, 75-34-3								
38	tetrachloroethylene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	602-028-00-4	204-825-9	127-18-4								
39	carbon tetrachloride; tetrachloromethane				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %			<LOD
	602-008-00-5	200-262-8	56-23-5								
40	trichloroethylene; trichloroethene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	602-027-00-9	201-167-4	79-01-6								
41	vinyl chloride; chloroethylene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	602-023-00-7	200-831-0	75-01-4								
42	hexachlorobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	602-065-00-6	204-273-9	118-74-1								
43	polychlorobiphenyls; PCB				<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %			<LOD
	602-039-00-4	215-648-1	1336-36-3								
44	iron { iron (III) oxide }				27650 mg/kg	1.43	33759.56 mg/kg	3.376 %		✓	
		215-168-2	1309-37-1								
45	coronene				0.39 mg/kg		0.333 mg/kg	0.0000333 %		✓	
		205-881-7	191-07-1								
46	pentachlorophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %			<LOD
	604-002-00-8	201-778-6	87-86-5								
47	dichlorodifluoromethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
		200-893-9	75-71-8								
48	chloromethane; methyl chloride				0.005 mg/kg		0.0042 mg/kg	0.00000427 %		✓	
	602-001-00-7	200-817-4	74-87-3								
49	bromomethane; methylbromide				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	602-002-00-2	200-813-2	74-83-9								
50	chloroethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
	602-009-00-0	200-830-5	75-00-3								
51	trichlorofluoromethane				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %			<LOD
		200-892-3	75-69-4								
52	1,1-dichloroethylene; vinylidene chloride				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	602-025-00-8	200-864-0	75-35-4								
53	dichloromethane; methylene chloride				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %			<LOD
	602-004-00-3	200-838-9	75-09-2								
54	2,2-dichloropropane				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %			<LOD
		209-832-0	594-20-7								
55	bromochloromethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
		200-826-3	74-97-5								
56	chloroform; trichloromethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	602-006-00-4	200-663-8	67-66-3								
57	1,1,1-trichloroethane; methyl chloroform				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	602-013-00-2	200-756-3	71-55-6								
58	1,1-dichloropropene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	602-031-00-0	209-253-3	563-58-6								
59	1,2-dichloropropane; propylene dichloride				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %			<LOD
	602-020-00-0	201-152-2	78-87-5								
60	dibromomethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
	602-003-00-8	200-824-2	74-95-3								
61	bromodichloromethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
		200-856-7	75-27-4								
62	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %			<LOD
	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]								
63	trans-1,3-dichloropropene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %			<LOD
		431-460-4	10061-02-6								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
64	1,1,2-trichloroethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-014-00-8	201-166-9	79-00-5							
65	1,3-dichloropropane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		205-531-3	142-28-9							
66	dibromochloromethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		204-704-0	124-48-1							
67	1,2-dibromoethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-010-00-6	203-444-5	106-93-4							
68	chlorobenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-033-00-1	203-628-5	108-90-7							
69	1,1,1,2-tetrachloroethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
		211-135-1	630-20-6							
70	bromoform; tribromomethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-007-00-X	200-854-6	75-25-2							
71	cumene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	601-024-00-X	202-704-5	98-82-8							
72	1,1,2,2-tetrachloroethane				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	602-015-00-3	201-197-8	79-34-5							
73	bromobenzene				<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
	602-060-00-9	203-623-8	108-86-1							
74	1,2,3-trichloropropane				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-062-00-X	202-486-1	96-18-4							
75	propylbenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	601-097-00-8	203-132-9	103-65-1							
76	mesitylene; 1,3,5-trimethylbenzene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	601-025-00-5	203-604-4	108-67-8							
77	tert-butylbenzene				<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
		202-632-4	98-06-6							
78	1,2,4-trimethylbenzene				<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
	601-043-00-3	202-436-9	95-63-6							
79	sec-butylbenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		205-227-0	135-98-8							
80	1-isopropyl-4-methylbenzene; p-cymene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	601-094-00-1	202-796-7	99-87-6							
81	1,3-dichlorobenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-067-00-7	208-792-1	541-73-1							
82	1,4-dichlorobenzene; p-dichlorobenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-035-00-2	203-400-5	106-46-7							
83	n-butylbenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		203-209-7	104-51-8							
84	1,2-dichlorobenzene; o-dichlorobenzene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-034-00-7	202-425-9	95-50-1							
85	1,2-dibromo-3-chloropropane				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
	602-021-00-6	202-479-3	96-12-8							
86	1,2,4-trichlorobenzene				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
	602-087-00-6	204-428-0	120-82-1							
87	hexachlorobutadiene				<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
		201-765-5	87-68-3							
88	1,2,3-trichlorobenzene				<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
		201-757-1	87-61-6							
89	styrene				<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
	601-026-00-0	202-851-5	100-42-5							
90	2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	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]							
91	2-nitrophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		201-857-5	88-75-5							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
92	2,4-dichlorophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-011-00-7	204-429-6	120-83-2							
93	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<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]							
94	2,4,5-trichlorophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-017-00-X	202-467-8	95-95-4							
95	2,4,6-trichlorophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-018-00-5	201-795-9	88-06-2							
96	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	604-014-00-3	200-431-6	59-50-7							
97	4-nitrophenol; p-nitrophenol				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	609-015-00-2	202-811-7	100-02-7							
98	2-chloronaphthalene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		202-079-9	91-58-7							
99	2-methyl naphthalene				0.057 mg/kg		0.0487 mg/kg	0.00000487 %	✓	
		202-078-3	91-57-6							
100	bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	607-317-00-9	204-211-0	117-81-7							
101	BBP; benzyl butyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	607-430-00-3	201-622-7	85-68-7							
102	dibutyl phthalate; DBP				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	607-318-00-4	201-557-4	84-74-2							
103	di-n-octyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-214-7	117-84-0							
104	diethyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-550-6	84-66-2							
105	dimethyl phthalate				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-011-6	131-11-3							
106	2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]							
107	2,6-dinitrotoluene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	609-049-00-8	210-106-0	606-20-2							
108	4-bromophenylphenylether				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		202-952-4	101-55-3							
109	4-chloroaniline				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	612-137-00-9	203-401-0	106-47-8							
110	4-chlorophenylphenylether				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		230-281-7	7005-72-3							
111	azobenzene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	611-001-00-6	203-102-5	103-33-3							
112	bis(2-chloroethoxy)methane				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		203-920-2	111-91-1							
113	bis(2-chloroethyl) ether				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	603-029-00-2	203-870-1	111-44-4							
114	carbazole				0.084 mg/kg		0.0717 mg/kg	0.00000717 %	✓	
		201-696-0	86-74-8							
115	dibenzofuran				0.073 mg/kg		0.0623 mg/kg	0.00000623 %	✓	
		205-071-3	132-64-9							
116	hexachlorocyclopentadiene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	602-078-00-7	201-029-3	77-47-4							

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
117	hexachloroethane	200-666-4	67-72-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
118	3,5,5-trimethylcyclohex-2-enone; isophorone	606-012-00-8	201-126-0		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
119	nitrosodipropylamine	612-098-00-8	210-698-0		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
120	nitrobenzene	609-003-00-7	202-716-0		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
121	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]		<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
122	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]		<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
123	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]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
124	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]		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
Total:								3.514 %		

Key

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

Classification of sample: TP-P2-106-27/03/2025-0.10m

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

Sample details

Sample name: **TP-P2-106-27/03/2025-0.10m** LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content: **70.2%** Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
(dry weight correction)

Hazard properties

None identified

Determinands

Moisture content: 70.2% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	arsenic { arsenic trioxide }				15 mg/kg	1.32	11.636 mg/kg	0.00116 %	✓		
	033-003-00-0	215-481-4	1327-53-3								
2	boron { diboron trioxide }				1.8 mg/kg	3.22	3.405 mg/kg	0.000341 %	✓		
	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(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				59.6 mg/kg	2.27	79.49 mg/kg	0.00795 %	✓		
	024-017-00-8										
5	copper { dicopper oxide; copper (I) oxide }				63 mg/kg	1.126	41.675 mg/kg	0.00417 %	✓		
	029-002-00-X	215-270-7	1317-39-1								
6	lead { lead chromate }			1	151 mg/kg	1.56	138.385 mg/kg	0.00887 %	✓		
	082-004-00-2	231-846-0	7758-97-6								
7	manganese { manganese sulphate }				444 mg/kg	2.749	717.017 mg/kg	0.0717 %	✓		
	025-003-00-4	232-089-9	7785-87-7								
8	mercury { mercury dichloride }				0.2 mg/kg	1.353	0.159 mg/kg	0.0000159 %	✓		
	080-010-00-X	231-299-8	7487-94-7								
9	nickel { nickel chromate }				23.5 mg/kg	2.976	41.094 mg/kg	0.00411 %	✓		
	028-035-00-7	238-766-5	14721-18-7								
10	selenium { nickel selenate }				2 mg/kg	2.554	3.001 mg/kg	0.0003 %	✓		
	028-031-00-5	239-125-2	15060-62-5								
11	zinc { zinc chromate }				581 mg/kg	2.774	946.991 mg/kg	0.0947 %	✓		
	024-007-00-3	236-878-9	13530-65-9								
12	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										
13	pH		PH		7.42 pH		7.42 pH	7.42 pH			
14	naphthalene				<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
15	acenaphthylene				<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
		205-917-1	208-96-8								

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	acenaphthene	201-469-6	83-32-9		0.15 mg/kg		0.0881 mg/kg	0.0000881 %	✓	
17	fluorene	201-695-5	86-73-7		0.09 mg/kg		0.0529 mg/kg	0.0000529 %	✓	
18	phenanthrene	201-581-5	85-01-8		1.55 mg/kg		0.911 mg/kg	0.0000911 %	✓	
19	anthracene	204-371-1	120-12-7		0.39 mg/kg		0.229 mg/kg	0.0000229 %	✓	
20	fluoranthene	205-912-4	206-44-0		3.3 mg/kg		1.939 mg/kg	0.000194 %	✓	
21	pyrene	204-927-3	129-00-0		2.83 mg/kg		1.663 mg/kg	0.000166 %	✓	
22	benzo[a]anthracene	601-033-00-9	200-280-6		1.46 mg/kg		0.858 mg/kg	0.0000858 %	✓	
23	chrysene	601-048-00-0	205-923-4		1.63 mg/kg		0.958 mg/kg	0.0000958 %	✓	
24	benzo[b]fluoranthene	601-034-00-4	205-911-9		1.74 mg/kg		1.022 mg/kg	0.000102 %	✓	
25	benzo[k]fluoranthene	601-036-00-5	205-916-6		0.68 mg/kg		0.4 mg/kg	0.00004 %	✓	
26	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		1.57 mg/kg		0.922 mg/kg	0.0000922 %	✓	
27	indeno[123-cd]pyrene	205-893-2	193-39-5		0.85 mg/kg		0.499 mg/kg	0.0000499 %	✓	
28	dibenz[a,h]anthracene	601-041-00-2	200-181-8		0.19 mg/kg		0.112 mg/kg	0.0000112 %	✓	
29	benzo[ghi]perylene	205-883-8	191-24-2		0.8 mg/kg		0.47 mg/kg	0.000047 %	✓	
30	polychlorobiphenyls; PCB	602-039-00-4	215-648-1		<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %		<LOD
31	iron { iron (III) oxide }	215-168-2	1309-37-1		27220 mg/kg	1.43	22865.837 mg/kg	2.287 %	✓	
32	coronene	205-881-7	191-07-1		0.15 mg/kg		0.0881 mg/kg	0.0000881 %	✓	
Total:								2.481 %		

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: WS-P2-104-26/03/2025-1.00-1.50m



Non Hazardous Waste

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

Sample details

Sample name: **WS-P2-104-26/03/2025-1.00-1.50m** LoW Code: **17: Construction and Demolition Wastes (including excavated soil from contaminated sites)**
Chapter: **17 05 04 (Soil and stones other than those mentioned in 17 05 03)**
Entry:

Hazard properties

None identified

Determinands

Moisture content: 0% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	asbestos									
	650-013-00-6	-----	12001-28-4							
			132207-32-0							
			12172-73-5							
			77536-66-4							
			77536-68-6							
			77536-67-5							
			12001-29-5							
Total:								0%		

Key

User supplied data
Determinand values ignored for classification, see column 'Conc. Not Used' for reason
<LOD Below limit of detection

Appendix A: Classifier defined and non GB MCL determinands

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

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

Description/Comments:

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

Reason for additional Hazards Statement(s):

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

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

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

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

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

Reason for additional Hazards Statement(s):

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

• pH (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

• acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

• fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

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

• anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

• fluoranthene (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 21 Aug 2015

Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

• pyrene (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014

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

Data source date: 21 Aug 2015

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

■ **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2; H351

■ **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

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

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

■ **iron (III) oxide** (EC Number: 215-168-2, CAS Number: 1309-37-1)

Description/Comments:
Data source: C&L Inventory, Registered Substances database, SDS: Sigma-Aldrich dated 19/09/2012 (REACH compliant)
Data source date: 21 May 2015
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335

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

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

■ **p,p'-DDE** (EC Number: 200-784-6, CAS Number: 72-55-9)

Description/Comments: other names: 4,4'-DDE; 2,2-bis(p-chlorophenyl)-1,1-dichloroethylene
Data source: ECHA's C&L inventory database

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/-/discli/details/21845>
Data source date: 11 Jan 2018
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 3; H311 , Skin Irrit. 2; H315 , Acute Tox. 3; H331 , Acute Tox. 4; H332 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **p,p'-DDD** (EC Number: 200-783-0, CAS Number: 72-54-8)

Description/Comments: other names: Rhothane; p,p'-TDE; 4,4'-DDD; 4,4'-TDE;
Data source: ECHA's C&L inventory database

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/-/discli/details/21283>
Data source date: 11 Jan 2018
Hazard Statements: Acute Tox. 3; H301 , Acute Tox. 4; H312 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **p,p'-methoxychlor** (EC Number: 200-779-9, CAS Number: 72-43-5)

Description/Comments: other names: Methoxychlor; DMDT; Dimethoxy-DDT; Methoxy-DDT; Methoxcide; p,p'-Dimethoxydiphenyltrichloroethane; 1,1,1-Trichloro-2,2-bis(4-methoxyphenyl)ethane
Data source: ECHA's C&L inventory database

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/-/discli/details/112624>
Data source date: 11 Jan 2018
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Acute Tox. 4; H332 , Carc. 2; H351 , Repr. 2; H361 , STOT SE 2; H371 , STOT RE 2; H373 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

▪ **1,1-dichloroethane and 1,2-dichloroethane (combined)** (EC Number: 203-458-1, 200-863-5, CAS Number: 107-06-2, 75-34-3)

Description/Comments: Combines the hazard statements and risk phrases for 1,1-dichloroethane and 1,2-dichloroethane

Data source: N/a

Data source date: 14 Oct 2016

Hazard Statements: Flam. Liq. 2; H225 , Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 1B; H350 , Aquatic Chronic 3; H412

▪ **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: Aquatic Chronic 3; H412 , Ozone 1; H420 , Press. Gas; H280

▪ **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: Acute Tox. 4; H312 , Ozone 1; H420

▪ **2,2-dichloropropane** (EC Number: 209-832-0, CAS Number: 594-20-7)

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: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Acute Tox. 4; H302 , Acute Tox. 4; H312 , Eye Irrit. 2; H319

▪ **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: Acute Tox. 4; H312 , Skin Corr. 1B; H314 , Eye Dam. 1; H318 , Acute Tox. 4; H332 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Ozone 1; H420

▪ **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: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 1A; H360

▪ **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: Flam. Liq. 3; H226 , Acute Tox. 3; H301 , Asp. Tox. 1; H304 , Acute Tox. 3; H311 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , Aquatic Chronic 1; H410

▪ **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: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335

▪ **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: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , STOT SE 3; H336 , Muta. 2; H341 , Aquatic Chronic 2; H411

▪ **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: Acute Tox. 4; H302 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Eye Dam. 1; H318 , Acute Tox. 4; H332 , Carc. 2; H351 , Acute Tox. 4; H312 , Aquatic Chronic 3; H412 , Skin Irrit. 2; H315

■ **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: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Acute Tox. 4; H332 , STOT SE 3; H335 , Asp. Tox. 1; H304 , Aquatic Chronic 2; H411

■ **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: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Chronic 2; H411

■ **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: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **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: Acute Tox. 3; H301 , Acute Tox. 2; H310 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 2; H330 , Carc. 2; H351 , Repr. 2; H361 , STOT SE 2; H371 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **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: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , STOT SE 3; H336 , Aquatic Acute 1; H400 , Aquatic Chronic 3; H410

■ **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: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , STOT RE 2; H373 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **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: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

■ **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: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , STOT SE 3; H336 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **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: Repr. 2; H361 , Skin Sens. 1; H317 , Resp. Sens. 1; H334 , Eye Irrit. 2; H319 , Aquatic Chronic 4; H413

■ **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: Skin Irrit. 2; H315 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , STOT SE 3; H335 , STOT RE 2; H373 , Repr. 2; H361 , Acute Tox. 4; H302 , STOT SE 3; H336 , Skin Sens. 1; H317 , Aquatic Chronic 1; H410

▪ **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: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , STOT SE 3; H335 , STOT SE 3; H336 , Repr. 2; H361 , Aquatic Chronic 3; H412

▪ **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: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **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: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

▪ **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: Acute Tox. 3; H301 , Acute Tox. 4; H312 , Acute Tox. 1; H330 , Acute Tox. 2; H330 , STOT SE 1; H370 , STOT RE 2; H373

▪ **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. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Muta. 2; H341 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301

▪ **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: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Acute Tox. 4; H332 , Aquatic Chronic 2; H411

▪ **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: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , STOT RE 2; H373

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}

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

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



copper {dicopper oxide; copper (I) oxide}

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

lead {lead chromate}

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

manganese {manganese sulphate}

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 {nickel selenate}

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

sulfur {sulfur}

Worse case compound

iron {iron (III) oxide}

Harsher iron salts are implausible on this site based on site history and physical form (soils) of the waste.

Appendix C: Version

HazWasteOnline Classification Engine: **WM3 1st Edition v1.2.GB - Oct 2021**
HazWasteOnline Classification Engine Version: 2025.121.6595.11991 (01 May 2025)
HazWasteOnline Database: 2025.119.6590.11983 (29 Apr 2025)

This classification utilises the following guidance and legislation:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021

GB MCL List v2.0 - version 2.0 of 20th October 2023

GB MCL List v3.0 - version 3.0 of 11th January 2024

GB MCL List v4.0 - version 4.0 of 2nd March 2024

GB MCL List v5.0 - version 5.0 of 26th June 2024

GB MCL List v6.0 - version 6.0 of 15th February 2025



Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

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



E6W7G-NPIY1-LEGAV

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

Report is invalid if pages are removed.

