CCG-C-22-13352

GROUND INVESTIGATION

FOR FERALCO, WIDNES

SEPTEMBER 2022

Prepared by:

CC GEOTECHNICAL LIMITED

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For and behalf of CC GEOTECHNICAL LTD	
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1.0 INTRODUCTION

CC GEOTECHNICAL LIMITED (CCG) was commissioned by ***Addison Project PLC*** to undertake an intrusive ground investigation on land within the curtilage of the 'Feralco' site at Ditton Road, Widnes, WA8 0PH.

The purpose of the ground investigation was to provide geotechnical information relevant to the selection and design of foundations for a new light industrial building. Plans of the proposed developments are provided in Appendix A.

It must be borne in mind that the data and opinions contained in this report should be read in conjunction with the Notes on Limitations, given in Appendix H.

An interim report was previously submitted under reference; CCG-C-22-13093, addressing investigation works undertaken up to that point. Additional investigation work has now been carried out and this report collates the findings of all investigation works carried out across the entire site.

2.0 SITE LOCATION

The 'Feralco' site is located in a commercial / industrial context at Ditton Road, Widnes, WA8 0PH. It is situated to the north of a railway line, south of open grassed land across from Ditton Road and is bound to the east and west by industrial units, as shown on ***CCG*** Site Location Map No. CCG-C-22-13093-01 contained in Appendix A.

The Ordnance Survey coordinates for the approximate site centre are 349987E, 384805N.

The area of interest in which the investigation was undertaken is delineated on Drawing CCG-C-22-13093-02. It comprises an industrial yard area within which is a large spoil heap as well as an additional section of wooded land to the south of the yard.

3.0 DOCUMENTED GEOLOGY

The natural geology prevailing at the site was researched by reference to BGS records. These indicate that the drift deposits underlying the site comprise of tidal flat deposits consisting of clay, silt and sand. The solid geology is documented as the Wilmslow Sandstone Formation.

4.0 FIELDWORK

The fieldwork was carried out in accordance with BS10175: 2013 and BS5930: 2015, insofar as they related to the scope of the investigation, the scope of which was instructed by the engineer, ***Addison Project PLC***.

The initial investigation on the existing yard section of the site comprised the sinking of 7nr boreholes by Dynamic Sampling methods to 3mbgl for sample recovery, with Dynamic Probing then advanced from the base of each borehole to a depth of 15mbgl or `refusal`, whichever is the lesser. 2nr further boreholes were carried out via Dynamic Sampling methods (BH08 + BH09) on the boundary between the yard and wooded section of site. These were sunk to 5mbgl.

Additional investigation was also undertaken on the wooded land to the south of the existing yard. The works in this section comprised of 2nr boreholes sunk by Dynamic Sampling methods to 5.0mbgl, in addition to 2nr DCP tests.

A layout of the investigation as instructed by ***Addison Project PLC*** is shown on ***CCG*** Drawing No. 13352/3 in Appendix A.

Borehole logs annotated with sampling details, and SPT `N` values are presented in Appendix B alongside their corresponding dynamic probing data sheets were applicable. Dynamic Cone Penetrometer test result sheets are provided in Appendix C.

5.0 OBSERVED STRATIGRAPHY

The stratigraphy observed within all the boreholes was consistent, with made ground deposits extending to around 3mbgl overlying natural clay deposits.

At BH01-BH04 each of which commenced at existing yard pavement level, the recovery comprised predominantly of sand and gravel with inclusions of brick, limestone, concrete, sandstone, cinders, coal traces etc. The exception to this generalisation as at BH02 where the depth 1.2-3.0mbgl comprised of a clay matrix containing the same range of secondary constituents as observed in BH01/BH03/BH04. These deposits exhibit very low strength properties with SPT`N` values in the range 1-4 throughout the 3m depth of borehole sinking. Dynamic probing indicates a rapid rise in

density below around 5.5mbgl with equivalent SPT values >50 at around 7.5mbgl

BH05, BH06 and B07 were sunk through a large spoil heap occupying the SE quadrant of the investigation area. The stockpile was shown to comprise of very loose varying to medium dense deposits of made ground of gravel of brick, concrete, coal, sandstone, cinders etc in a matrix of sand. Dynamic probing showed the ground beneath the spoil heap to continue to be extremely loose with zones of no resistance extending to around 6.5m below commencement level, at which depth a consistency of density is obtained steadily rising to an equivalent SPT`N` value of >50 at around 9.5m below top of spoil heap.