Job name

EMT-25-5398-Batch-1-202504171102

Description/Comments

Project

TE1885

Site

Bury Interchange

Classified by

Name: **Adrian Read**
Date: **02 May 2025 12:57 GMT**
Telephone: **01925 818388**
Company: **Tier Environmental**
Suite 414
Chadwick House
Warrington
WA3 6AE

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

HazWasteOnline™ Certification:

CERTIFIED

Course

Hazardous Waste Classification
Most recent 3 year Refresher

Date

03 Dec 2020
05 Dec 2023

Next 3 year Refresher due by Dec 2026

Purpose of classification

2 - Material Characterisation

Address of the waste

Bury Interchange

Post Code **BL9 0BL**

SIC for the process giving rise to the waste

Description of industry/producer giving rise to the waste

Proposed redevelopment of land

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

Waste created during excavation of soils during development

Description of the waste

Made ground and/or natural soils



Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	TP-P2-101-01/04/2025-0.30m		Non Hazardous		3
2	WS-P2-101-28/03/2025-0.45-0.60m		Non Hazardous		5
3	WS-P2-110-27/03/2025-1.30-1.50m		Non Hazardous		7
4	BH-P2-104-28/03/2025-1.10-1.30m		Potentially Hazardous	HP 3(i)	8
5	BH-P2-104-28/03/2025-3.20-3.50m		Non Hazardous		14
6	BH-P2-104-31/03/2025-13.70-14.00m		Non Hazardous		16
7	WS-P2-111-31/03/2025-0.00-0.15m		Non Hazardous		17
8	BH-P2-105-31/03/2025-8.10-8.50m		Non Hazardous		19

Related documents

#	Name	Description
1	EMT-25-5398-Batch-1-202504171102.HWOL	Element .hwol file used to populate the Job
2	Example waste stream template for contaminated soils	waste stream template used to create this Job

Report

Created by: Adrian Read

Created date: 02 May 2025 12:57 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	20
Appendix B: Rationale for selection of metal species	24
Appendix C: Version	25

Classification of sample: TP-P2-101-01/04/2025-0.30m

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

Sample details

Sample name:	LoW Code:
TP-P2-101-01/04/2025-0.30m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
18.3%	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
(dry weight correction)	Entry:

Hazard properties

None identified

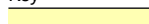
Determinands

Moisture content: 18.3% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				24.6	mg/kg	1.32	27.456	mg/kg	0.00275 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide }				1.3	mg/kg	3.22	3.538	mg/kg	0.000354 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				1.1	mg/kg	1.142	1.062	mg/kg	0.000106 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				74.5	mg/kg	2.27	142.954	mg/kg	0.0143 %	✓	
	024-017-00-8											
5	copper { dicopper oxide; copper (I) oxide }				121	mg/kg	1.126	115.158	mg/kg	0.0115 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
6	lead { lead chromate }			1	143	mg/kg	1.56	188.549	mg/kg	0.0121 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
7	manganese { manganese sulphate }				1010	mg/kg	2.749	2346.618	mg/kg	0.235 %	✓	
	025-003-00-4	232-089-9	7785-87-7									
8	mercury { mercury dichloride }				0.3	mg/kg	1.353	0.343	mg/kg	0.0000343 %	✓	
	080-010-00-X	231-299-8	7487-94-7									
9	nickel { nickel chromate }				27.1	mg/kg	2.976	68.18	mg/kg	0.00682 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { nickel selenate }				2	mg/kg	2.554	4.318	mg/kg	0.000432 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				250	mg/kg	2.774	586.252	mg/kg	0.0586 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
12	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
13	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
14	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
15	ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
16	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2]	95-47-6 [1] 106-42-3 [2]									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
			203-576-3 [3] 215-535-7 [4]	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 }				0.9	mg/kg	1.884	1.433	mg/kg	0.000143 %	✓	
		006-007-00-5											
18		pH				7.96	pH		7.96	pH	7.96 pH		
				PH									
19		naphthalene				1.8	mg/kg		1.522	mg/kg	0.000152 %	✓	
		601-052-00-2	202-049-5	91-20-3									
20		acenaphthylene				1.98	mg/kg		1.674	mg/kg	0.000167 %	✓	
			205-917-1	208-96-8									
21		acenaphthene				2.57	mg/kg		2.172	mg/kg	0.000217 %	✓	
			201-469-6	83-32-9									
22		fluorene				2.19	mg/kg		1.851	mg/kg	0.000185 %	✓	
			201-695-5	86-73-7									
23		phenanthrene				25.12	mg/kg		21.234	mg/kg	0.00212 %	✓	
			201-581-5	85-01-8									
24		anthracene				6.98	mg/kg		5.9	mg/kg	0.00059 %	✓	
			204-371-1	120-12-7									
25		fluoranthene				32.73	mg/kg		27.667	mg/kg	0.00277 %	✓	
			205-912-4	206-44-0									
26		pyrene				29.16	mg/kg		24.649	mg/kg	0.00246 %	✓	
			204-927-3	129-00-0									
27		benzo[a]anthracene				15.54	mg/kg		13.136	mg/kg	0.00131 %	✓	
		601-033-00-9	200-280-6	56-55-3									
28		chrysene				15.78	mg/kg		13.339	mg/kg	0.00133 %	✓	
		601-048-00-0	205-923-4	218-01-9									
29		benzo[b]fluoranthene				18.1	mg/kg		15.3	mg/kg	0.00153 %	✓	
		601-034-00-4	205-911-9	205-99-2									
30		benzo[k]fluoranthene				7.04	mg/kg		5.951	mg/kg	0.000595 %	✓	
		601-036-00-5	205-916-6	207-08-9									
31		benzo[a]pyrene; benzo[def]chrysene				16.64	mg/kg		14.066	mg/kg	0.00141 %	✓	
		601-032-00-3	200-028-5	50-32-8									
32		indeno[123-cd]pyrene				9.95	mg/kg		8.411	mg/kg	0.000841 %	✓	
			205-893-2	193-39-5									
33		dibenz[a,h]anthracene				2.46	mg/kg		2.079	mg/kg	0.000208 %	✓	
		601-041-00-2	200-181-8	53-70-3									
34		benzo[ghi]perylene				9.48	mg/kg		8.014	mg/kg	0.000801 %	✓	
			205-883-8	191-24-2									
35		polychlorobiphenyls; PCB				<0.035	mg/kg		<0.035	mg/kg	<0.0000035 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
36		iron {  iron (III) oxide }				29690	mg/kg	1.43	35882.607	mg/kg	3.588 %	✓	
			215-168-2	1309-37-1									
37		coronene				1.99	mg/kg		1.682	mg/kg	0.000168 %	✓	
			205-881-7	191-07-1									
Total:											3.947 %		

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: WS-P2-101-28/03/2025-0.45-0.60m

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

Sample details

Sample name:	LoW Code:
WS-P2-101-28/03/2025-0.45-0.60m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
3.7% (dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 3.7% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
1	arsenic { arsenic trioxide }				1.2	mg/kg	1.32	1.528	mg/kg	0.000153 %	✓	
	033-003-00-0	215-481-4	1327-53-3									
2	boron { diboron trioxide }				0.3	mg/kg	3.22	0.931	mg/kg	0.0000931 %	✓	
	005-008-00-8	215-125-8	1303-86-2									
3	cadmium { cadmium oxide }				0.1	mg/kg	1.142	0.11	mg/kg	0.000011 %	✓	
	048-002-00-0	215-146-2	1306-19-0									
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				14.1	mg/kg	2.27	30.865	mg/kg	0.00309 %	✓	
	024-017-00-8											
5	copper { dicopper oxide; copper (I) oxide }				20	mg/kg	1.126	21.714	mg/kg	0.00217 %	✓	
	029-002-00-X	215-270-7	1317-39-1									
6	lead { lead chromate }			1	8	mg/kg	1.56	12.033	mg/kg	0.000771 %	✓	
	082-004-00-2	231-846-0	7758-97-6									
7	manganese { manganese sulphate }				120	mg/kg	2.749	318.059	mg/kg	0.0318 %	✓	
	025-003-00-4	232-089-9	7785-87-7									
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 }				12	mg/kg	2.976	34.441	mg/kg	0.00344 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { nickel selenate }				<1	mg/kg	2.554	<2.554	mg/kg	<0.000255 %		<LOD
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				31	mg/kg	2.774	82.93	mg/kg	0.00829 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
12	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
13	benzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-020-00-8	200-753-7	71-43-2									
14	toluene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-021-00-3	203-625-9	108-88-3									
15	ethylbenzene				<0.005	mg/kg		<0.005	mg/kg	<0.0000005 %		<LOD
	601-023-00-4	202-849-4	100-41-4									
16	xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
	601-022-00-9	202-422-2 [1] 203-396-5 [2]	95-47-6 [1] 106-42-3 [2]									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
		203-576-3 [3] 215-535-7 [4]	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 } 006-007-00-5				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
18	pH PH				10.12 pH		10.12 pH	10.12 pH			
19	naphthalene 601-052-00-2	202-049-5	91-20-3		0.09 mg/kg		0.0868 mg/kg	0.00000868 %	✓		
20	acenaphthylene 205-917-1	208-96-8			<0.03 mg/kg		<0.03 mg/kg	<0.000003 %			<LOD
21	acenaphthene 201-469-6	83-32-9			<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
22	fluorene 201-695-5	86-73-7			0.05 mg/kg		0.0482 mg/kg	0.00000482 %	✓		
23	phenanthrene 201-581-5	85-01-8			0.29 mg/kg		0.28 mg/kg	0.000028 %	✓		
24	anthracene 204-371-1	120-12-7			0.05 mg/kg		0.0482 mg/kg	0.00000482 %	✓		
25	fluoranthene 205-912-4	206-44-0			0.25 mg/kg		0.241 mg/kg	0.0000241 %	✓		
26	pyrene 204-927-3	129-00-0			0.23 mg/kg		0.222 mg/kg	0.0000222 %	✓		
27	benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		0.12 mg/kg		0.116 mg/kg	0.0000116 %	✓		
28	chrysene 601-048-00-0	205-923-4	218-01-9		0.16 mg/kg		0.154 mg/kg	0.0000154 %	✓		
29	benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		0.17 mg/kg		0.164 mg/kg	0.0000164 %	✓		
30	benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		0.06 mg/kg		0.0579 mg/kg	0.00000579 %	✓		
31	benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		0.12 mg/kg		0.116 mg/kg	0.0000116 %	✓		
32	indeno[123-cd]pyrene 205-893-2	193-39-5			0.07 mg/kg		0.0675 mg/kg	0.00000675 %	✓		
33	dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
34	benzo[ghi]perylene 205-883-8	191-24-2			0.07 mg/kg		0.0675 mg/kg	0.00000675 %	✓		
35	polychlorobiphenyls; PCB 602-039-00-4	215-648-1	1336-36-3		<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %			<LOD
36	iron { iron (III) oxide } 215-168-2	1309-37-1			7935 mg/kg	1.43	10940.236 mg/kg	1.094 %	✓		
37	coronene 205-881-7	191-07-1			<0.04 mg/kg		<0.04 mg/kg	<0.000004 %			<LOD
Total:									1.144 %		

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: WS-P2-110-27/03/2025-1.30-1.50m

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

Sample details

Sample name:	LoW Code:	
WS-P2-110-27/03/2025-1.30-1.50m	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
20.6% (dry weight correction)		

Hazard properties

None identified

Determinands

Moisture content: 20.6% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	 pH				8.06 pH		8.06 pH	8.06 pH		
2	 sulfur { sulfur }				200 mg/kg		165.837 mg/kg	0.0166 %	✓	
	016-094-00-1	231-722-6	7704-34-9							
Total:								0.0166 %		

Key

	User supplied data
	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

Classification of sample: BH-P2-104-28/03/2025-1.10-1.30m

*** Potentially Hazardous Waste**
Classified as **17 05 04** or **17 05 03 ***
in the List of Waste

Sample details

Sample name:	LoW Code:
BH-P2-104-28/03/2025-1.10-1.30m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)
19.8% (dry weight correction)	

Hazard properties (substances considered hazardous until shown otherwise)

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"

Hazard Statements hit:

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

Because of determinands:

benzene (conc.: 5.84e-07%)
toluene (conc.: 1.34e-06%)
ethylbenzene (conc.: 4.17e-07%)

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

Because of determinands:

TPH (C6 to C40) petroleum group (conc.: 0.0495%)
xylene (conc.: 2.59e-06%)
mesitylene; 1,3,5-trimethylbenzene (conc.: 6.68e-07%)
1,2,4-trimethylbenzene (conc.: 1.09e-06%)

Determinands

Moisture content: 19.8% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	arsenic { arsenic trioxide }				5.3 mg/kg	1.32	5.841 mg/kg	0.000584 %	✓	
	033-003-00-0	215-481-4	1327-53-3							
2	boron { diboron trioxide }				1.7 mg/kg	3.22	4.569 mg/kg	0.000457 %	✓	
	005-008-00-8	215-125-8	1303-86-2							
3	cadmium { cadmium oxide }				0.1 mg/kg	1.142	0.0954 mg/kg	0.00000954 %	✓	
	048-002-00-0	215-146-2	1306-19-0							
4	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				32 mg/kg	2.27	60.634 mg/kg	0.00606 %	✓	
	024-017-00-8									
5	copper { dicopper oxide; copper (I) oxide }				19 mg/kg	1.126	17.856 mg/kg	0.00179 %	✓	
	029-002-00-X	215-270-7	1317-39-1							
6	lead { lead chromate }			1	29 mg/kg	1.56	37.758 mg/kg	0.00242 %	✓	
	082-004-00-2	231-846-0	7758-97-6							
7	manganese { manganese sulphate }				514 mg/kg	2.749	1179.267 mg/kg	0.118 %	✓	
	025-003-00-4	232-089-9	7785-87-7							
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							

#	Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number									
9	nickel { nickel chromate }				16.3	mg/kg	2.976	40.495	mg/kg	0.00405 %	✓	
	028-035-00-7	238-766-5	14721-18-7									
10	selenium { nickel selenate }				1	mg/kg	2.554	2.132	mg/kg	0.000213 %	✓	
	028-031-00-5	239-125-2	15060-62-5									
11	zinc { zinc chromate }				57	mg/kg	2.774	131.992	mg/kg	0.0132 %	✓	
	024-007-00-3	236-878-9	13530-65-9									
12	TPH (C6 to C40) petroleum group				593	mg/kg		494.992	mg/kg	0.0495 %	✓	
			TPH									
13	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
	603-181-00-X	216-653-1	1634-04-4									
14	benzene				0.007	mg/kg		0.0058	mg/kg	0.000000584 %	✓	
	601-020-00-8	200-753-7	71-43-2									
15	toluene				0.016	mg/kg		0.0134	mg/kg	0.00000134 %	✓	
	601-021-00-3	203-625-9	108-88-3									
16	ethylbenzene				0.005	mg/kg		0.0041	mg/kg	0.000000417 %	✓	
	601-023-00-4	202-849-4	100-41-4									
17	xylene				0.031	mg/kg		0.0259	mg/kg	0.00000259 %	✓	
	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]									
18	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											
19	pH				11.4	pH		11.4	pH	11.4 pH		
			PH									
20	naphthalene				0.42	mg/kg		0.351	mg/kg	0.0000351 %	✓	
	601-052-00-2	202-049-5	91-20-3									
21	acenaphthylene				0.07	mg/kg		0.0584	mg/kg	0.00000584 %	✓	
		205-917-1	208-96-8									
22	acenaphthene				0.6	mg/kg		0.501	mg/kg	0.0000501 %	✓	
		201-469-6	83-32-9									
23	fluorene				0.44	mg/kg		0.367	mg/kg	0.0000367 %	✓	
		201-695-5	86-73-7									
24	phenanthrene				4.42	mg/kg		3.689	mg/kg	0.000369 %	✓	
		201-581-5	85-01-8									
25	anthracene				1.16	mg/kg		0.968	mg/kg	0.0000968 %	✓	
		204-371-1	120-12-7									
26	fluoranthene				6.35	mg/kg		5.301	mg/kg	0.00053 %	✓	
		205-912-4	206-44-0									
27	pyrene				5.53	mg/kg		4.616	mg/kg	0.000462 %	✓	
		204-927-3	129-00-0									
28	benzo[a]anthracene				2.31	mg/kg		1.928	mg/kg	0.000193 %	✓	
	601-033-00-9	200-280-6	56-55-3									
29	chrysene				2.4	mg/kg		2.003	mg/kg	0.0002 %	✓	
	601-048-00-0	205-923-4	218-01-9									
30	benzo[b]fluoranthene				2.53	mg/kg		2.112	mg/kg	0.000211 %	✓	
	601-034-00-4	205-911-9	205-99-2									
31	benzo[k]fluoranthene				0.99	mg/kg		0.826	mg/kg	0.0000826 %	✓	
	601-036-00-5	205-916-6	207-08-9									
32	benzo[a]pyrene; benzo[def]chrysene				2.25	mg/kg		1.878	mg/kg	0.000188 %	✓	
	601-032-00-3	200-028-5	50-32-8									
33	indeno[123-cd]pyrene				1.25	mg/kg		1.043	mg/kg	0.000104 %	✓	
		205-893-2	193-39-5									
34	dibenz[a,h]anthracene				0.29	mg/kg		0.242	mg/kg	0.0000242 %	✓	
	601-041-00-2	200-181-8	53-70-3									

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
35	benzo[ghi]perylene	205-883-8	191-24-2		1.21 mg/kg		1.01 mg/kg	0.000101 %	✓	
36	phenol	604-001-00-2	203-632-7	108-95-2	0.036 mg/kg		0.0301 mg/kg	0.00000301 %	✓	
37	1,1-dichloroethane and 1,2-dichloroethane (combined)	203-458-1, 200-863-5	107-06-2, 75-34-3		<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
38	tetrachloroethylene	602-028-00-4	204-825-9	127-18-4	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
39	carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5	<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
40	trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
41	vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
42	hexachlorobenzene	602-065-00-6	204-273-9	118-74-1	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
43	polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3	<0.035 mg/kg		<0.035 mg/kg	<0.0000035 %		<LOD
44	iron { iron (III) oxide }	215-168-2	1309-37-1		19490 mg/kg	1.43	23260.206 mg/kg	2.326 %	✓	
45	coronene	205-881-7	191-07-1		0.22 mg/kg		0.184 mg/kg	0.0000184 %	✓	
46	sulfur { sulfur }	016-094-00-1	231-722-6	7704-34-9	1700 mg/kg		1419.032 mg/kg	0.142 %	✓	
47	dichlorodifluoromethane	200-893-9	75-71-8		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
48	chloromethane; methyl chloride	602-001-00-7	200-817-4	74-87-3	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
49	bromomethane; methylbromide	602-002-00-2	200-813-2	74-83-9	<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
50	chloroethane	602-009-00-0	200-830-5	75-00-3	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
51	trichlorofluoromethane	200-892-3	75-69-4		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
52	1,1-dichloroethylene; vinylidene chloride	602-025-00-8	200-864-0	75-35-4	<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
53	dichloromethane; methylene chloride	602-004-00-3	200-838-9	75-09-2	<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
54	2,2-dichloropropane	209-832-0	594-20-7		<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
55	bromochloromethane	200-826-3	74-97-5		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
56	chloroform; trichloromethane	602-006-00-4	200-663-8	67-66-3	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
57	1,1,1-trichloroethane; methyl chloroform	602-013-00-2	200-756-3	71-55-6	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
58	1,1-dichloropropene	602-031-00-0	209-253-3	563-58-6	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
59	1,2-dichloropropane; propylene dichloride	602-020-00-0	201-152-2	78-87-5	<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
60	dibromomethane	602-003-00-8	200-824-2	74-95-3	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
61	bromodichloromethane	200-856-7	75-27-4		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
62	1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]	602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]	<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
63	trans-1,3-dichloropropene	431-460-4	10061-02-6		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
64	1,1,2-trichloroethane	602-014-00-8	201-166-9	79-00-5	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
65	1,3-dichloropropane	205-531-3	142-28-9		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
66	dibromochloromethane	204-704-0	124-48-1		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
67	1,2-dibromoethane	602-010-00-6	203-444-5	106-93-4	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
68	chlorobenzene	602-033-00-1	203-628-5	108-90-7	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
69	1,1,1,2-tetrachloroethane	211-135-1	630-20-6		<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
70	bromoform; tribromomethane	602-007-00-X	200-854-6	75-25-2	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
71	cumene	601-024-00-X	202-704-5	98-82-8	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
72	1,1,2,2-tetrachloroethane	602-015-00-3	201-197-8	79-34-5	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
73	bromobenzene	602-060-00-9	203-623-8	108-86-1	<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
74	1,2,3-trichloropropane	602-062-00-X	202-486-1	96-18-4	<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
75	propylbenzene	601-097-00-8	203-132-9	103-65-1	<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
76	mesitylene; 1,3,5-trimethylbenzene	601-025-00-5	203-604-4	108-67-8	0.008 mg/kg		0.0066 mg/kg	0.000000668 %	✓	
77	tert-butylbenzene	202-632-4	98-06-6		<0.005 mg/kg		<0.005 mg/kg	<0.0000005 %		<LOD
78	1,2,4-trimethylbenzene	601-043-00-3	202-436-9	95-63-6	0.013 mg/kg		0.0109 mg/kg	0.00000109 %	✓	
79	sec-butylbenzene	205-227-0	135-98-8		<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
80	1-isopropyl-4-methylbenzene; p-cymene	601-094-00-1	202-796-7	99-87-6	<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
81	1,3-dichlorobenzene	602-067-00-7	208-792-1	541-73-1	<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
82	1,4-dichlorobenzene; p-dichlorobenzene	602-035-00-2	203-400-5	106-46-7	<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
83	n-butylbenzene	203-209-7	104-51-8		<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
84	1,2-dichlorobenzene; o-dichlorobenzene	602-034-00-7	202-425-9	95-50-1	<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
85	1,2-dibromo-3-chloropropane	602-021-00-6	202-479-3	96-12-8	<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
86	1,2,4-trichlorobenzene	602-087-00-6	204-428-0	120-82-1	<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
87	hexachlorobutadiene	201-765-5	87-68-3		<0.004 mg/kg		<0.004 mg/kg	<0.0000004 %		<LOD
88	1,2,3-trichlorobenzene	201-757-1	87-61-6		<0.007 mg/kg		<0.007 mg/kg	<0.0000007 %		<LOD
89	styrene	601-026-00-0	202-851-5	100-42-5	<0.003 mg/kg		<0.003 mg/kg	<0.0000003 %		<LOD
90	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]	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
91	2-nitrophenol	201-857-5	88-75-5		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
92	2,4-dichlorophenol	604-011-00-7	204-429-6	120-83-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
93	3,4-xyleneol; [1] 2,5-xyleneol; [2] 2,4-xyleneol; [3] 2,3-xyleneol; [4] 2,6-xyleneol; [5] xyleneol; [6] 2,4(or 2,5)-xyleneol [7]	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]	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
94	2,4,5-trichlorophenol	604-017-00-X	202-467-8	95-95-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
95	2,4,6-trichlorophenol	604-018-00-5	201-795-9	88-06-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
96	chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol	604-014-00-3	200-431-6	59-50-7	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
97	4-nitrophenol; p-nitrophenol	609-015-00-2	202-811-7	100-02-7	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
98	pentachlorophenol	604-002-00-8	201-778-6	87-86-5	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
99	2-chloronaphthalene	202-079-9	91-58-7		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
100	2-methyl naphthalene	202-078-3	91-57-6		0.062 mg/kg		0.0518 mg/kg	0.00000518 %	✓	
101	bis(2-ethylhexyl) phthalate; di-(2-ethylhexyl) phthalate; DEHP	607-317-00-9	204-211-0	117-81-7	0.763 mg/kg		0.637 mg/kg	0.0000637 %	✓	
102	BBP; benzyl butyl phthalate	607-430-00-3	201-622-7	85-68-7	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
103	dibutyl phthalate; DBP	607-318-00-4	201-557-4	84-74-2	<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
104	di-n-octyl phthalate	204-214-7	117-84-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
105	diethyl phthalate	201-550-6	84-66-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
106	dimethyl phthalate	205-011-6	131-11-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
107	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]	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
108	2,6-dinitrotoluene	609-049-00-8	210-106-0	606-20-2	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
109	4-bromophenylphenylether	202-952-4	101-55-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
110	4-chloroaniline	612-137-00-9	203-401-0	106-47-8	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
111	4-chlorophenylphenylether	230-281-7	7005-72-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
112	azobenzene	611-001-00-6	203-102-5	103-33-3	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
113	bis(2-chloroethoxy)methane	203-920-2	111-91-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
114	bis(2-chloroethyl) ether	603-029-00-2	203-870-1	111-44-4	<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
115	carbazole	201-696-0	86-74-8		0.111 mg/kg		0.0927 mg/kg	0.00000927 %	✓	

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
116	• dibenzofuran	205-071-3	132-64-9		0.111 mg/kg		0.0927 mg/kg	0.00000927 %	✓	
117	hexachlorocyclopentadiene	602-078-00-7	201-029-3		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
118	• hexachloroethane	200-666-4	67-72-1		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
119	3,5,5-trimethylcyclohex-2-enone; isophorone	606-012-00-8	201-126-0		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
120	nitrosodipropylamine	612-098-00-8	210-698-0		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
121	nitrobenzene	609-003-00-7	202-716-0		<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
122	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]		<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
123	2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]	602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]		<0.006 mg/kg		<0.006 mg/kg	<0.0000006 %		<LOD
124	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]		<0.02 mg/kg		<0.02 mg/kg	<0.000002 %		<LOD
125	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]		<0.03 mg/kg		<0.03 mg/kg	<0.000003 %		<LOD
Total:								2.667 %		

Key

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

Classification of sample: BH-P2-104-28/03/2025-3.20-3.50m

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

Sample details

Sample name: **BH-P2-104-28/03/2025-3.20-3.50m** LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content: **19.5%** Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
(dry weight correction)

Hazard properties

None identified

Determinands

Moisture content: 19.5% Dry Weight Moisture Correction applied (MC)

#		Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number								
1		arsenic { arsenic trioxide }				5.7 mg/kg	1.32	6.298 mg/kg	0.00063 %	✓		
		033-003-00-0	215-481-4	1327-53-3								
2		boron { diboron trioxide }				0.8 mg/kg	3.22	2.156 mg/kg	0.000216 %	✓		
		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(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				51.5 mg/kg	2.27	97.828 mg/kg	0.00978 %	✓		
		024-017-00-8										
5		copper { dicopper oxide; copper (I) oxide }				27 mg/kg	1.126	25.438 mg/kg	0.00254 %	✓		
		029-002-00-X	215-270-7	1317-39-1								
6		lead { lead chromate }			1	25 mg/kg	1.56	32.632 mg/kg	0.00209 %	✓		
		082-004-00-2	231-846-0	7758-97-6								
7		manganese { manganese sulphate }				512 mg/kg	2.749	1177.627 mg/kg	0.118 %	✓		
		025-003-00-4	232-089-9	7785-87-7								
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 }				29.7 mg/kg	2.976	73.971 mg/kg	0.0074 %	✓		
		028-035-00-7	238-766-5	14721-18-7								
10		selenium { nickel selenate }				1 mg/kg	2.554	2.137 mg/kg	0.000214 %	✓		
		028-031-00-5	239-125-2	15060-62-5								
11		zinc { zinc chromate }				78 mg/kg	2.774	181.074 mg/kg	0.0181 %	✓		
		024-007-00-3	236-878-9	13530-65-9								
12		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										
13		pH				10.14 pH		10.14 pH	10.14 pH			
				PH								
14		naphthalene				0.36 mg/kg		0.301 mg/kg	0.0000301 %	✓		
		601-052-00-2	202-049-5	91-20-3								
15		acenaphthylene				0.04 mg/kg		0.0335 mg/kg	0.00000335 %	✓		
			205-917-1	208-96-8								



#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
16	• acenaphthene	201-469-6	83-32-9		0.87 mg/kg		0.728 mg/kg	0.0000728 %	✓	
17	• fluorene	201-695-5	86-73-7		0.61 mg/kg		0.51 mg/kg	0.000051 %	✓	
18	• phenanthrene	201-581-5	85-01-8		6.03 mg/kg		5.046 mg/kg	0.000505 %	✓	
19	• anthracene	204-371-1	120-12-7		1.6 mg/kg		1.339 mg/kg	0.000134 %	✓	
20	• fluoranthene	205-912-4	206-44-0		7.66 mg/kg		6.41 mg/kg	0.000641 %	✓	
21	• pyrene	204-927-3	129-00-0		6.23 mg/kg		5.213 mg/kg	0.000521 %	✓	
22	benzo[a]anthracene	601-033-00-9	200-280-6		2.77 mg/kg		2.318 mg/kg	0.000232 %	✓	
23	chrysene	601-048-00-0	205-923-4		2.93 mg/kg		2.452 mg/kg	0.000245 %	✓	
24	benzo[b]fluoranthene	601-034-00-4	205-911-9		3.2 mg/kg		2.678 mg/kg	0.000268 %	✓	
25	benzo[k]fluoranthene	601-036-00-5	205-916-6		1.25 mg/kg		1.046 mg/kg	0.000105 %	✓	
26	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5		2.94 mg/kg		2.46 mg/kg	0.000246 %	✓	
27	• indeno[123-cd]pyrene	205-893-2	193-39-5		1.66 mg/kg		1.389 mg/kg	0.000139 %	✓	
28	dibenz[a,h]anthracene	601-041-00-2	200-181-8		0.3 mg/kg		0.251 mg/kg	0.0000251 %	✓	
29	• benzo[ghi]perylene	205-883-8	191-24-2		1.48 mg/kg		1.238 mg/kg	0.000124 %	✓	
30	iron { • iron (III) oxide }	215-168-2	1309-37-1		32790 mg/kg	1.43	39231.241 mg/kg	3.923 %	✓	
Total:								4.085 %		

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: BH-P2-104-31/03/2025-13.70-14.00m



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

Sample details

Sample name: **BH-P2-104-31/03/2025-13.70-14.00m** LoW Code: **17: Construction and Demolition Wastes (including excavated soil from contaminated sites)**
Moisture content: **20.3%** Chapter: **17 05 04 (Soil and stones other than those mentioned in 17 05 03)**
(dry weight correction) Entry:

Hazard properties

None identified

Determinands

Moisture content: 20.3% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	pH		PH		7.18 pH		7.18	pH	7.18 pH		
2	sulfur { sulfur }				1500 mg/kg		1246.883	mg/kg	0.125 %	✓	
	016-094-00-1	231-722-6	7704-34-9								
Total:									0.125 %		

Key

- User supplied data
- 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

Classification of sample: WS-P2-111-31/03/2025-0.00-0.15m

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

Sample details

Sample name:	LoW Code:
WS-P2-111-31/03/2025-0.00-0.15m	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.5% (dry weight correction)	

Hazard properties

None identified

Determinands

Moisture content: 2.5% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	naphthalene				0.055 mg/kg		0.0537 mg/kg	0.00000537 %	✓	
	601-052-00-2	202-049-5	91-20-3							
2	acenaphthylene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-917-1	208-96-8							
3	acenaphthene				0.036 mg/kg		0.0351 mg/kg	0.00000351 %	✓	
		201-469-6	83-32-9							
4	fluorene				0.027 mg/kg		0.0263 mg/kg	0.00000263 %	✓	
		201-695-5	86-73-7							
5	phenanthrene				0.106 mg/kg		0.103 mg/kg	0.0000103 %	✓	
		201-581-5	85-01-8							
6	anthracene				0.013 mg/kg		0.0127 mg/kg	0.00000127 %	✓	
		204-371-1	120-12-7							
7	fluoranthene				0.047 mg/kg		0.0459 mg/kg	0.00000459 %	✓	
		205-912-4	206-44-0							
8	pyrene				0.088 mg/kg		0.0859 mg/kg	0.00000859 %	✓	
		204-927-3	129-00-0							
9	benzo[a]anthracene				0.101 mg/kg		0.0985 mg/kg	0.00000985 %	✓	
	601-033-00-9	200-280-6	56-55-3							
10	chrysene				0.275 mg/kg		0.268 mg/kg	0.0000268 %	✓	
	601-048-00-0	205-923-4	218-01-9							
11	benzo[a]pyrene; benzo[def]chrysene				0.234 mg/kg		0.228 mg/kg	0.0000228 %	✓	
	601-032-00-3	200-028-5	50-32-8							
12	indeno[123-cd]pyrene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
		205-893-2	193-39-5							
13	dibenz[a,h]anthracene				<0.01 mg/kg		<0.01 mg/kg	<0.000001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
14	benzo[ghi]perylene				0.091 mg/kg		0.0888 mg/kg	0.00000888 %	✓	
		205-883-8	191-24-2							
15	Tar, coal; Coal tar; [The by-product from the destructive distillation of coal. Almost black semisolid. A complex combination of aromatic hydro-carbons, phenolic compounds, nitrogen bases and thiophene.]			H	<1000 mg/kg		<1000 mg/kg	<0.1 %		<LOD
	648-081-00-7	232-361-7	8007-45-2							
Total:								0.0001 %		



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
CLP: Note H	Known incomplete entry, should not be used as is

Classification of sample: BH-P2-105-31/03/2025-8.10-8.50m

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

Sample details

Sample name:	LoW Code:
BH-P2-105-31/03/2025-8.10-8.50m	Chapter:
Moisture content:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
9.9%	Entry:
(dry weight correction)	17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 9.9% Dry Weight Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	 pH				7.5 pH		7.5	pH	7.5 pH		
2	 sulfur { sulfur }				1600 mg/kg		1455.869	mg/kg	0.146 %	✓	
	016-094-00-1	231-722-6	7704-34-9								
Total:									0.146 %		

Key

	User supplied data
	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

Appendix A: Classifier defined and non GB MCL determinands

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

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

Description/Comments:

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

Reason for additional Hazards Statement(s):

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

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

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

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

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

Reason for additional Hazards Statement(s):

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

■ pH (CAS Number: PH)

Description/Comments: Appendix C4

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: None.

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

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

■ acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

■ fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

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

■ anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 17 Jul 2015

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

■ fluoranthene (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 21 Aug 2015

Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ pyrene (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014

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

Data source date: 21 Aug 2015

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

■ **indeno[123-cd]pyrene** (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database

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

Data source date: 06 Aug 2015

Hazard Statements: Carc. 2; H351

■ **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015

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

Data source date: 23 Jul 2015

Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

GB MCL index number: 602-039-00-4

Description/Comments: Worst Case: IARC considers PCB Group 1; Carcinogenic to humans;

POP specific threshold from ATP1 (Regulation 756/2010/EU) to POPs Regulation (Regulation 850/2004/EC). Where applicable, the calculation method laid down in European standards EN 12766-1 and EN 12766-2 shall be applied.

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

Reason for additional Hazards Statement(s):

20 Nov 2021 - Carc. 1A; H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

■ **iron (III) oxide** (EC Number: 215-168-2, CAS Number: 1309-37-1)

Description/Comments:

Data source: C&L Inventory, Registered Substances database, SDS: Sigma-Aldrich dated 19/09/2012 (REACH compliant)

Data source date: 21 May 2015

Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335

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

Description/Comments: Data from C&L Inventory Database; no entries in Registered Substances or Pesticides Properties databases; SDS: Sigma Aldrich, 1907/2006 compliant, dated 2012 - no entries; IARC – Group 3, not carcinogenic.

Data source: <http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=17010&HarmOnly=no?fc=true&lang=en>

Data source date: 16 Jun 2014

Hazard Statements: STOT SE 2; H371

■ **TPH (C6 to C40) petroleum group** (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

■ **1,1-dichloroethane and 1,2-dichloroethane (combined)** (EC Number: 203-458-1, 200-863-5, CAS Number: 107-06-2, 75-34-3)

Description/Comments: Combines the hazard statements and risk phrases for 1,1-dichloroethane and 1,2-dichloroethane

Data source: N/a

Data source date: 14 Oct 2016

Hazard Statements: Flam. Liq. 2; H225 , Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 1B; H350 , Aquatic Chronic 3; H412

■ **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: Aquatic Chronic 3; H412 , Ozone 1; H420 , Press. Gas; H280

■ **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: Acute Tox. 4; H312 , Ozone 1; H420

■ **2,2-dichloropropane** (EC Number: 209-832-0, CAS Number: 594-20-7)

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: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Acute Tox. 4; H302 , Acute Tox. 4; H312 , Eye Irrit. 2; H319

■ **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: Acute Tox. 4; H312 , Skin Corr. 1B; H314 , Eye Dam. 1; H318 , Acute Tox. 4; H332 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Ozone 1; H420

■ **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: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 1A; H360

■ **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: Flam. Liq. 3; H226 , Acute Tox. 3; H301 , Asp. Tox. 1; H304 , Acute Tox. 3; H311 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , Aquatic Chronic 1; H410

■ **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: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335

■ **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: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , STOT SE 3; H336 , Muta. 2; H341 , Aquatic Chronic 2; H411

■ **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: Acute Tox. 4; H302 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Eye Dam. 1; H318 , Acute Tox. 4; H332 , Carc. 2; H351 , Acute Tox. 4; H312 , Aquatic Chronic 3; H412 , Skin Irrit. 2; H315

■ **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: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Acute Tox. 4; H332 , STOT SE 3; H335 , Asp. Tox. 1; H304 , Aquatic Chronic 2; H411

■ **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: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Chronic 2; H411

■ **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: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **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: Acute Tox. 3; H301 , Acute Tox. 2; H310 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 2; H330 , Carc. 2; H351 , Repr. 2; H361 , STOT SE 2; H371 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **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: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , STOT SE 3; H336 , Aquatic Acute 1; H400 , Aquatic Chronic 3; H410

■ **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: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , STOT RE 2; H373 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **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: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

■ **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: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , STOT SE 3; H336 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **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: Repr. 2; H361 , Skin Sens. 1; H317 , Resp. Sens. 1; H334 , Eye Irrit. 2; H319 , Aquatic Chronic 4; H413

■ **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: Skin Irrit. 2; H315 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , STOT SE 3; H335 , STOT RE 2; H373 , Repr. 2; H361 , Acute Tox. 4; H302 , STOT SE 3; H336 , Skin Sens. 1; H317 , Aquatic Chronic 1; H410

■ **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: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , STOT SE 3; H335 , STOT SE 3; H336 , Repr. 2; H361 , Aquatic Chronic 3; H412

■ **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: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **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: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

■ **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: Acute Tox. 3; H301 , Acute Tox. 4; H312 , Acute Tox. 1; H330 , Acute Tox. 2; H330 , STOT SE 1; H370 , STOT RE 2; H373

• **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. 4; H302, Skin Irrit. 2; H315, Eye Irrit. 2; H319, STOT SE 3; H335, Muta. 2; H341, Carc. 2; H351, Aquatic Acute 1; H400, Aquatic Chronic 1; H410, Acute Tox. 3; H331, Acute Tox. 3; H311, Acute Tox. 3; H301

• **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: Acute Tox. 4; H302, Acute Tox. 4; H312, Acute Tox. 4; H332, Aquatic Chronic 2; H411

• **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: Skin Irrit. 2; H315, Eye Irrit. 2; H319, STOT SE 3; H335, Carc. 2; H351, Aquatic Acute 1; H400, Aquatic Chronic 1; H410, STOT RE 2; H373

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}

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

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

copper {dicopper oxide; copper (I) oxide}

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

lead {lead chromate}

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

manganese {manganese sulphate}

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 {nickel selenate}

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

iron {iron (III) oxide}

Harsher iron salts are implausible on this site based on site history and physical form (soils) of the waste.



sulfur {sulfur}

Worse case compound

Appendix C: Version

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

HazWasteOnline Classification Engine Version: 2025.121.6595.11991 (01 May 2025)

HazWasteOnline Database: 2025.119.6590.11983 (29 Apr 2025)

This classification utilises the following guidance and legislation:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020

GB MCL List - version 1.1 of 09 June 2021

GB MCL List v2.0 - version 2.0 of 20th October 2023

GB MCL List v3.0 - version 3.0 of 11th January 2024

GB MCL List v4.0 - version 4.0 of 2nd March 2024

GB MCL List v5.0 - version 5.0 of 26th June 2024

GB MCL List v6.0 - version 6.0 of 15th February 2025

APPENDIX D - GEOTECHNICAL IN SITU FIELDWORK AND LABORATORY RESULTS

TEST REPORT

Client Tier Environmental Ltd

Address Suite 513
Chadwick House
Warrington Road
Birchwood
WA3 6AE

Contract TE1885 -
Bury Interchange

Job Number MRN 25010/29

Date of Issue 02 May 2025

Page 1 of 21

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.
- 5 The results included within the report are representative of the samples submitted for analysis.
- 6 This certificate should not be reproduced, except in full, without the express permission of the laboratory.



Andrew House, Hadfield Street, Dukinfield, Cheshire SK16 4QX Tel: 0161 475 0870
Email: enquiries@murrayrix.com Website: www.murrayrix.com

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MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

LIQUID LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.3 (30° FALL CONE) 1 POINT METHOD

PLASTIC LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.5

WATER CONTENT METHOD BS EN ISO 17892-1:2014+A1:2022

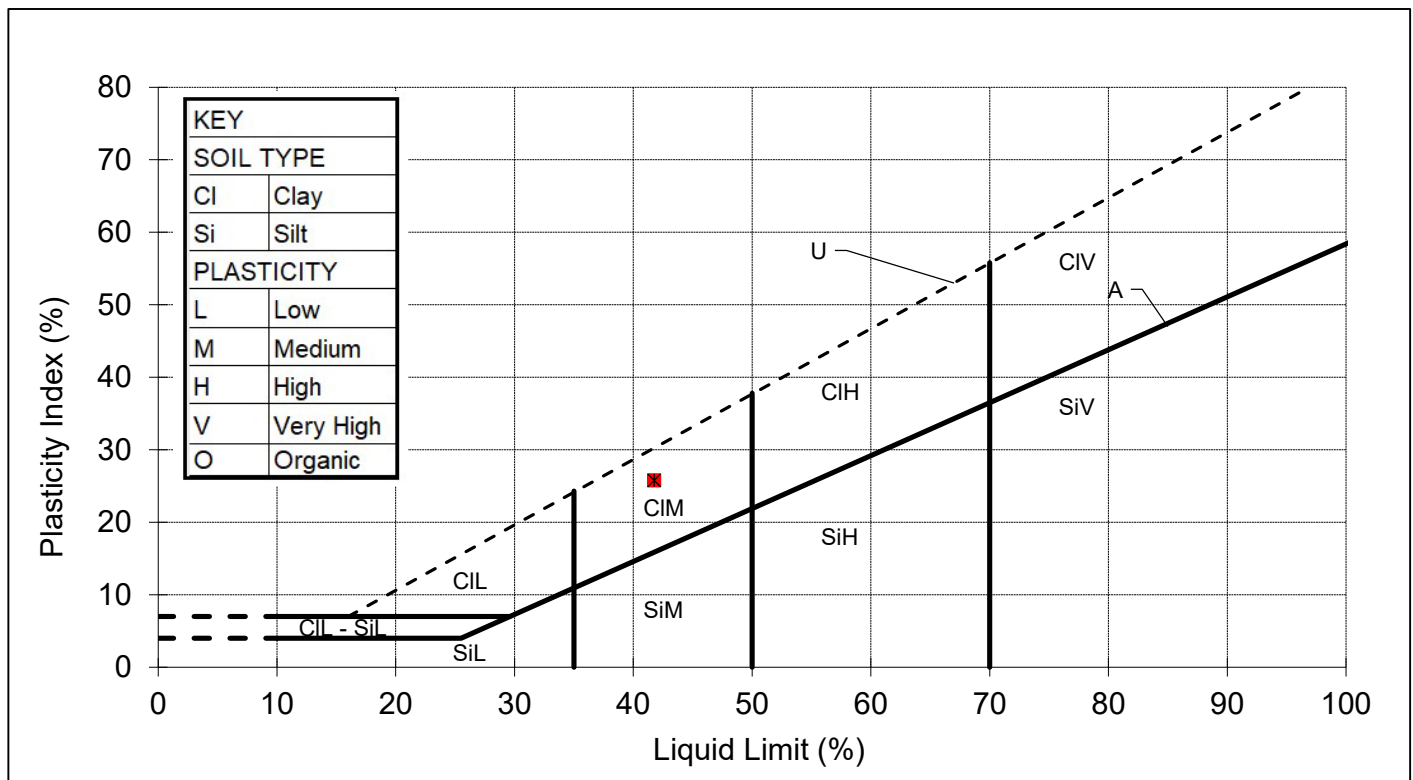
CLIENT	Tier Environmental Ltd
SITE	TE1885 - Bury Interchange
JOB NUMBER	MRN 25010/29

SAMPLE LABEL	BH104 2.3m D	DATE SAMPLED	Not advised
SAMPLE No.	5052151	DATE RECEIVED	02-Apr-25
DATE TESTED	16-Apr-25	SAMPLED BY	Client