During the additional phase of the ground works, BH08 & BH09 were sunk on the boundary between the existing industrial yard and the wooded area to the south. Within this wooded area, BH10 & BH11 were sunk. The subsoil succession in both these areas was seen to again comprise of extensive made ground deposits of sandy gravel with inclusions of brick, cinders, mudstone and sandstone extending to depths of between 1.7-3.0mbgl. Underlying the made ground deposits was a generally stiff sandy gravelly clay deposit proven to 5.0mbgl.

6.0 GROUNDWATER

Groundwater was not encountered within the initial borehole sinking (BH01-BH07) likely due to the shallower termination depths of 3mbgl of these boreholes. Groundwater was however observed to stand at between 3.0-4.0mbgl within all but 1nr of the additional boreholes from the southern section of the site and the border with the existing yard.

7.0 LABORATORY TESTING & ASSESSMENT OF DATA

The following analyses were undertaken at a UKAS / MCERTS accredited laboratory:

- Determination of Metals, non-metals, PAH's, TPHCWG's, asbestos screen etc – 12nr tests
- Determination of waste classification – 6nr tests

The soil analysis results are contained in Appendix D & E. When assessed against criteria applicable to the Commercial / Industrial land use scenario, all results, with the exception of those for BH08 & BH09 from the additional boreholes on the southern boundary of the existing yard, were below their respective threshold values. This indicates that no risk is posed to operatives in short term transient contact with the site soils in areas other than the southwest corner of the existing yard. The 2nr exceedances were both for Arsenic and are located within a section of the site consisting of spoil that is to be removed.

All soil analyses were subjected to preliminary waste classification using the Hazwaste program. This assessment from the first phase of the ground investigation within the existing industrial yard indicated 2nr determinations classifying as Hazardous waste – one on each of BH01 and BH04. The Hazardous classifications resulted from slightly elevated Zinc concentrations. These may not be significant unless excavations are undertaken at these locations. They do not indicate a need for remedial action to be undertaken.

All samples from the spoil heap (BH05-BH07) within this section of the site classified as Non-Hazardous. Waste Acceptance Criteria determinations were also undertaken on 2nr samples of made ground recovered from within the onsite spoil heap. As can be seen in Appendix F, both of these samples satisfied the criteria for disposal at an Inert landfill.

The assessment from the second phase of the ground investigation indicated 3 of the 4 samples classified as Hazardous waste – one on each of BH08 and BH09 on the boundary and also one at BH10 from the wooded area. The Hazardous classifications resulted from elevated Arsenic concentrations.

Further Waste Acceptance Criteria determinations were also undertaken on samples from each of the 4nr new positions (BH08-BH11) recovered. As can be seen in Appendix F, samples classified as hazardous waste can be further classified as stable non-reactive and disposed of as such.

Geotechnical tests were also conducted on natural material samples from the boreholes carried out during the second phase of the investigation as listed below:

- Determination of moisture content in accordance with BS 1377-2: 1990 – 6nr tests
- Determination of liquid & plastic limits in accordance with BS 1377-2: 1990 – 6nr tests

The results are contained in Appendix G.

8.0 GEOTECHNICAL ASSESSMENT

8.1 Foundations & Ground Slabs

Taking into account the above observations on ground conditions, and given the potential for high total and/or differential settlement under loading, traditional shallow spread foundations are not recommended for any form of building

Two foundation options may be considered. Firstly, pads, reinforced strips or reinforced ground beam foundations may be considered bearing on ground improved by the installation of vibro displacement stone columns. Subject to stone column spacing Allowable Bearing Pressures of up to 100kN/m^2 may be achieved. Should this alternative be considered then specialist contractors should be consulted to confirm that the technique is suitable for the observed ground conditions and that it is environmentally acceptable taking account of the vibrational effects of the method. A grid of vibro columns may be installed under floor slabs.

As an alternative a piled foundation solution may be considered with either steel cased bottom driven cast *in-situ* or top driven precast concrete piles providing appropriate piling solutions, with piles being driven to refusal at around 10mbgl.