MATERIAL	Brown silty slightly sandy gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample	WATER CONTENT	Increasing
SAMPLE HISTORY	Natural State	% RET. 425um BY	Wet Sieved

Test Readings mm (average)		Water Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	20.0	41.8	1.000	
Determination 2 (avg)	20.0	41.7		

Natural Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
34.8	42	16	26	77



REMARKS

SIGNED

NAME

O.P. Davies BA (Hons)
(Director / Head of Laboratory)

DATE

02-May-25

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PLASTIC LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.5

WATER CONTENT METHOD BS EN ISO 17892-1:2014+A1:2022

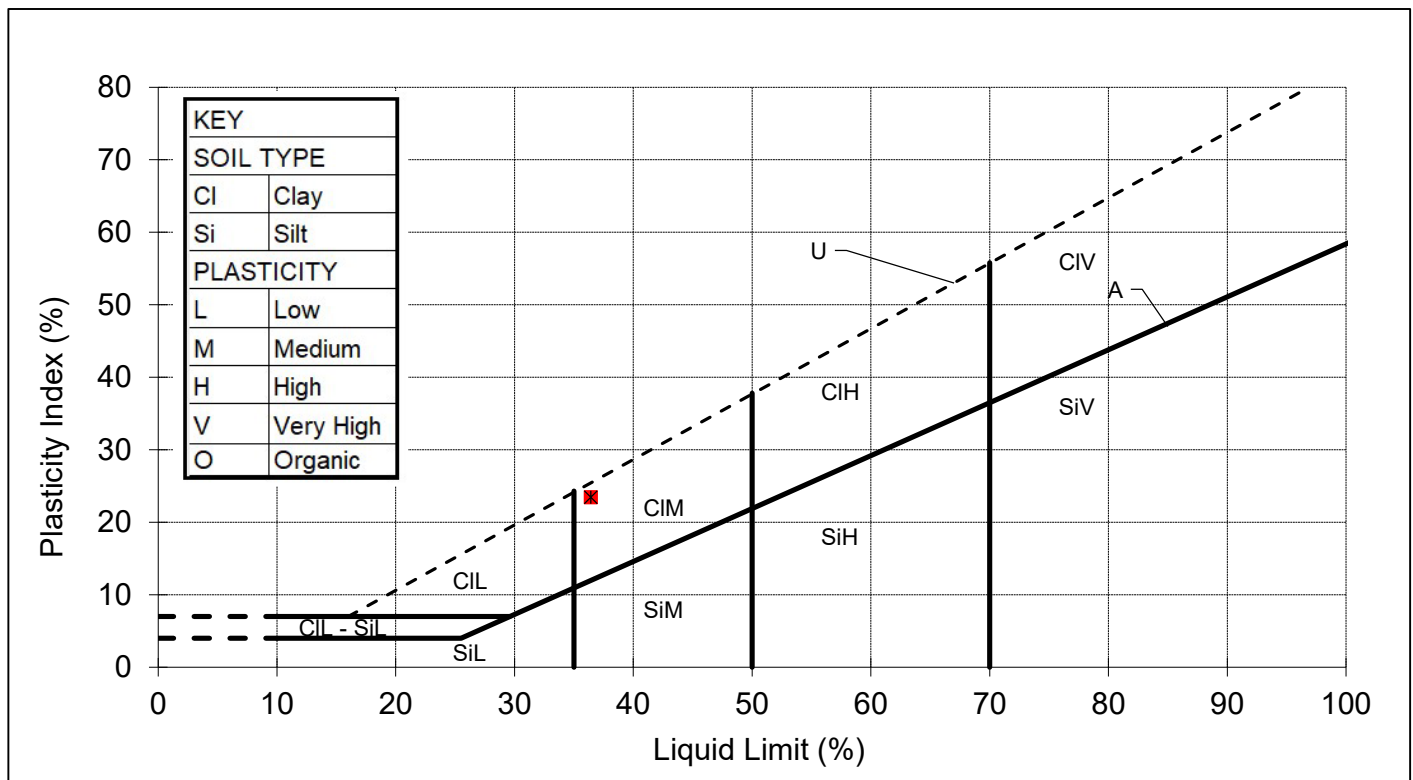
CLIENT	Tier Environmental Ltd
SITE	TE1885 - Bury Interchange
JOB NUMBER	MRN 25010/29

SAMPLE LABEL	BH104 4.5-4.95m D	DATE SAMPLED	Not advised
SAMPLE No.	5052130	DATE RECEIVED	02-Apr-25
DATE TESTED	16-Apr-25	SAMPLED BY	Client

MATERIAL	Brown silty slightly sandy gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample	WATER CONTENT	Increasing
SAMPLE HISTORY	Natural State	% RET. 425um BY	Wet Sieved

Test Readings mm (average)		Water Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	18.6	35.6	1.026	
Determination 2 (avg)	18.5	35.4		

Natural Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
14.7	36	13	23	82



REMARKS

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PLASTIC LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.5

WATER CONTENT METHOD BS EN ISO 17892-1:2014+A1:2022

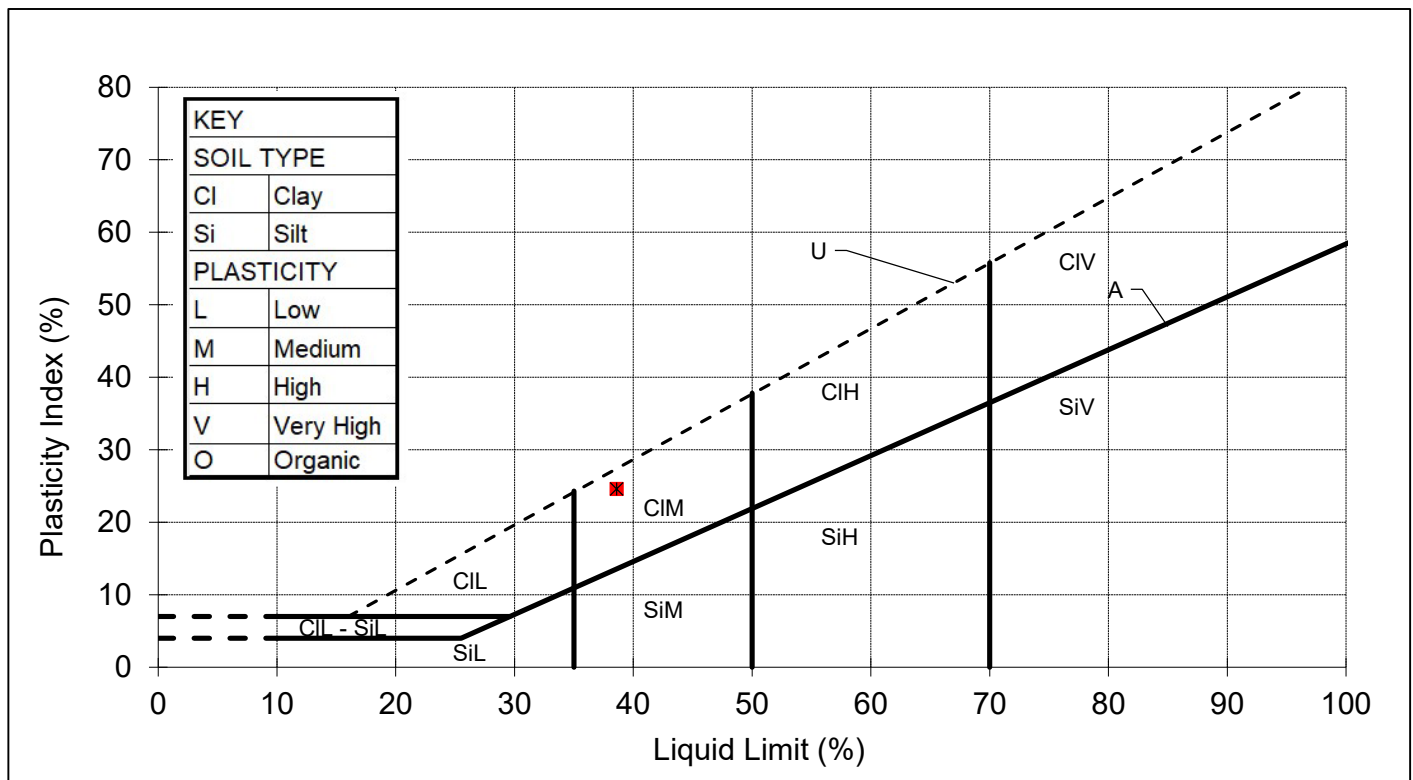
CLIENT	Tier Environmental Ltd		
SITE	TE1885 - Bury Interchange		
JOB NUMBER	MRN 25010/29		

SAMPLE LABEL	BH105 1.2m D	DATE SAMPLED	Not advised
SAMPLE No.	5052139	DATE RECEIVED	02-Apr-25
DATE TESTED	16-Apr-25	SAMPLED BY	Client

MATERIAL	Brown silty slightly sandy gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample	WATER CONTENT	Increasing
SAMPLE HISTORY	Natural State	% RET. 425um BY	Wet Sieved

Test Readings mm (average)		Water Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	20.0	38.6	0.996	
Determination 2 (avg)	20.5	38.9		

Natural Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
15.9	39	14	25	68



REMARKS

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PLASTIC LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.5

WATER CONTENT METHOD BS EN ISO 17892-1:2014+A1:2022

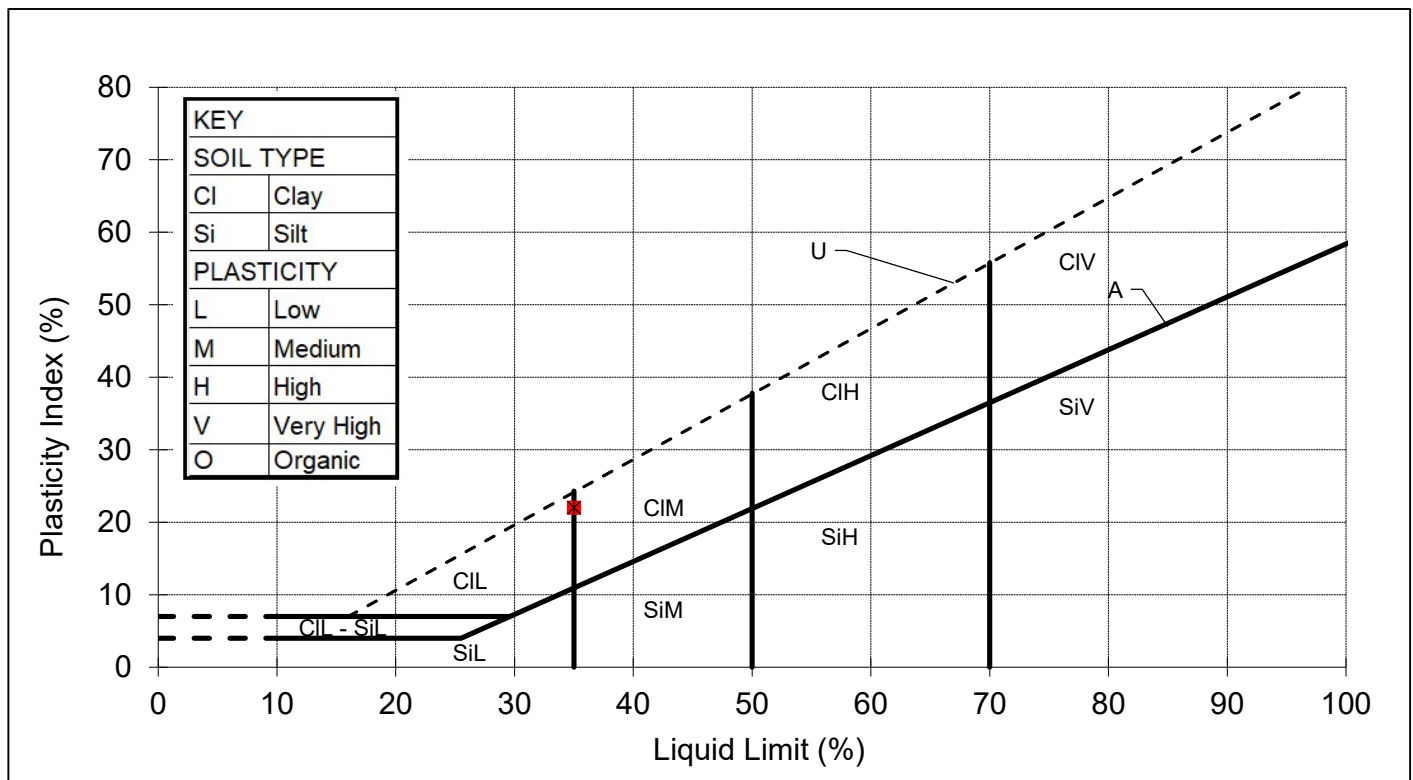
CLIENT	Tier Environmental Ltd		
SITE	TE1885 - Bury Interchange		
JOB NUMBER	MRN 25010/29		

SAMPLE LABEL	BH105 9.8m D	DATE SAMPLED	Not advised
SAMPLE No.	5052146	DATE RECEIVED	02-Apr-25
DATE TESTED	16-Apr-25	SAMPLED BY	Client

MATERIAL	Brown silty slightly sandy gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample	WATER CONTENT	Increasing
SAMPLE HISTORY	Natural State	% RET. 425um BY	Wet Sieved

Test Readings mm (average)		Water Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	19.6	34.8	1.005	
Determination 2 (avg)	19.8	34.9		

Natural Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
13.3	35	13	22	75



REMARKS

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PLASTIC LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.5

WATER CONTENT METHOD BS EN ISO 17892-1:2014+A1:2022

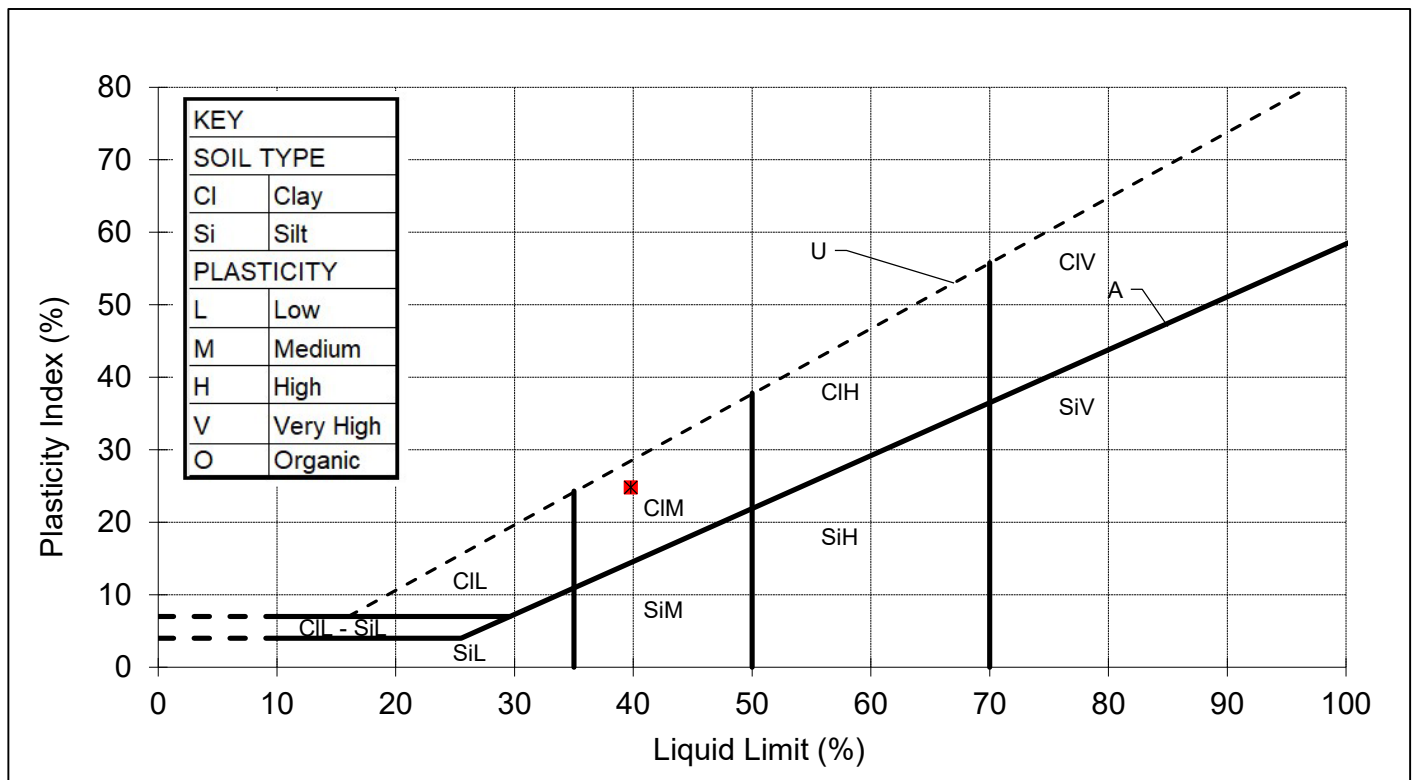
CLIENT	Tier Environmental Ltd
SITE	TE1885 - Bury Interchange
JOB NUMBER	MRN 25010/29

SAMPLE LABEL	WS-P2-106 1.2m D	DATE SAMPLED	Not advised
SAMPLE No.	5052154	DATE RECEIVED	02-Apr-25
DATE TESTED	16-Apr-25	SAMPLED BY	Client

MATERIAL	Brown silty slightly sandy gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample	WATER CONTENT	Increasing
SAMPLE HISTORY	Natural State	% RET. 425um BY	Wet Sieved

Test Readings mm (average)		Water Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	21.2	40.5	0.985	
Determination 2 (avg)	20.7	40.3		

Natural Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
20.5	40	15	25	86



REMARKS

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PLASTIC LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.5

WATER CONTENT METHOD BS EN ISO 17892-1:2014+A1:2022

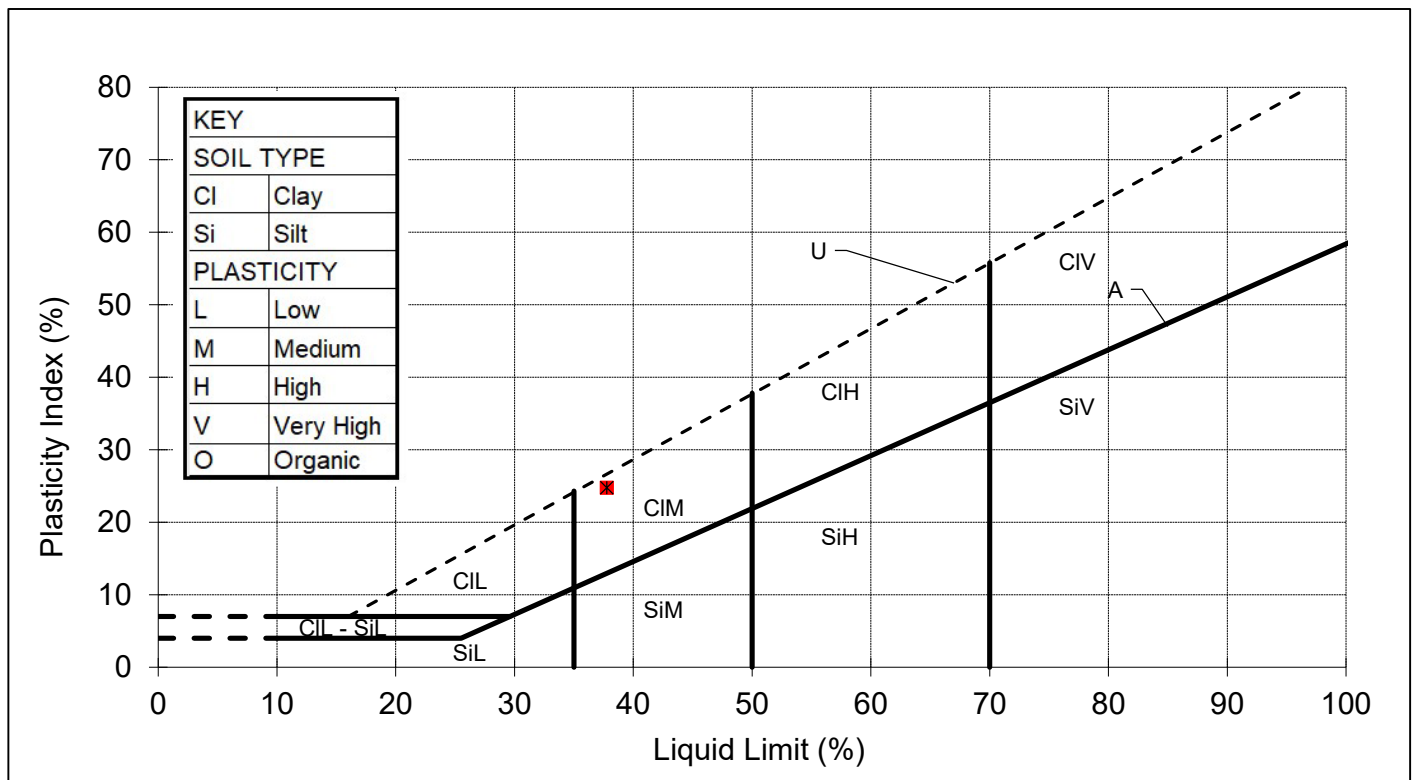
CLIENT	Tier Environmental Ltd
SITE	TE1885 - Bury Interchange
JOB NUMBER	MRN 25010/29