For the purposes of preliminary design, the structural carrying capacity of bottom driven piles may be taken as:

Table 1: Pile Carrying Capacity – Steel Cased Bottom Driven

Pile Diameter mm	Carrying Capacity kN
150	130
220	250

Table 2: Pile Carrying Capacity – Precast Concrete Driven

Pile Section mm x mm	Carrying Capacity kN
200 x 200	350
250 x 250	500

A piling layout and calculated pile loadings should be prepared and piling contractors must be required to provide dynamic installation set calculations for the actual loadings calculated to be imposed on each pile, and to provide pile installation records.

8.2 Excavations

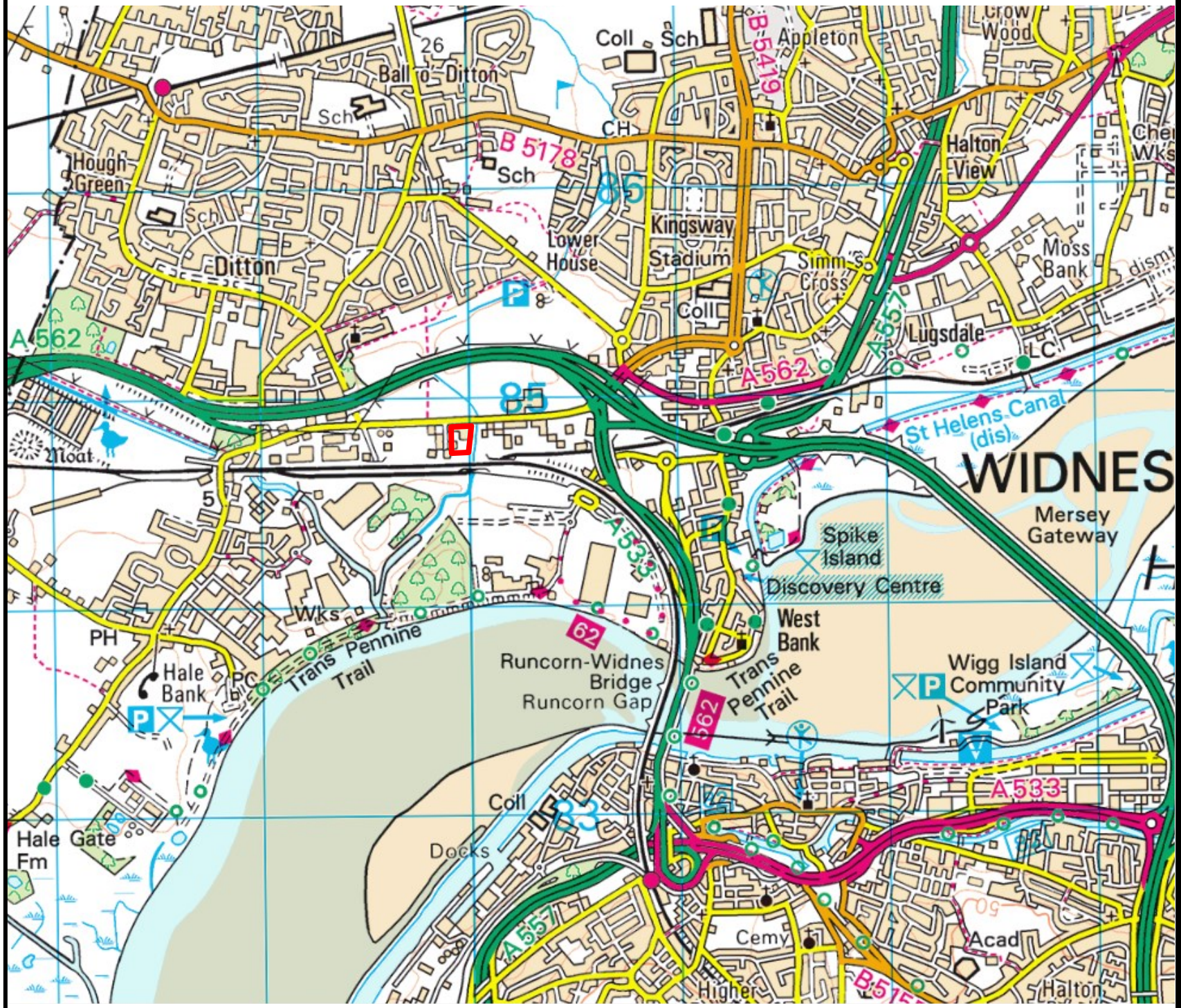
Excavations may be undertaken in the observed ground conditions by light hydraulic excavators. Excavations in excess of 1.2mbgl will require side support.

8.3 Groundwater Management

Groundwater was shown to stand at around 3.0mbgl within the boreholes, prudent contractors would allow for some pumping to develop and maintain dry working conditions, particularly in periods of heavy rainfall.

APPENDIX A

DRAWINGS



Legend

Site Location

CC GEOTECHNICAL LIMITED
UNIT 1 DELTIC WAY
KNOWSLEY INDUSTRIAL ESTATE
LIVERPOOL
L33 7BA
0151 545 2750

Client:
Addison Projects

Project:
Land at Feralco, Widnes

Title:
Site Location Plan

Scale:	Issue:
NTS	1
Drawn by:	Date
SP	June 2022
Project No.	Drawing No.
CCG-C-22-13093	13093-1

CC GEOTECHNICAL LIMITED

Legend

Site Location

Area of works

CC GEOTECHNICAL LIMITED
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0151 545 2750

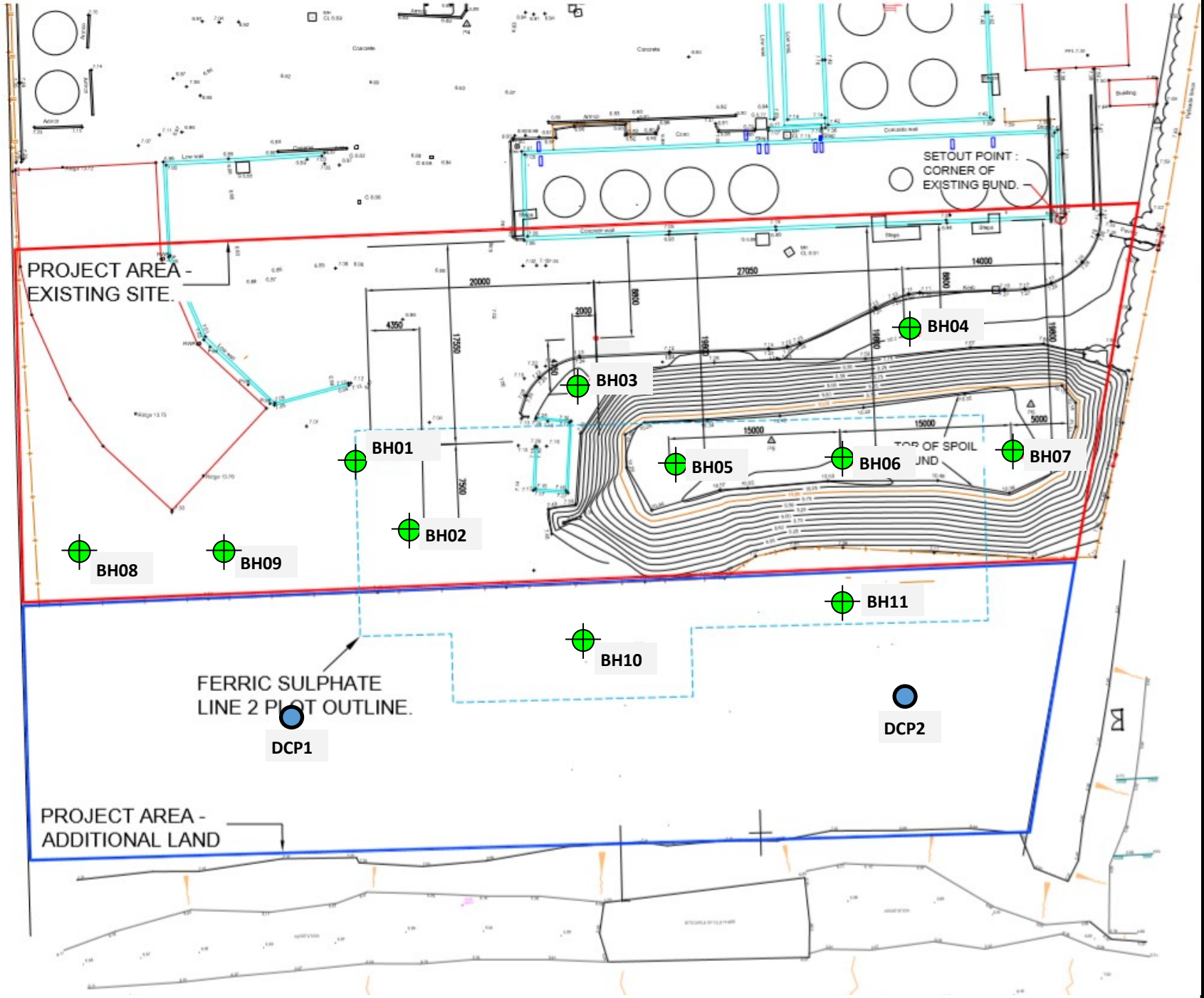
Client:
Addison Projects

Project:
Land at Feralco, Widnes

Title:
Site Aerial Photography Plan

Scale:	Issue:
NTS	1
Drawn by:	Date
LT	June 2022
Project No.	Drawing No.
CCG-C-22-13093	13093-2