SAMPLE LABEL	WS-P2-107 2.0m D	DATE SAMPLED	Not advised
SAMPLE No.	5052158	DATE RECEIVED	02-Apr-25
DATE TESTED	16-Apr-25	SAMPLED BY	Client

MATERIAL	Brown silty slightly sandy gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample	WATER CONTENT	Increasing
SAMPLE HISTORY	Natural State	% RET. 425um BY	Wet Sieved

Test Readings mm (average)		Water Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	20.0	37.7	1.003	
Determination 2 (avg)	19.7	37.6		

Natural Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
12.8	38	13	25	80



REMARKS

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PLASTIC LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.5

WATER CONTENT METHOD BS EN ISO 17892-1:2014+A1:2022

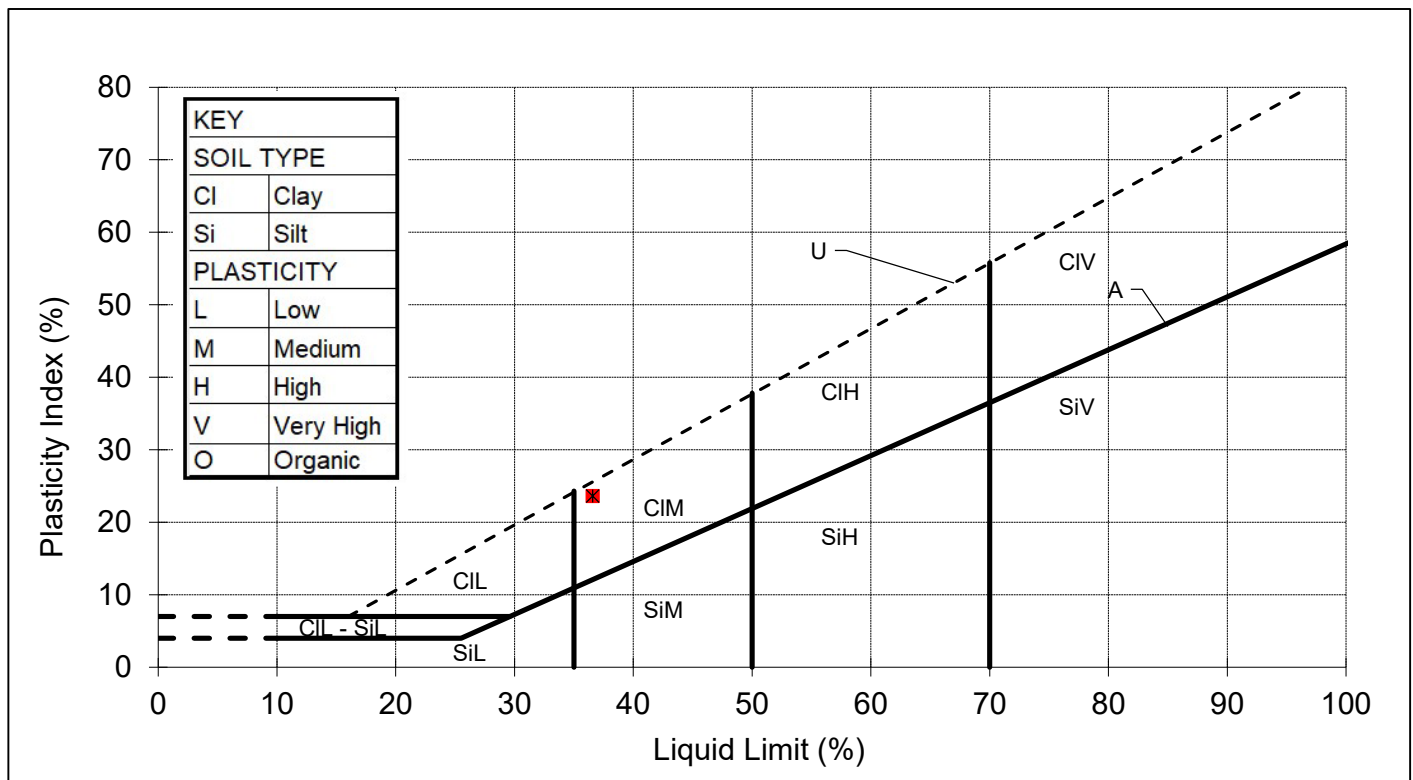
CLIENT	Tier Environmental Ltd
SITE	TE1885 - Bury Interchange
JOB NUMBER	MRN 25010/29

SAMPLE LABEL	WS-P2-110 1.2m D	DATE SAMPLED	Not advised
SAMPLE No.	5052168	DATE RECEIVED	02-Apr-25
DATE TESTED	16-Apr-25	SAMPLED BY	Client

MATERIAL	Brown silty slightly sandy gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample	WATER CONTENT	Increasing
SAMPLE HISTORY	Natural State	% RET. 425um BY	Wet Sieved

Test Readings mm (average)		Water Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	18.9	35.9	1.016	
Determination 2 (avg)	19.0	36.1		

Natural Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
14.8	37	13	24	84



REMARKS

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PLASTIC LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.5

WATER CONTENT METHOD BS EN ISO 17892-1:2014+A1:2022

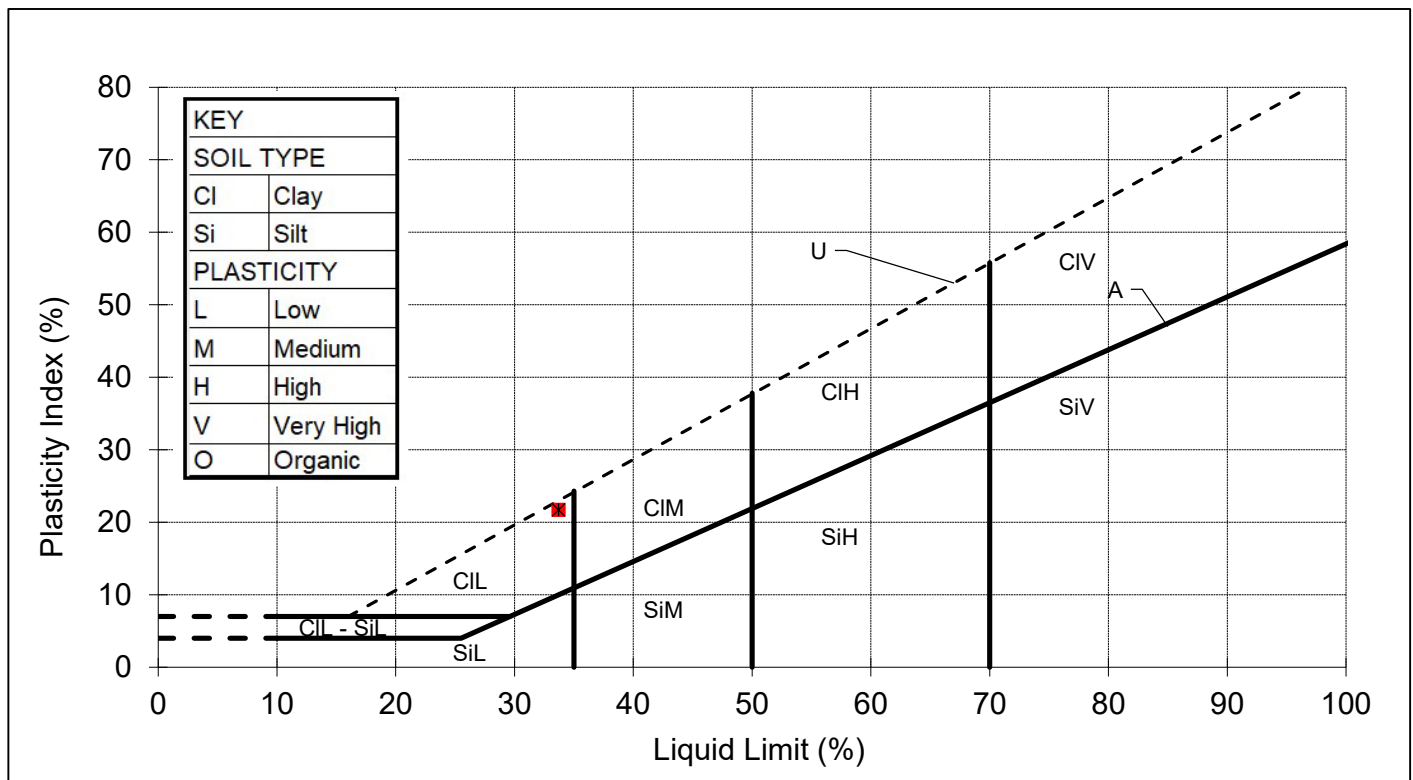
CLIENT	Tier Environmental Ltd		
SITE	TE1885 - Bury Interchange		
JOB NUMBER	MRN 25010/29		

SAMPLE LABEL	WS-P2-110 3.0m D	DATE SAMPLED	Not advised
SAMPLE No.	5052162	DATE RECEIVED	02-Apr-25
DATE TESTED	16-Apr-25	SAMPLED BY	Client

MATERIAL	Brown silty slightly sandy gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample	WATER CONTENT	Increasing
SAMPLE HISTORY	Natural State	% RET. 425um BY	Wet Sieved

Test Readings mm (average)		Water Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	20.0	33.8	1.002	
Determination 2 (avg)	19.8	33.5		

Natural Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
11.0	34	12	22	69



REMARKS

SIGNED

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(Director / Head of Laboratory)

DATE

02-May-25

TEST CERTIFICATE
PARTICLE SIZE DISTRIBUTION

BS EN ISO 17892-4:2016

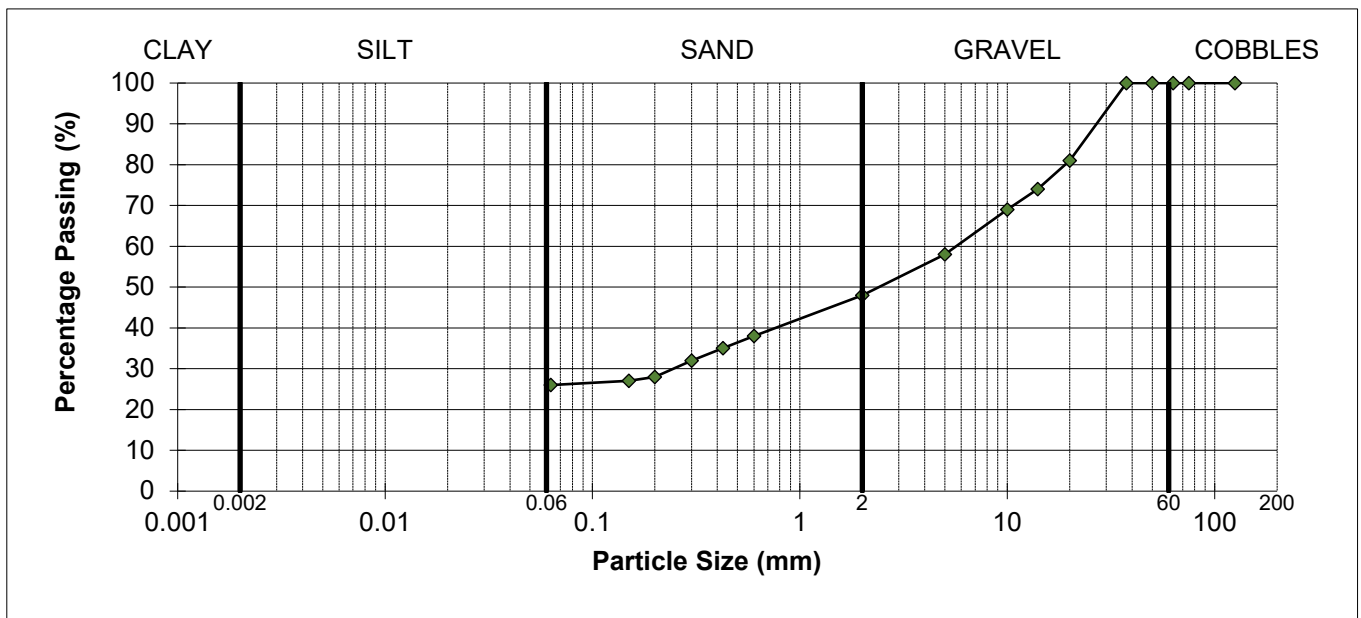
Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

CLIENT	Tier Environmental Ltd
SITE	TE1885 - Bury Interchange
JOB NUMBER	MRN 25010/29

SAMPLE LABEL	BH104 2.3-2.6m B	DATE SAMPLED	Not advised
LAB SAMPLE No	5052111	DATE RECEIVED	02-Apr-25
DATE TESTED	08-Apr-25	SAMPLED BY	Client

MATERIAL	Brown silty SAND & GRAVEL
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		5	58	
75	100		2	48	
63	100		0.6	38	
50	100		0.425	35	
37.5	100		0.3	32	
20	81		0.2	28	
14	74		0.15	27	
10	69		0.063	26	



REMARKS

As received water content = 16.4%

SIGNED



NAME

O.P. Davies BA (Hons)
(Director / Head of Laboratory)

DATE

02-May-25

TEST CERTIFICATE
PARTICLE SIZE DISTRIBUTION

BS EN ISO 17892-4:2016

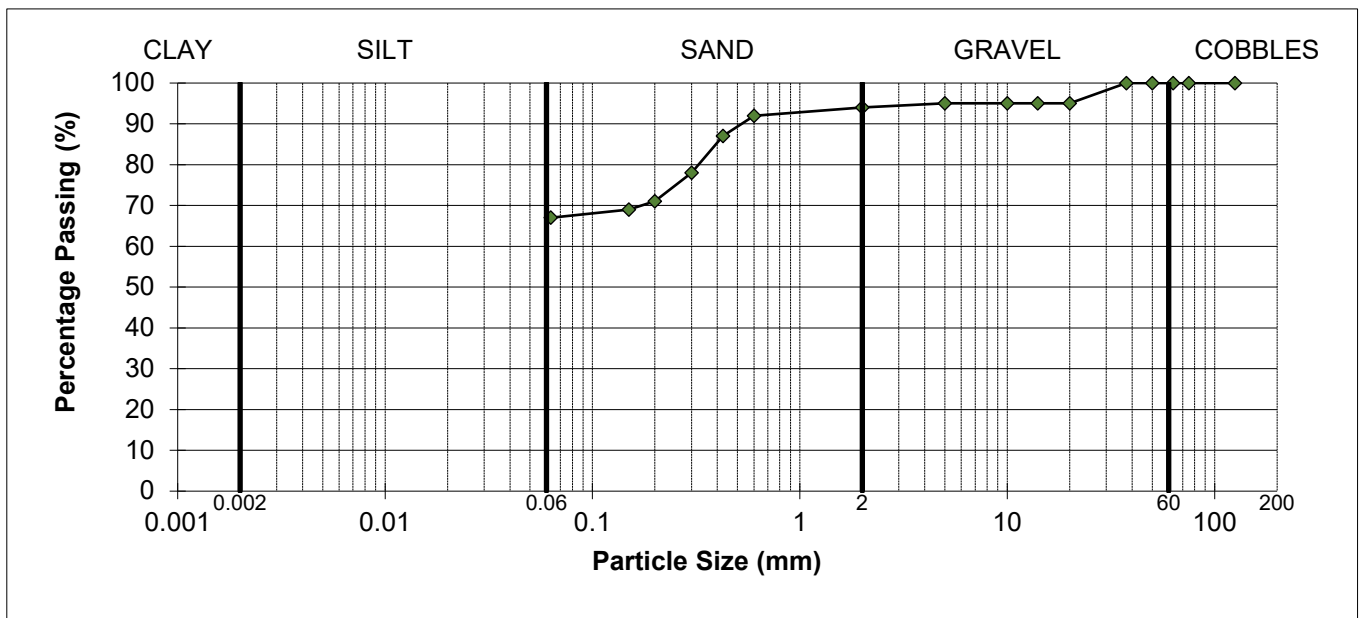
Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

CLIENT	Tier Environmental Ltd		
SITE	TE1885 - Bury Interchange		
JOB NUMBER	MRN 25010/29		

SAMPLE LABEL	BH104 11.5-11.8m B	DATE SAMPLED	Not advised
LAB SAMPLE No	5052113	DATE RECEIVED	02-Apr-25
DATE TESTED	08-Apr-25	SAMPLED BY	Client

MATERIAL	Brown silty sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		5	95	
75	100		2	94	
63	100		0.6	92	
50	100		0.425	87	
37.5	100		0.3	78	
20	95		0.2	71	
14	95		0.15	69	
10	95		0.063	67	



REMARKS

As received water content = 19.7%

SIGNED



NAME

O.P. Davies BA (Hons)
(Director / Head of Laboratory)

DATE

02-May-25

TEST CERTIFICATE
PARTICLE SIZE DISTRIBUTION

BS EN ISO 17892-4:2016

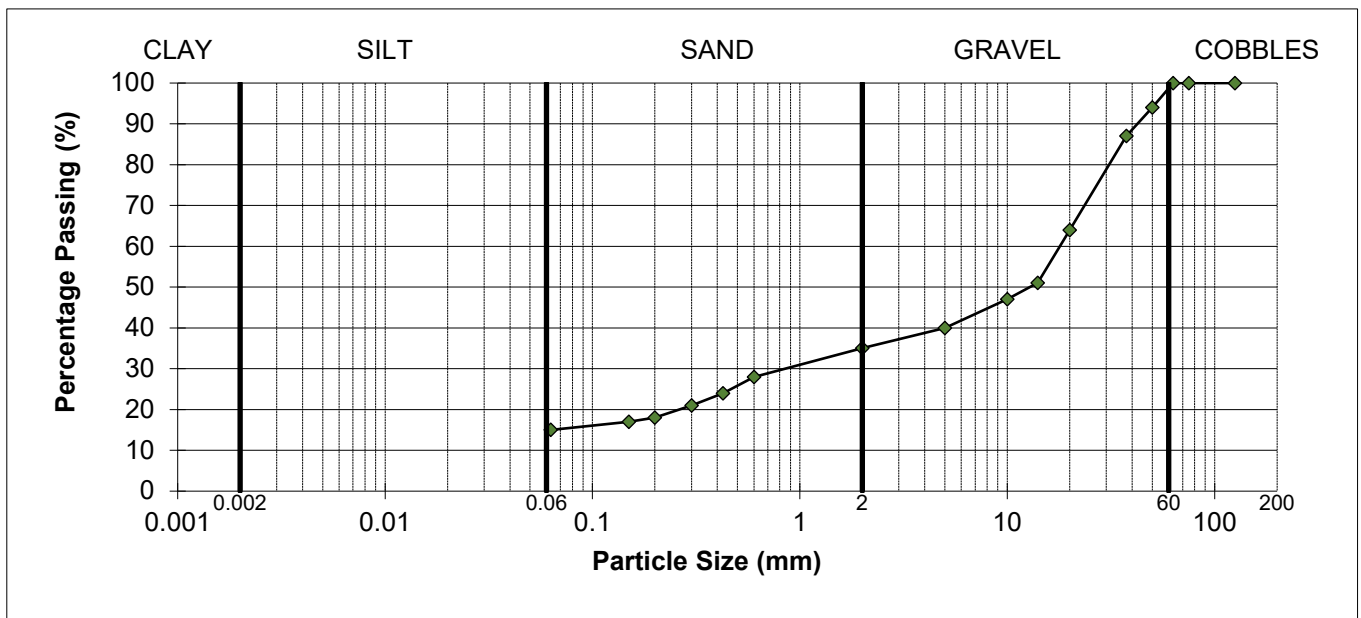
Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

CLIENT	Tier Environmental Ltd		
SITE	TE1885 - Bury Interchange		
JOB NUMBER	MRN 25010/29		

SAMPLE LABEL	TP-P2-101 0.4-1.0m B	DATE SAMPLED	Not advised
LAB SAMPLE No	5052119	DATE RECEIVED	02-Apr-25
DATE TESTED	08-Apr-25	SAMPLED BY	Client

MATERIAL	Brown silty sandy GRAVEL		
ADVISED SOURCE	Site Investigation Sample		

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		5	40	
75	100		2	35	
63	100		0.6	28	
50	94		0.425	24	
37.5	87		0.3	21	
20	64		0.2	18	
14	51		0.15	17	
10	47		0.063	15	



REMARKS

As received water content = 8.9%

SIGNED



NAME

O.P. Davies BA (Hons)
(Director / Head of Laboratory)

DATE

02-May-25

TEST CERTIFICATE
PARTICLE SIZE DISTRIBUTION

BS EN ISO 17892-4:2016

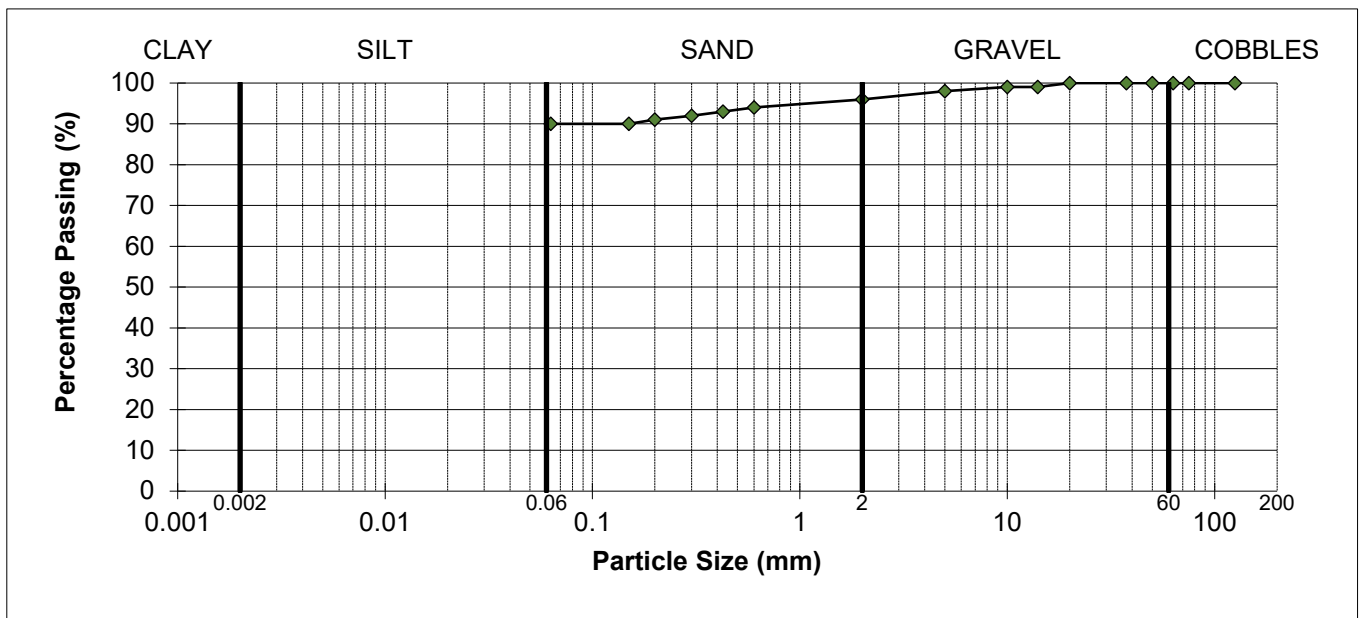
Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

CLIENT	Tier Environmental Ltd
SITE	TE1885 - Bury Interchange
JOB NUMBER	MRN 25010/29

SAMPLE LABEL	TP-P2-106 0.7m B	DATE SAMPLED	Not advised
LAB SAMPLE No	5052124	DATE RECEIVED	02-Apr-25
DATE TESTED	08-Apr-25	SAMPLED BY	Client

MATERIAL	Brown silty slightly sandy slightly gravelly CLAY
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		5	98	
75	100		2	96	
63	100		0.6	94	
50	100		0.425	93	
37.5	100		0.3	92	
20	100		0.2	91	
14	99		0.15	90	
10	99		0.063	90	



REMARKS

As received water content = 23.2%

SIGNED



NAME

O.P. Davies BA (Hons)
(Director / Head of Laboratory)

DATE

02-May-25

TEST CERTIFICATE
PARTICLE SIZE DISTRIBUTION

BS EN ISO 17892-4:2016

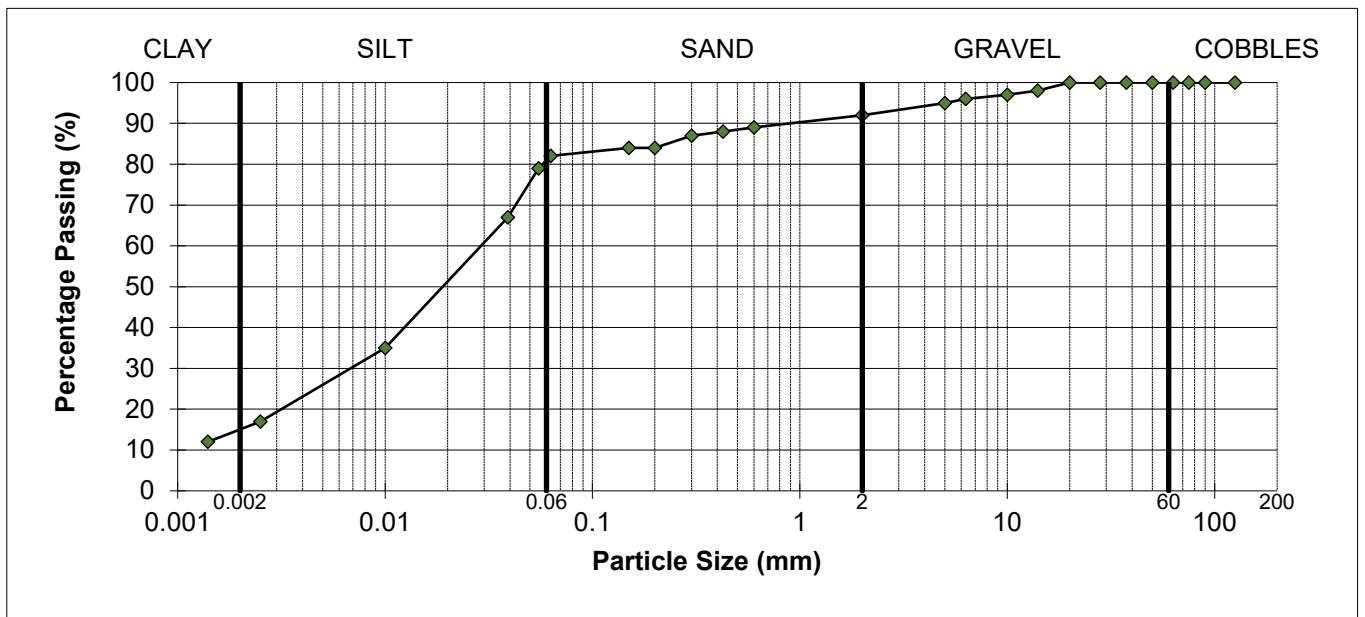
Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

CLIENT	Tier Environmental Ltd
SITE	TE1885 - Bury Interchange
JOB NUMBER	MRN 25010/29

SAMPLE LABEL	BH105 8.5-8.7m B	DATE SAMPLED	Not advised
LAB SAMPLE No	5052118	DATE RECEIVED	02-Apr-25
DATE TESTED	08-Apr-25	SAMPLED BY	Client

MATERIAL	Brown silty slightly sandy slightly gravelly CLAY
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		2	92	
90	100		0.6	89	
75	100		0.425	88	
63	100		0.3	87	
50	100		0.2	84	
37.5	100		0.15	84	
28	100		0.063	82	
20	100		0.055	79	
14	98		0.039	67	
10	97		0.01	35	
6.3	96		0.0025	17	
5	95		0.0014	12	



REMARKS

As received water content = 12.7%

SIGNED

NAME

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DATE

02-May-25

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

DRY DENSITY/WATER CONTENT RELATIONSHIP 2.5kg RAMMER

BS 1377-2:2022 Cl.11

PARTICLE DENSITY METHOD BS 1377-2:2022 Cl.9.2

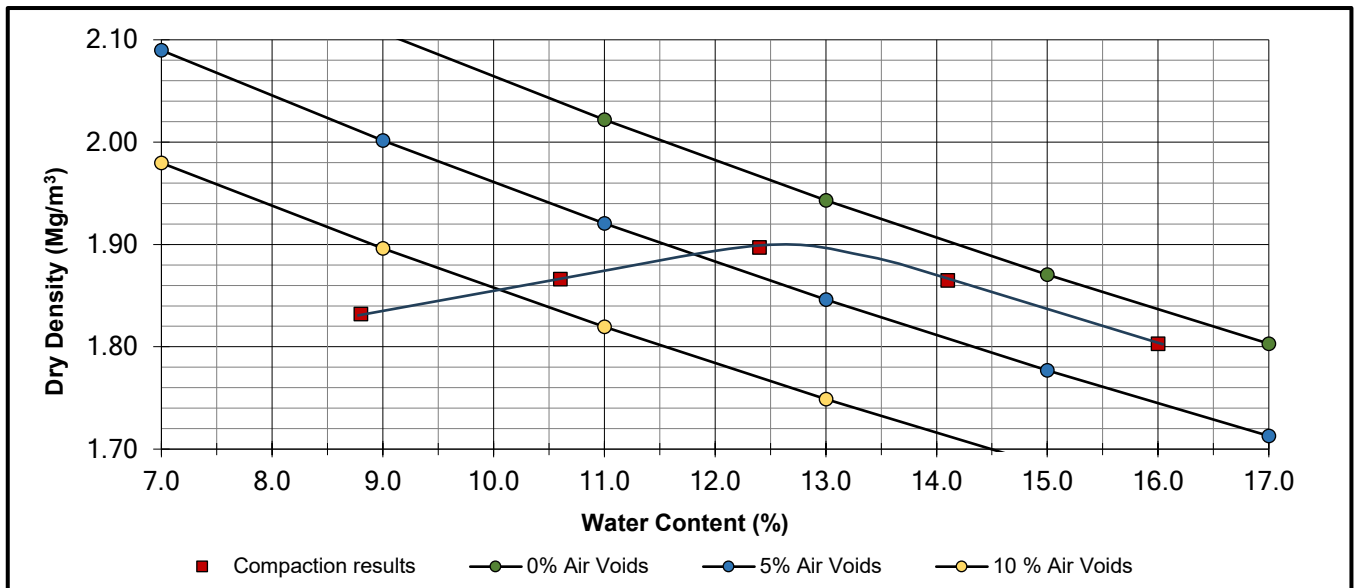
CLIENT	Tier Environmental Ltd		
SITE	TE1885 - Bury Interchange		
JOB NUMBER	MRN 25010/29		

SAMPLE LABEL	TP-P2-101 0.4-1.0m B	DATE SAMPLED	Not advised
SAMPLE NUMBER	5052119	DATE RECEIVED	02-Apr-25
DATE TESTED	17-Apr-25	SAMPLED BY	Client

MATERIAL	Brown silty sandy GRAVEL		
ADVISED SOURCE	Site Investigation Sample		
PRE TREATMENT	Air Dried / Single Sample		

RETAINED 37.5mm	13	%	GRADING ZONE	Zone X
RETAINED 20mm	36	%	PARTICLE DENSITY	2.60 Mg/m ³ (Assumed)

POINT NUMBER	WATER CONTENT (%)	DRY DENSITY (Mg/m ³)
1	8.8	1.832
2	10.6	1.866
3	12.4	1.897
4	14.1	1.865
5	16.0	1.803



OPTIMUM WATER CONTENT	13	(%)
MAXIMUM DRY DENSITY	1.90	(Mg/m ³)

REMARKS

NAME O.P. Davies BA (Hons)
(Director / Head of Laboratory)

SIGNED

DATE 02-May-25

MURRAY RIX

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DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

DRY DENSITY/WATER CONTENT RELATIONSHIP 2.5kg RAMMER

BS 1377-2:2022 Cl.11

PARTICLE DENSITY METHOD BS 1377-2:2022 Cl.9.2

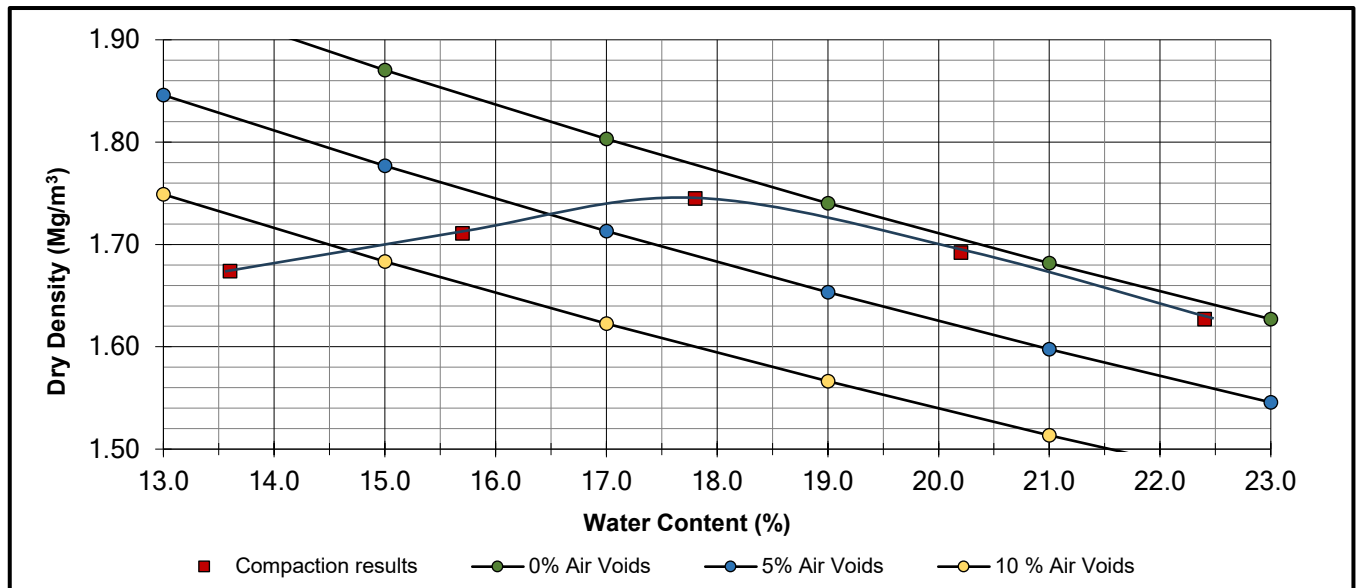
CLIENT	Tier Environmental Ltd		
SITE	TE1885 - Bury Interchange		
JOB NUMBER	MRN 25010/29		

SAMPLE LABEL	TP-P2-106 0.7m B	DATE SAMPLED	Not advised
SAMPLE NUMBER	5052124	DATE RECEIVED	02-Apr-25
DATE TESTED	17-Apr-25	SAMPLED BY	Client

MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		
PRE TREATMENT	Air Dried / Single Sample		

RETAINED 37.5mm	0 %	GRADING ZONE	Zone 1
RETAINED 20mm	0 %	PARTICLE DENSITY	2.60 Mg/m ³ (Assumed)

POINT NUMBER	WATER CONTENT (%)	DRY DENSITY (Mg/m ³)
1	13.6	1.674
2	15.7	1.711
3	17.8	1.745
4	20.2	1.692
5	22.4	1.627



OPTIMUM WATER CONTENT	18 (%)
MAXIMUM DRY DENSITY	1.74 (Mg/m ³)

REMARKS

NAME O.P. Davies BA (Hons)
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DATE 02-May-25

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TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION
BS EN ISO 17892-8:2018

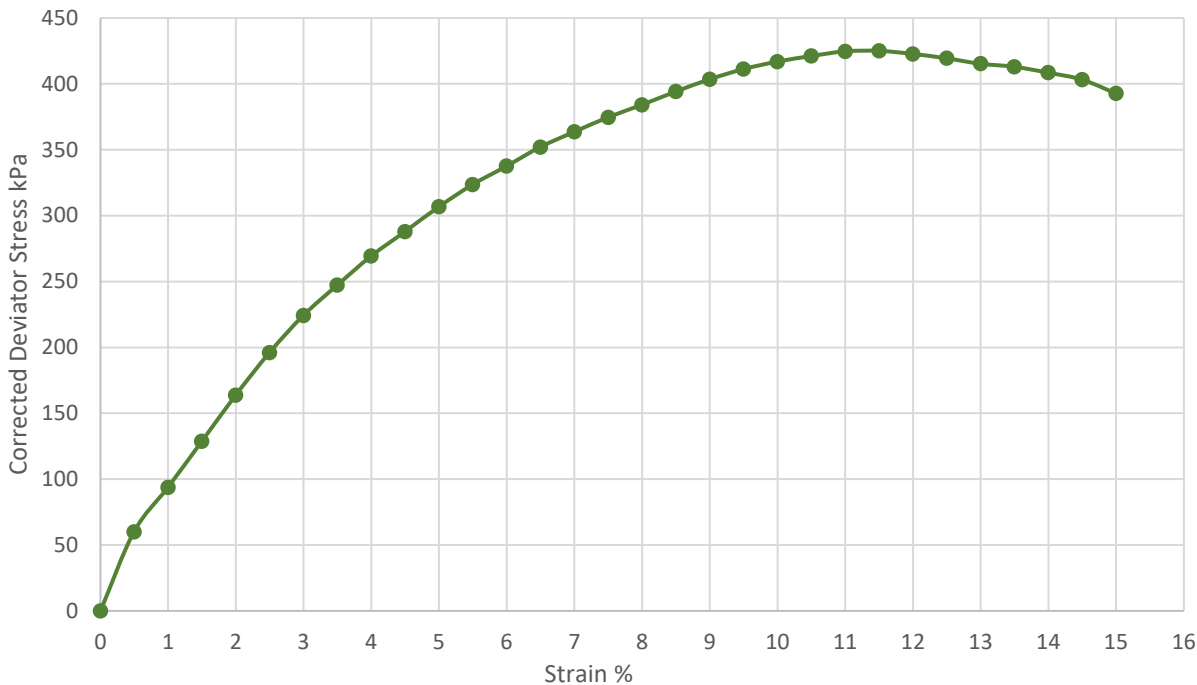
CLIENT	Tier Environmental Ltd
SITE	TE1885 - Bury Interchange
JOB NUMBER	MRN 25010/29

SAMPLE LABEL	BH105 3.0-3.45m U	DATE SAMPLED	Not advised
LAB SAMPLE No.	5052166	DATE RECEIVED	02-Apr-25
DATE TESTED	21-Apr-25	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

INITIAL CONDITIONS

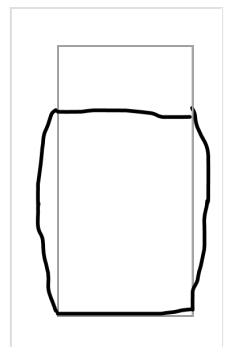
Specimen Location	Sample Length (mm)	400	Specimen depth from top of Sample (mm)	60
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	203	Specimen Water Content (%)	13.2
	Specimen Diameter (mm)	102	Specimen Bulk Density (Mg/m3)	2.18
	Membrane Thickness (mm)	0.4	Specimen Dry Density (Mg/m3)	1.93
	Membrane Correction	3.39		

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN



TEST TYPE
SINGLE STAGE

SKETCH OF
SPECIMEN AT
FAILURE



PLASTIC

Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength C_u (kPa)
60	11.5	2.0	425	213

Remarks/Abnormalities

Name O.P. Davies BA (Hons)
(Director / Head of Laboratory)

Signed

Date 02 May 2025

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

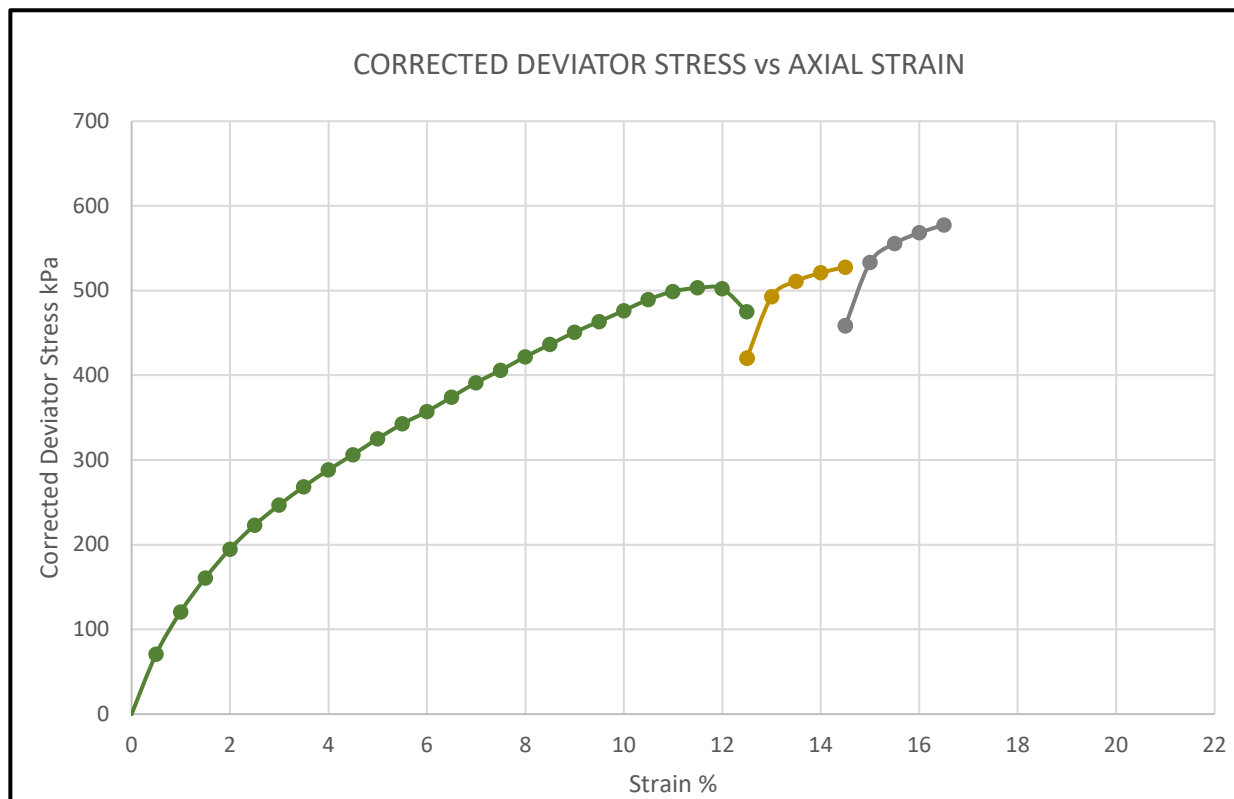
BS 1377 : PART 7: Clause 9 Multi Stage

CLIENT	Tier Environmental Ltd
SITE	TE1885 - Bury Interchange
JOB NUMBER	MRN 25010/29

SAMPLE LABEL	BH104 8.4-8.85m U	DATE SAMPLED	Not advised
LAB SAMPLE No.	5052165	DATE RECEIVED	02-Apr-25
DATE TESTED	21-Apr-25	SAMPLED BY	Client
MATERIAL	Brown silty slightly sandy gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

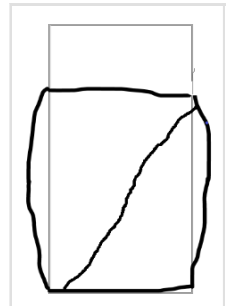
INITIAL CONDITIONS

Specimen Location	Sample Length (mm)	420	Specimen depth from top of Sample (mm)	20
	Sample Orientation	Vertical	Specimen Condition	Undisturbed
	Specimen Length (mm)	194	Specimen Moisture Content (%)	15.2
	Specimen Diameter (mm)	103	Specimen Bulk Density (Mg/m3)	2.11
	Membrane Thickness (mm)	0.40	Specimen Dry Density (Mg/m3)	1.83
	Membrane Correction	1.10	1.36	1.47



TEST TYPE
MULTI STAGE

SKETCH OF
SPECIMEN AT
FAILURE



COMBINED

Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength Cu (kPa)
94	12	2	503.1	252
188	15	2	527.7	264
376	17	2	577.3	289

Remarks/Abnormalities

Name O.P. Davies BA (Hons)
(Director / Head of Laboratory)

Signed

Date 02 May 2025

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870



TEST CERTIFICATE

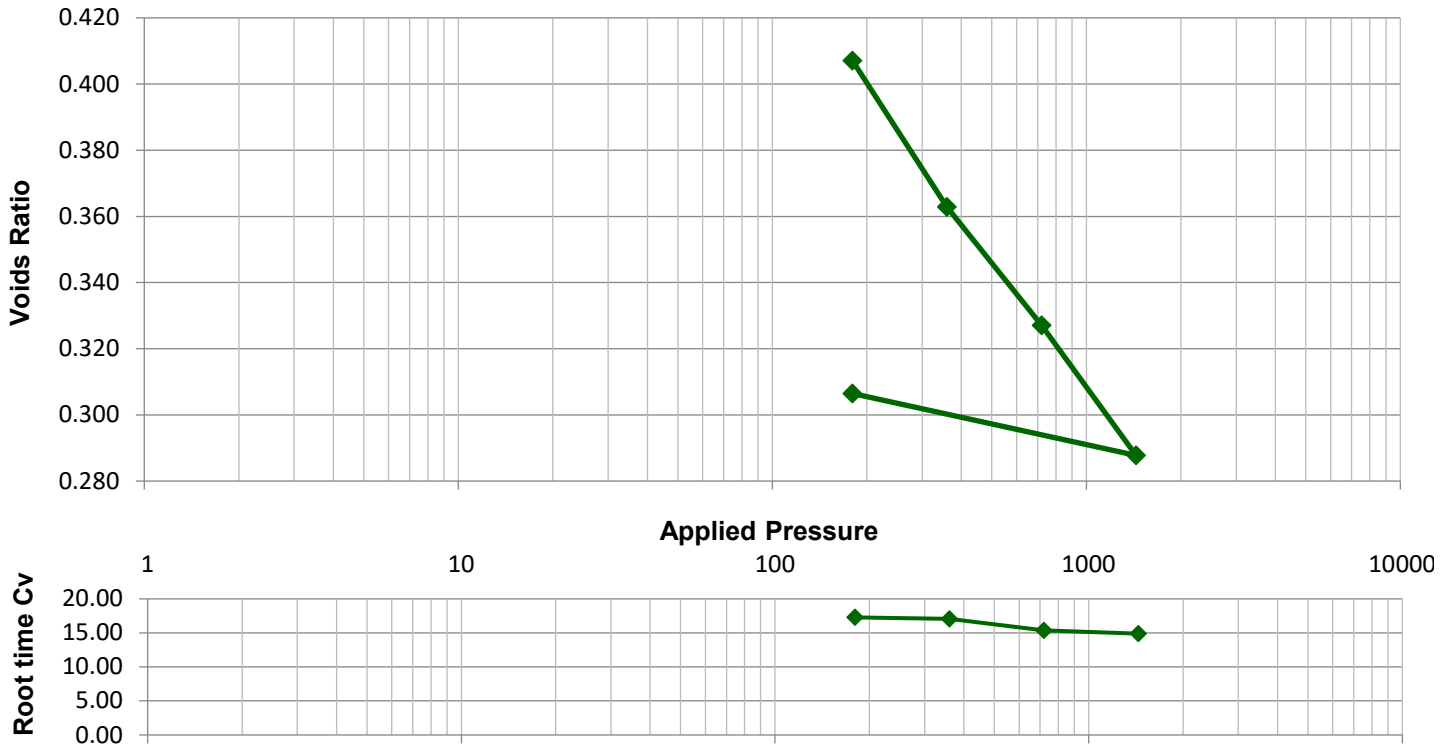
INCREMENTAL LOADING OEDOMETER TEST
BS EN ISO 17892-5:2017

CLIENT	Tier Environmental Ltd
SITE	TE1885 - Bury Interchange
JOB NUMBER	MRN 25010/29

SAMPLE LABEL	BH104 8.4-8.85m U	DATE SAMPLED	Not advised
LAB SAMPLE No.	5052165	DATE RECEIVED	02-Apr-25
DATE TESTED	16-Apr-25	SAMPLED BY	
MATERIAL	Brown silty slightly sandy slightly gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample		

Specimen Location	Sample Length (mm)	420	Specimen depth from top of Sample (mm)	330
	Sample Orientation	Vertical	Specimen Condition	Undisturbed

INITIAL CONDITIONS						Load No.	Applied Pressure	Sample Height	Void Ratio	Mv	Temp	Cv t90 root	Cv t50 log
							kPa	mm		m ² /MN	°C	m ² /yr	m ² /yr
Height	20.0	mm	Particle density	2.65	Ass	1	180	19.47	0.407	0.14	20	17.28	18.07
Diameter	69.3	mm	Initial void ratio	0.44		2	360	18.86	0.363	0.17	20	17.09	16.43
Weight wet	158.9	g	Deg. of sat.	89	%	3	720	18.37	0.327	0.07	20	15.39	15.64
Water cont.*	14.9	%	Swell. press.	2	kN/m ²	4	1440	17.82	0.288	0.04	20	14.89	13.96
Bulk Density	2.11	Mg/m ³	Dry density	1.84	Mg/m ³	5	180	18.08	0.306	0.01	20		
*determined from specimen trimmings						6							
						7							



REMARKS

NAME O.P. Davies BA (Hons)
(Director / Head of Laboratory)

SIGNED

DATE 02-May-25

MURRAY RIX

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DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870

TEST CERTIFICATE

DETERMINATION OF POINT LOAD STRENGTH INDEX OF ROCK
METHOD IN ACCORDANCE WITH ASTM STANDARD D 5731

CLIENT	Tier Environmental Ltd
SITE	TE1885 - Bury Interchange
JOB NUMBER	MRN 25010/29

DATE RECEIVED	02-Apr-25 & 04-Apr-25	DATE SAMPLED	Not advised
DATE TESTED	18-Apr-25	SAMPLED BY	Client

MATERIAL	Rock Core
ADVISED SOURCE	Site Investigation Sample

Sample Number	B/H No.	Depth (m)	Test Type*	D (mm)	W** (mm)	Load (P) (kN)	D _e ² (mm ²)	D _e (mm)	I _s (MPa)	F	I _{s(50)} (MPa)
5056901	#####	15.5m	D	84.9		0.2	7208.01	84.90	0.03	1.27	0.04
5056902	#####	18.7-18.8m	A	85.1	55.0	1.3	5959.40	77.20	0.22	1.22	0.27
5056903	#####	25.2-25.3m	A	85.1	60.2	1.1	6522.83	80.76	0.17	1.24	0.21
5052101	#####	10.7-10.8m	A	89.9	54.8	1.0	6272.64	79.20	0.16	1.23	0.20
5052104	#####	12.1-12.2m	D	90.1		1.1	8118.01	90.10	0.14	1.30	0.18
5052106	#####	14.2-14.3m	A	89.9	39.8	0.8	4555.68	67.50	0.18	1.14	0.20
5052108	#####	17.5-17.8m	D	89.9		1.4	8082.01	89.90	0.17	1.30	0.23
5052110	#####	19.4-19.5m	D	89.8		0.9	8064.04	89.80	0.11	1.30	0.15
Test Type *								**W Entry required if test type is not Diametral			
A		Axial Test		D	Diametral Test						
B		Block Test		I	Irregular Lump Test						

REMARKS

SIGNED

NAME O.P. Davies BA (Hons)
(Director / Head of Laboratory)

DATE 02-May-25

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870

TEST CERTIFICATE

DETERMINATION OF THE COMPRESSIVE STRENGTH OF INTACT ROCK CORE SPECIMENS

ASTM D7012 - 14 Method C

CLIENT	Tier Environmental Ltd
SITE	TE1885 - Bury Interchange
JOB NUMBER	MRN 25010/29

DATE RECEIVED	02-Apr-25	DATE SAMPLED	Not advised
DATE TESTED	18-Apr-25	SAMPLED BY	Client
MATERIAL TESTED	Rock Core		

Sample Number	B/H No.	Sample Depth	Tested By	Diameter (mm)	Length* (mm)	L/D Ratio	Method of Preparation	Load at Failure (kN)	Compressive Strength (N/mm ²)	Description after Test
5052103	BH P2-105	11.1-11.8m	M.R.	90	180	2.00	Saw / Grinding	5.7	0.9	Split vertically top to bottom with no visible end defects
5052107	BH P2-105	15.5-15.75m	M.R.	90	180	2.00	Saw / Grinding	5.4	0.8	Split vertically top to bottom with no visible end defects
5052109	BH P2-105	17.9-18.1m	M.R.	90	180	2.00	Saw / Grinding	6.9	1.1	Split vertically top to bottom with no visible end defects

Comments / Deviation from standard method / Abnormalities noted during visual inspection.

*Length after sample preparation

NAME

O.P. Davies BA (Hons)
(Director / Head of Laboratory)

SIGNED



DATE 02-May-25

**Tier Environmental**

Unit 5, Office Village
Sandpiper Court, Chester Business Park
Chester
CH4 9QZ

Client:

Willmott Dixon Construction Ltd

Site:

Bury Interchange

Test ID:

SA-P2-101

Job Number:

TE1885

Technician:

SE

Test Date:

27.03.2025

Test Number:

1 of 1

Comments:

Soakage Pit Width [m] 0.8

Soakage Pit Length [m] 2

Soakage Pit Depth [m] 2.3

Depth to water at start of test bgl [m] 0.71

Effective Storage Depth [m] 1.59

Free Volume [%] 100

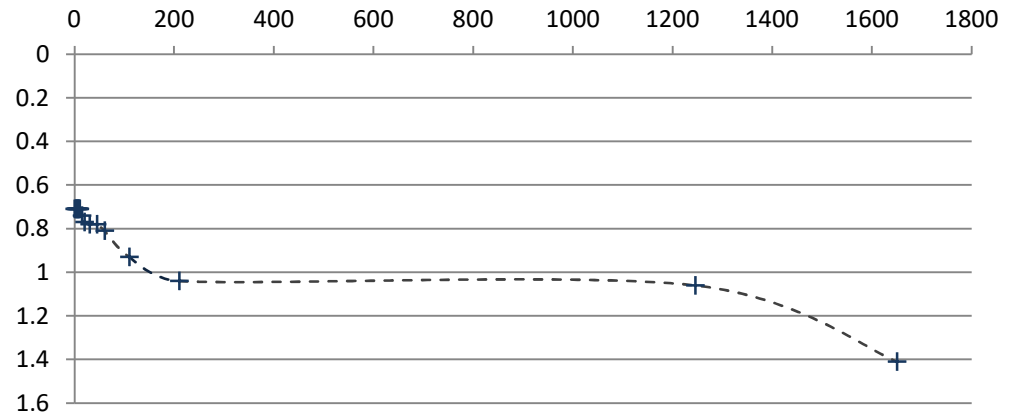
Effective Depth at 25% Drainage 1.1075

Effective Depth at 75% Drainage 1.9025

Time to Drain From 25% to 75% [s] N/A

Internal Surface Area [m²] 6.052Effective Storage Volume [m³] 1.272

Test Completion [%] 44%

**Soil infiltration rate(m/s)**

Soakaway failed. Estimated to take at least 37 hours to drain 75%

SOAKAGE TRIAL PIT INFILTRATION TEST RESULTS

Measurement N°	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Time [min]	0	2	3	4	5	6	7	8	9	10	15	20	30	45	60	110	210	1245	1650	
Depth to water [m]	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.71	0.74	0.77	0.78	0.78	0.81	0.93	1.04	1.06	1.41	

**APPENDIX E - GROUNDWATER AND GAS MONITORING RESULTS & GAS ANALYSER
CALIBRATION CERTIFICATE**

Job No:	TE1882		
Visit No:	1	of	1
Operator:	JL		
Project Manager:	AR		

O ₂	n/a
----------------	-----

☐ Frozen

	Strong
--	--------

☐ Overcast

☐ Heavy

n/a	
-----	--

n/a	
-----	--

WATER DATA

[illegible]

APPENDIX F - PREVIOUS SITE INVESTIGATION REPORT (AVAILABLE AS A SEPARATE DOCUMENT)

APPENDIX G - DEFINITIONS OF TERMS USED IN QUALITATIVE AND QUANTITATIVE RISK ASSESSMENTS

CIRIA C552 Terminology

For the qualitative and quantitative assessment of risks posed by potential pollutant linkages have been undertaken using the risk matrix adapted from CIRIA C552 and outlined in the table below.

	Category	Definition
Potential severity	Severe	Acute (short term) risk to human health, Major pollution of sensitive controlled waters, ecosystems or habitat. Catastrophic damage to buildings or property or crops.
	Medium	Chronic (Medium / long term) risk to human health Pollution of sensitive controlled waters, ecosystems or species, Significant damage to crops, buildings or structures
	Mild	Easily preventable permanent health effects on humans. Pollution of non-sensitive controlled waters. Minor damage to buildings or structures.
	Minor	Easily preventable non-permanent health effects on humans, or no effects. Minor, low level and localised contamination of on-site soil. Easily repairable damage to buildings or structures.
Probability of risk	High Likelihood	Pollutant linkage may be present, and the risk is almost certain to occur , or there is evidence of harm already occurring.
	Likely	Pollutant linkage may be present, and it is probable that the risk will occur over the long term.
	Low Likelihood	Pollutant linkages may be present and there is a possibility of the risk occurring, although there is no certainty that it will do so.
	Unlikely	Pollutant linkage may be present but the circumstances under which harm would occur are improbable.

		Potential Severity			
		Severe	Medium	Mild	Minor
Probability of risk	High Likelihood	Very high risk	High risk	Moderate risk	Moderate / low risk
	Likely	High risk	Moderate risk	Moderate / low risk	Low risk
	Low Likelihood	Moderate risk	Moderate / low risk	Low risk	Very low risk
	Unlikely	Moderate / low risk	Low risk	very low risk	Very low risk

APPENDIX H - HUMAN HEALTH ASSESSMENT CRITERIA

HUMAN HEALTH ASSESSMENT CRITERIA

Context

Contaminated Land is defined under law through Part IIA of the Environmental Protection Act 1990, implemented through Section 57 of the Environment Act 1995 and associated guidance ("Part IIA"). These specify that a "suitable for use" approach is to be applied in the assessment of potentially contaminated land, implemented through a phased programme of site investigation and risk assessment appropriate to the site under consideration.

The assessment of potential risks posed by contaminated land is based upon the assessment of plausible contaminant source - pathway - receptor linkages ("pollutant linkages") for the current and/or proposed future use of the site. The process for the assessment of contaminated land adopted in this report is in line with guidance issued by the [Environment Agency Land contamination risk management \(LCRM\)](https://www.gov.uk/government/publications/land-contamination-risk-management) - GOV.UK (www.gov.uk)

Land contamination can harm:

- human health
- drinking water supplies, groundwater and surface water
- soils
- ecosystems including wildlife, animals and wetlands.
- property

It can also affect the current and future land use. Dealing with land contamination helps make the environment clean and safe. Through regeneration it can:

- enhance the health and wellbeing of all.
- add to the economic, ecological and amenity value of the area.

Use land contamination risk management (LCRM) to:

- identify and assess if there is an unacceptable risk.
- assess what remediation options are suitable to manage the risk.
- plan and carry out remediation.
- verify that remediation has worked.

You can use LCRM in a range of regulatory and management contexts. For example, voluntary remediation, planning, assessing liabilities or under the Part 2A contaminated land regime. The Environment Agency expects you to follow LCRM if you are managing the risks from land contamination.

We support the use of the National Quality Mark Scheme (NQMS). You can use it for any type of land contamination report.

Using the NQMS:

- will make sure all legislative requirements and necessary standards related to managing land contamination are met.
- can provide increased confidence by submitting reports of the quality we expect.
- can result in cost and time savings by 'getting it right first time'.

LCRM is made up of 4 guides.

1. LCRM: Before you start.
2. LCRM: Risk assessment.
3. LCRM: Options appraisal.
4. LCRM: Remediation and verification.

We use a staged risk based approach. There are 3 stages, and each stage is broken down into tiers or steps.

Stage 1: Risk assessment

You will use a tiered approach to risk assessment. The 3 tiers are:

1. Preliminary risk assessment.
2. Generic quantitative risk assessment.
3. Detailed quantitative risk assessment.

Stage 1 includes information for intrusive site investigations.

Stage 2: Options appraisal

There are 3 steps to follow.

1. Identify feasible remediation options.
2. Do a detailed evaluation of options.
3. Select the final remediation option.

Stage 3: Remediation and verification

There are 4 steps to follow.

1. Develop a remediation strategy.
2. Remediate.
3. Produce a verification report.
4. Do long term monitoring and maintenance, if required

You must always start with a preliminary risk assessment.

The risk assessment stage is an iterative process. You can do the 3 tiers in order or progress from a preliminary risk assessment to a detailed quantitative risk assessment. As part of a generic or detailed quantitative risk assessment you will need to collect detailed information about the site. This is usually through an intrusive site investigation.

Depending on the level of risk or regulatory requirements, you can proceed from a preliminary risk assessment to the options appraisal stage. If you proceed direct to the options appraisal stage, you still need to collect the detailed site investigation information required by the generic and detailed quantitative risk assessments. This is to confirm that your approach is viable and acceptable.

Following the risk assessment stage, if you conclude that the risks are acceptable, with agreement from the relevant regulator, you can end the process.

If there are unacceptable risks, then remediation or mitigation is required. Follow stages 2 and 3 in order.

In stage 2 options appraisal, you will:

- look at the most feasible options.
- produce a shortlist of options.
- use evaluation criteria to assess them.
- select which ones are the most suitable to take forward to stage 3.

In stage 3 remediation and verification, you will produce a remediation strategy, do the remediation and then produce a verification report.

You will decide at the options appraisal stage if long term monitoring and maintenance is the remediation option. You may need to do post-remediation monitoring for further verification.

The risk assessment and subsequent investigation, remediation and verification must address all potential sources of pollutants that may be present on the site (the "hazards"), all receptors that may be harmed by these (e.g., human health, controlled waters, ecological receptors) and the pathways by which the contamination may be transported from the contaminant source(s) to the receptor(s). This is defined within the conceptual model for the site, which represents the characteristics of the site in a form that shows the possible pollutant linkages. As further information becomes available (for example, through site investigation), so the conceptual model will be refined.

Remedial action can be specified at any phase within this assessment process to break the identified pollutant linkage in determining whether or not to undertake further assessment or to undertake remediation, the potential cost-savings arising from a more thorough assessment of the pollutant linkages and more tightly defined remedial strategy must be considered against the direct costs involved in the work and the time that this will take to execute and gain regulatory approval.

A different approach to the statistical appraisal of data is required depending on whether the assessment is being undertaken to assess land as Contaminated Land in accordance with the regulations or whether the assessment is to assess whether the site is suitable for new development in accordance with the Planning regime. The statistical approach to assessment is discussed further in CL:AIRE:2020 "Professional Guidance: Comparing Soil Contamination Data with a Critical Concentration".

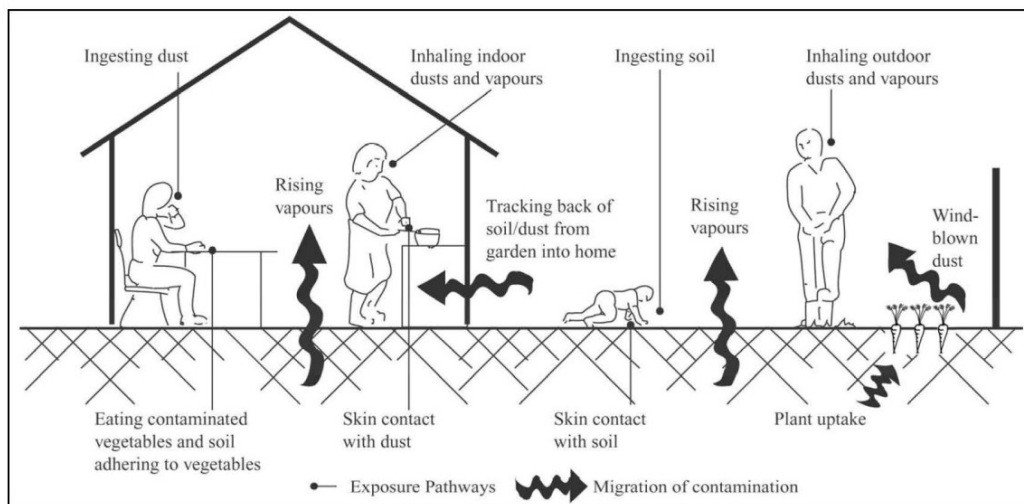
Some form of Detailed Quantitative Risk Assessment (DQRA) will be essential for those cases where appropriate GAC values cannot be established for the contaminant linkages under consideration.

Generic Assessment Criteria for Human Health Risk Assessment

In March 2002, the Department for Environment, Food and Rural Affairs (DEFRA) and the Environment Agency (EA) published the Contaminated Land Exposure Assessment (CLEA) Model and a series of related reports and guidance. These were designed to provide a scientifically based framework for the assessment of chronic risks to human health from contaminated land. The initial documents (CLR7 – 10) were withdrawn and replaced with revised guidance issued by the Environment Agency including:

- “Using Soil Guideline Values”; EA, 2009; [Land contamination: using soil guideline values \(SGVs\) - GOV.UK \(www.gov.uk\)](http://www.gov.uk/government/publications/using-soil-guideline-values)
- “Human Health toxicology assessment of contaminants in soil” EA, 2009; <https://www.gov.uk/government/publications/human-health-toxicological-assessment-of-contaminants-in-soil>
- “Update technical background to the CLEA model” 2009; <https://www.gov.uk/government/publications/updated-technical-background-to-the-clea-model>
- CLEA Software (Version 1.05) Handbook 2015; <https://www.gov.uk/government/publications/contaminated-land-exposure-assessment-clea-tool>
- Compilation of Data for priority Organic Contaminants for Derivation of Soil Guideline Values; Science Report SC050021/SR7, 2008; and,
- “Professional Guidance: Comparing Soil Contamination Data with a Critical Concentration”. CL:AIRE:2020 <https://www.claire.co.uk/component/phocadownload/category/9-other-cl-aire-documents?download=745:2020-stats-guidance>

The CLEA model and associated guidance was developed to calculate an estimated tolerable daily intake (TDI) of contaminants for site users given a set of ‘typical’ human health exposure pathways which are detailed in “SR3: Updated technical background to the CLEA model”



(Science Report SC050021/SR3, EA, 2009) and reproduced below.

Ingestion

- Outdoor soil;
- Indoor dust;
- Home grown produce;
- Soil attached to home grown produce.

Dermal Contact

- Outdoor soil;
- Indoor dust.

Inhalation

- Outdoor dust;
- Indoor dust;
- Outdoor vapour;
- Indoor vapour.

It should be noted that the CLEA model does not include an exhaustive list of potential exposure pathways, e.g. certain compounds can pass through plastic water pipes into drinking water supply.

The potential significance of each of the exposure pathways is dependent upon the type of land use and the nature of the contaminant being considered. The CLEA model considers principal 'default' land use scenarios and makes a series of assumptions with regards to building type (where applicable), identification of the critical human receptor group, exposure frequency and duration. The definitions of the principal land use types given in SR3 (EA, 2009) are:

Residential land use;

- A typical residential property consisting of a two-storey terraced house built on a ground-bearing slab of 0.15m thickness with a private garden consisting of lawn, flowerbeds, and a small fruit and vegetable patch. The occupants are assumed to be parents with young children, who make regular use of the garden. The critical receptor is a 0 – 6-year-old female.
- Active exposure pathways are ingestion of outdoor soil, ingestion of indoor dust, ingestion of home grown produce and soil adhering to home grown produce; direct dermal contact with outdoor soil and indoor dust; inhalation of outdoor dust and vapour and indoor dust and vapour.

Allotments

- A plot of open space commonly made available by the Local Authority to tenants to grow fruit and vegetables for their own consumption. There are usually several plots to a site and the overall site area may cover more than one hectare. The tenants are assumed to be the parents or grandparents and that young children make occasional accompanied visits to the plots. The critical receptor is a 0 – 6-year-old female and there is no building present on site.
- Active exposure pathways are ingestion of outdoor soil, ingestion of home grown produce and soil adhering to home grown produce; direct dermal contact with outdoor soil; inhalation of outdoor vapour.

Commercial and industrial land use.

- A typical commercial or light industrial property consisting of a three-story office building (pre-1970) with a ground bearing floor slab at which employees spend most time indoors and are involved in office based or related light physical work. The critical receptor is a working female adult aged 16 – 65 years.
- Active exposure pathway is ingestion of outdoor soil, ingestion of indoor dust; direct dermal contact with outdoor soil and indoor dust; inhalation of outdoor dust and vapour and inhalation of indoor dust and vapour.

Soil Guideline Values

Based on the assumption of each land use type, the EA and DEFRA developed and published Soil Guideline Value (SGV) using the CLEA model for a number of principal contaminants and 'default' end-use scenarios of residential, allotments and commercial/industrial use. The primary purpose of the SGVs is as trigger value for the tolerable daily intake (TDI), below which it can be assumed that the soil does not pose an unacceptable risk to the identified receptor. Where soils contamination is present above this level further assessment may be required. SGVs were developed for the following contaminants:

- Heavy metals and other inorganic compounds: arsenic, cadmium, chromium, cyanide, lead (now withdrawn), mercury, nickel and selenium.
- Benzene, ethylbenzene, toluene and xylenes.
- Phenol.
- Dioxins and dioxin-like polychlorinated biphenyls (PCBs)
- Polycyclic aromatic hydrocarbons (PAHs) – 11 substances

LQM/CIEH Generic Assessment Criteria for Human Health Risk Assessment

In addition, in 2009 CIEH through LQM and EIC published generic assessment criteria (GACs) for 82 substances including metals, petroleum hydrocarbons, PAHs and explosive substances for a variety of soil types and the three 'default' land uses – (residential, allotments and commercial end-uses) as described in SR3 (EA, 2009). These have been superseded as described below.

Category 4 Screening Values

In 2013 "SP1010: Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination" (CL:AIRE 2013) was issued which detailed findings of a research project undertaken by CL:AIRE to set out the framework by which potential Category 4 Screening Levels (pC4SL) may be derived for 6 contaminants of concern, Arsenic, Benzene, Benzo(a)pyrene, Cadmium, Chromium VI and Lead.

This was supplemented in 2014 by "SP1010: Development of Category 4 Screening Levels for the Assessment of Land Affected by Contamination – Policy Companion Document" (DEFRA, 2014). SP1010 proposed several updated toxicology information relating to contaminant behaviour updated assumptions relating to the modelling of human exposure to soil contaminants, derivation of separate C4SLs for residential with the consumption of home grown produce, residential without the consumption of home grown produce, and two new land uses: public open spaces near residential housing (POS resi) and public parks (POS park).

Public Open Space: Residential

- For public open space in close proximity to residential housing and the central green area around which houses are located, as on many housing estates from the 1930s to 1970s. It is also applicable for smaller areas commonly incorporated in newer developments as informal grassed areas or more formal landscaped areas with a mixture of open space and covered soil with planting. It is considered to be a generally grassed area up to 0.5ha with up to 50% bare soil. The land use is an important resource

for children and the area is near the homes. The critical receptor is a female child age >3 - <9 years old (CLEA age class 4 – 9) as younger children are unlikely to play outdoors unsupervised.

- Active exposure pathways are ingestion of outdoor soil; ingestion of indoor dust; direct dermal contact with outdoor soil and indoor soil derived dust; inhalation of outdoor and indoor dust and inhalation of outdoor vapour.

Public Open Space: Park

- A public park is defined as an area of open space provided for recreational use and usually owned and maintained by the Local Authority. It is anticipated the park could be used for a wide range of activities, including the following:
 - Family visits and picnics;
 - Children's play area;
 - Sporting activities such as football on an informal basis (i.e. not a dedicated sports pitch); and
 - Dog walking.
- The park is modelled as an area >0.5 ha of predominantly grasses open space with no more than 25% of exposed soil.
- The critical receptor is a female child with CLEA age classes 1 – 6.
- Active exposure pathways are: ingestion of outdoor soil; direct dermal contact with outdoor soil; inhalation of outdoor dust and inhalation of outdoor vapour.

Furthermore, the C4SLs are based on a different toxicological benchmark, the 'low level of toxicological concern' (LLTC). This difference in approach was adopted because the C4SLs were primarily intended for use under Part 2A of the EPA 1990 to quickly screen out Category 4 sites where there is "*no risk or that the level of risk posed is low*". SGVs and LQM GACs are based on the more conservative 'minimal or tolerable level of risk' as defined in SR2 (EA, 2009) and were derived for assessment of contamination for the Planning process.

LQM/CIEH Suitable 4 Use Levels (S4ULs)

The publication of the C4SLs resulted in considerable and inconclusive debate about the applicability of the lower level of protection of the C4SL, which are underlain by the LLTC, outside of the Part 2A context for which they were derived. In 2014 LQM/CIEH presented a Suitable 4 Use Levels (S4ULs), which incorporate the updated assumption exposure derived for the production of the C4SLs but within the context of deriving screening criteria above which further assessment of the risks or remedial action may be needed. The S4ULs replace the 82 substances, species and fractions and congeners contained in the previous LQM/CIEH GACs issued in 2009. Additionally, following changes and new land uses proposed in the C4SL research project, S4ULs have also been derived for the majority of substances for which the EA derived SGVs in 2009 with the exception of lead (see below).

Lead

The C4SL for lead provides a technically robust and conservative assessment tool using significantly updated toxicological modelling than the withdrawn SGV and derived in line with current science of lead toxicology.

EIC/AGS/CL:AIRE Soil Generic Assessment Criteria (2010)

In some instances, EIC/AGS/CL:AIRE GACs for certain VOC / SVOC potential contaminants of concern have been used *in lieu* of available LQM / CIEH S4UL values.

Parameter	Residential with homegrown produce			Residential without homegrown produce			Allotment			Commercial / Industrial			Public Open Space near Residential			Public Open Space - Park			Source
	(mg/kg, unless otherwise stated)			(mg/kg, unless otherwise stated)			(mg/kg, unless otherwise stated)			(mg/kg, unless otherwise stated)			(mg/kg, unless otherwise stated)			(mg/kg, unless otherwise stated)			
SOM	1%	2.50%	6%	1%	2.50%	6%	1%	2.50%	6%	1%	2.50%	6%	1%	2.50%	6%	1%	2.50%	6%	
Metals/metalloids																			
Arsenic	37			40			43			640			79			170			LQM (2014)
Beryllium	1.7			1.7			35			12			2.2			63			LQM (2014)
Boron	290			11000			45			240000			21000			46000			LQM (2014)
Cadmium	11			85			1.9			190			120			532			LQM (2014)
Chromium III	910			910			18000			8600			1500			33000			LQM (2014)
Chromium VI	6			6			1.8			33			7.7			220			LQM (2014)
Copper	2400			7100			520			68000			12000			44000			LQM (2014)
Lead	200			310			80			2330			630			1300			C4SL
Mercury (elemental)	1.2			1.2			21			58 (25.8)			16			30 (25.8)			LQM (2014)
Mercury (Inorganic)	40			56			19			1100			120			240			LQM (2014)
Methylmercury	11			15			6			320			40			68			LQM (2014)
Nickel	130			180			53			980			230			800			LQM (2014)
Selenium	250			430			88			12000			1100			1800			LQM (2014)
Vanadium	410			1200			91			9000			2000			5000			LQM (2014)

Parameter	Residential with homegrown produce			Residential without homegrown produce			Allotment			Commercial / Industrial			Public Open Space near Residential			Public Open Space - Park			Source
	(mg/kg, unless otherwise stated)			(mg/kg, unless otherwise stated)			(mg/kg, unless otherwise stated)			(mg/kg, unless otherwise stated)			(mg/kg, unless otherwise stated)			(mg/kg, unless otherwise stated)			
SOM	1%	2.50%	6%	1%	2.50%	6%	1%	2.50%	6%	1%	2.50%	6%	1%	2.50%	6%	1%	2.50%	6%	
Zinc	3700			40000			620			730000			81000			170000			LQM (2014)
Other																			
Total Sulphate	2,400			2,400			2,400			2,400			2,400			2,400			BRE (2005)
Water Soluble Sulphate (g/l)	0.5			0.5			0.5			0.5			0.5			0.5			BRE (2005)
PAHs																			
Acenaphthene	210	510	1100	3000 (57)	4700(141)	6000 (336)	34	85	200	84000 (57)	97000 (141)	100000	15000	15000	15000	29000	30000	30000	LQM (2014)
Acenaphthylene	170	420	920	2900 (86.1)	4600 (212)	6000 (506)	28	69	160	8300 (86.1)	97000 (212)	100000	15000	15000	15000	29000	30000	30000	LQM (2014)
Anthracene	2400	5400	11000	31000 (1.17)	35000	37000	380	950	2200	520000	540000	540000	74000	74000	74000	150000	150000	150000	LQM (2014)
Benzo(a)anthracene	7.2	11	13	11	14	15	2.9	6.5	13	170	170	180	29	29	29	49	56	62	LQM (2014)
Benzo(a)pyrene	2.2	2.7	3	3.2	3.2	3.2	0.97	2	3.5	35	35	36	5.7	5.7	5.7	11	12	13	LQM (2014)
Benzo(b)fluoranthene	2.6	3.3	3.7	3.9	4	4	0.99	2.1	3.9	44	44	45	7.1	7.1	7.1	13	15	16	LQM (2014)
Benzo(g,h,i)perylene	320	340	350	360	360	360	290	470	640	3900	4000	4000	640	640	640	1400	1500	1600	LQM (2014)
Benzo(k)fluoranthene	77	93	100	110	110	110	37	75	130	1200	1200	1200	190	190	190	370	410	440	LQM (2014)
Chrysene	15	22	27	30	31	32	4.1	9.4	19	350	350	350	57	57	57	93	110	120	LQM (2014)

Parameter	Residential with homegrown produce			Residential without homegrown produce			Allotment			Commercial / Industrial			Public Open Space near Residential			Public Open Space - Park			Source
	(mg/kg, unless otherwise stated)			(mg/kg, unless otherwise stated)			(mg/kg, unless otherwise stated)			(mg/kg, unless otherwise stated)			(mg/kg, unless otherwise stated)			(mg/kg, unless otherwise stated)			
SOM	1%	2.50%	6%	1%	2.50%	6%	1%	2.50%	6%	1%	2.50%	6%	1%	2.50%	6%	1%	2.50%	6%	
Dibenz(a,h)anthracene	0.24	0.28	0.3	0.31	0.32	0.32	0.14	0.27	0.61	3.5	3.6	3.6	0.57	0.57	0.58	1.1	1.3	1.4	LQM (2014)
Fluoranthene	280	560	890	1500	1600	1600	52	130	290	23000	23000	23000	3100	3100	3100	63	6300	6400	LQM (2014)
Fluorene	170	400	860	2800 (30.9)	3800 (76.5)	4500 (183)	27	67	160	63000 (30.9)	68000	71000	9900	9900	9900	20000	20000	20000	LQM (2014)
Indeno(1,2,3-cd)pyrene	27	36	41	45	46	46	9.5	21	39	500	510	510	82	82	82	150	170	180	LQM (2014)
Naphthalene	2.3	5.6	13	2.3	5.6	13	4.1	10	24	190 (76.4)	460 (183)	1100 (432)	4900	4900	4900	1200 (76.4)	1900 (183)	3000	LQM (2014)
Phenanthrene	95	220	440	1300 (36)	1500	1500	15	38	90	22000	22000	23000	3100	3100	3100	6200	6200	6300	LQM (2014)
Pyrene	620	1200	2000	3700	3800	3800	110	270	620	54000	54000	54000	7400	7400	7400	15000	15000	15000	LQM (2014)
Coal Tar (BaP as surrogate marker)	0.79	0.98	1.1	1.2	1.2	1.2	0.32	0.67	1.2	15	15	15	2.2	2.2	2.2	4.4	4.7	4.8	LQM (2014)
BTEX and TPH																			
Benzene	0.087	0.17	0.37	0.38	0.7	1.4	0.017	0.034	0.075	27	47	90	72	72	73	90	100	110	LQM (2014)
Toluene	130	290	660	880 vap (869)	1900	3900	22	51	120	56000 vap (869)	110000 vap (1920)	180000 vap (4360)	56000	56000	56000	87000 vap (869)	95000 vap (1920)	100000 vap (4360)	LQM (2014)
Ethylbenzene	47	110	260	83	190	440	16	39	91	5700 vap (518)	13000 vap (1220)	27000 vap (2840)	24000	24000	25000	17000 vap (518)	22000 vap (1220)	27000 vap (2840)	LQM (2014)
Xylene - o	60	140	330	88	210	480	28	67	160	6600 (478)	15000 (1120)	33000 (2620)	41000	42000	43000	17000 (478)	24000 (1120)	33000 (2620)	LQM (2014)

Parameter	Residential with homegrown produce			Residential without homegrown produce			Allotment			Commercial / Industrial			Public Open Space near Residential			Public Open Space - Park			Source
	(mg/kg, unless otherwise stated)			(mg/kg, unless otherwise stated)			(mg/kg, unless otherwise stated)			(mg/kg, unless otherwise stated)			(mg/kg, unless otherwise stated)			(mg/kg, unless otherwise stated)			
SOM	1%	2.50%	6%	1%	2.50%	6%	1%	2.50%	6%	1%	2.50%	6%	1%	2.50%	6%	1%	2.50%	6%	
Xylene - m	59	140	320	82	190	450	31	74	170	6200 (625)	14000 (1470)	31000 (3460)	41000	42000	43000	17000 (625)	24000 (1470)	32000 (3460)	LQM (2014)
Xylene - p	56	130	310	79	180	430	29	69	160	5900 (576)	14000 (1350)	30000 (3170)	41000	42000	43000	17000 (576)	23000 (1350)	31000 (3170)	LQM (2014)
Aliphatic EC 5-6	42	78	160	42	78	160	730	1700	3900	3200 (304)	5900 (558)	12000 (1150)	570000 (304)	590000	60000 0	95000 (304)	130000 (558)	180000 (1150)	LQM (2014)
Aliphatic EC >6-8	100	230	530	100	230	530	2300	5600	13000	7800 (144)	17000 (322)	40000 (736)	600000	610000	62000 0	150000 (144)	220000 (322)	320000 (736)	LQM (2014)
Aliphatic EC >8-10	27	65	150	27	65	150	320	770	1700	2000 (78)	4800 (190)	11000 (451)	13000	13000	13000	14000 (78)	18000 (190)	21000 (451)	LQM (2014)
Aliphatic EC >10-12	130 (48)	330 (118)	760 (283)	130 (48)	330 (118)	760 (283)	2200	4400	7300	9700 (48)	23000 (118)	47000 (283)	13000	13000	13000	21000 (48)	23000 (118)	24000(283)	LQM (2014)
Aliphatic EC >12-16	1100 (24)	2400 (59)	4300 (142)	1100 (24)	2400 (59)	4300 (142)	11000	13000	13000	59000 (24)	82000 (59)	90000 (142)	13000	13000	13000	25000 (24)	25000 (59)	26000 (142)	LQM (2014)
Aliphatic EC >16-35	65000 (8.48)	92000 (21)	11000 0	65000 (8.48)	92000 (21)	110000	26000 0	270000	27000 0	160000 0	1700000	180000 0	250000	250000	25000 0	450000	480000	490000	LQM (2014)
Aliphatic EC >35-44	65000 (8.48)	92000 (21)	11000 0	65000 (8.48)	92000 (21)	110000	26000 0	270000	27000 0	160000 0	1700000	180000 0	250000	250000	25000 0	450000	480000	490000	LQM (2014)
Aromatic EC 5-7	70	140	300	370	690	1400	13	27	57	26000 (1220)	46000 (2260)	86000 (4710)	56000	56000	56000	76000 (1220)	84000 (2260)	92000 (4710)	LQM (2014)
Aromatic EC >7-8	130	290	660	860	1800	3900	22	51	120	56000 (869)	110000 (1920)	180000 (4360)	56000	56000	56000	87000 (869)	95000 (1920)	100000 (4360)	LQM (2014)
Aromatic EC >8-10	34	83	190	47	110	270	8.6	21	51	3500 (613)	8100 (1500)	17000 (3580)	5000	5000	5000	7200 (613)	8500 (1500)	9300 (3580)	LQM (2014)
Aromatic EC >10-12	74	180	380	250	590	1200	13	31	74	16000 (364)	28000 (899)	34000 (2150)	5000	5000	5000	9200 (364)	9700 (899)	10000	LQM (2014)