CC GEOTECHNICAL LIMITED



Notes:

Window Sample Borehole

Dynamic Cone Penetrometer Test

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Client:
Addison Projects

Project:
Feralco, Widnes

Title:
Site Investigation Location Plan

Scale:	Issue:
NTS	1
Drawn by:	Date:
LT	27/09/2022
Project No.	Drawing No.
CCG-C-22-13352	13352/3

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APPENDIX B

BOREHOLE LOGSHEETS & DYNAMIC PROBING DATA

	Contract Name: Feralco, Widnes		Client: Addison Project PLC		Borehole ID: **BH01**
	Contract Number: CCG-C-22-13093	Date Started: 08/06/2022	Logged By: LT	Checked By: CB	Status: FINAL
Dynamic Sampling Borehole Log	Easting:	Northing:	Ground Level:	Plant Used: DANDO TERRIER RIG	Rig Crew: LN
					Sheet 1 of 1
					Scale: 1:25
Weather:		Termination: AS SCHEDULED		SPT Hammer: N/R, Energy Ratio: N/R	

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
				0.20		TARMAC		
				0.40		SUB-BASE - GRAVEL *Limited Recovery*		
		SPT(S)N=1 (1,0/0,0,0,1)		(2.60)		Very loose brown very clayey very sandy GRAVEL. Gravel is angular to sub-rounded limestone and brick (MADE GROUND) *Limited Recovery*		
		SPT(S)N=1 (0,1/1,0,0,0)		3.00		End of Borehole at 3.00m		

Start & End of Shift Observations					Borehole Diameter		Casing Diameter	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)

Chiselling				Installation			
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)

Remarks:

BOREHOLE ADVANCED FROM COREHOLE

BOREHOLE ADVANCED BY DYNAMIC PROBING

Water Strikes

Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
1.00			0		Seepage

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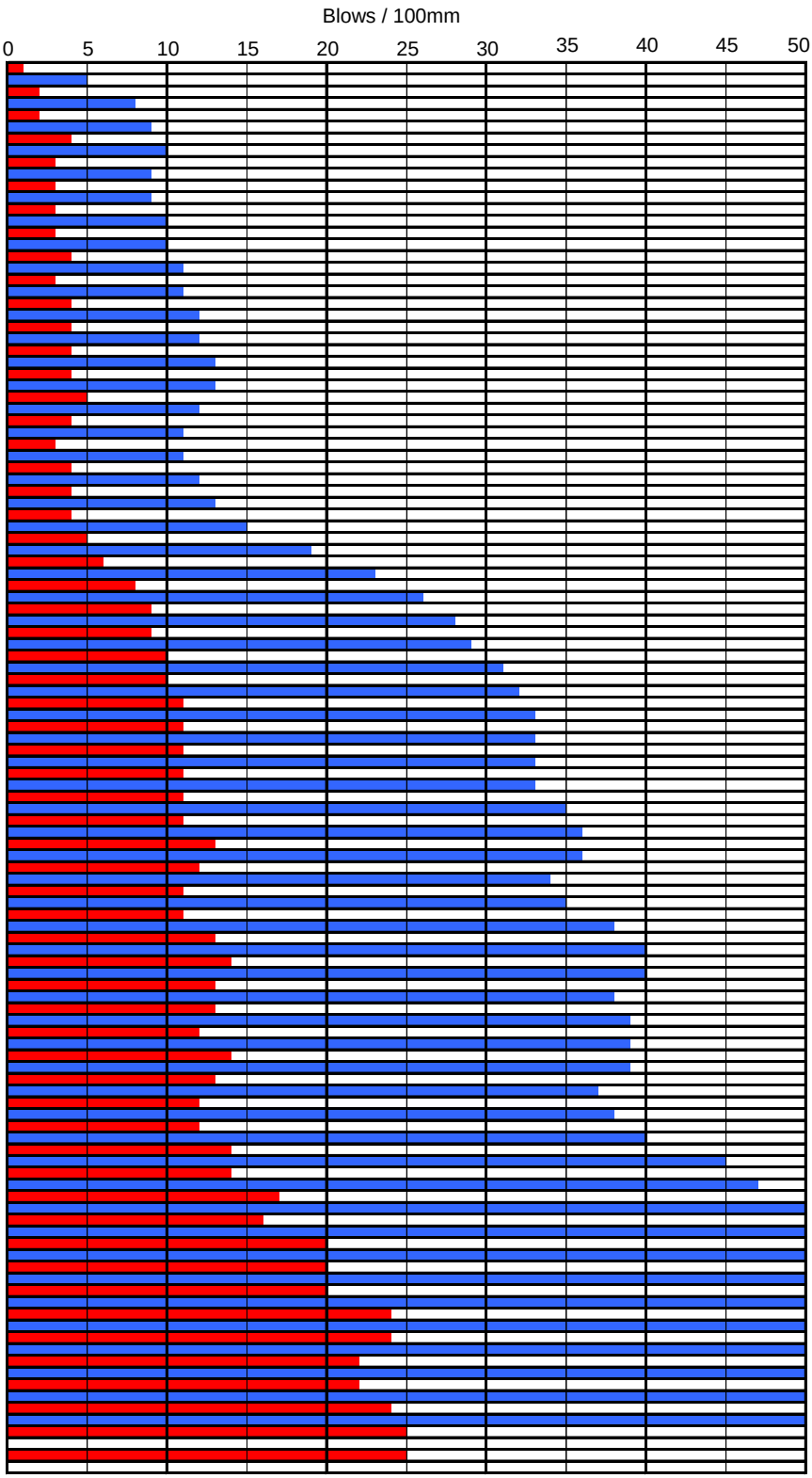
DYNAMIC PROBE TEST RESULTS SHEET

SITE:	Feralco, Widnes
CLIENT:	Addison Projects
PROBE NUMBER:	DP1
DATE:	14-Jun-22

DPSH IN ACCORDANCE WITH BS 1377: PART 9: CLAUSE 3.2
CONE BURIED:
PROBE HOLE BACKFILLED:
REMARKS:

Depth (m)	Blows / 100mm	Equivalent SPT 'N' value
3.1	1	5
3.2	2	8
3.3	2	9
3.4	4	10
3.5	3	9
3.6	3	9
3.7	3	10
3.8	3	10
3.9	4	11
4.0	3	11
4.1	4	12
4.2	4	12
4.3	4	13
4.4	4	13
4.5	5	12
4.6	4	11
4.7	3	11
4.8	4	12
4.9	4	13
5.0	4	15
5.1	5	19
5.2	6	23
5.3	8	26
5.4	9	28
5.5	9	29
5.6	10	31
5.7	10	32
5.8	11	33
5.9	11	33
6.0	11	33
6.1	11	33
6.2	11	35
6.3	11	36
6.4	13	36
6.5	12	34
6.6	11	35
6.7	11	38
6.8	13	40
6.9	14	40
7.0	13	38
7.1	13	39
7.2	12	39
7.3	14	39
7.4	13	37
7.5	12	38
7.6	12	40
7.7	14	45
7.8	14	47
7.9	17	53
8.0	16	56
8.1	20	60
8.2	20	64
8.3	20	68
8.4	24	70
8.5	24	68
8.6	22	68
8.7	22	71
8.8	24	74
8.9	25	
9.0	25	



Dynamic probe value (Blows/100mm) Equivalent SPT 'N' value

Contract Name: Feralco, Widnes		Client: Addison Project PLC		Borehole ID: **BH02**
Contract Number: CCG-C-22-13093	Date Started: 08/06/2022	Logged By: LT	Checked By: CB	Status: FINAL — Sheet 1 of 1
Dynamic Sampling Borehole Log	Easting:	Northing:	Ground Level:	Plant Used: DANDO TERRIER RIG — Rig Crew: LN — Scale: 1:25
Weather:	Termination: AS SCHEDULED		SPT Hammer: N/R, Energy Ratio: N/R	

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
				0.13		TARMAC		
				0.30		COBBLES		
				(0.90)		Brown very gravelly silty fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded brick, concrete, limestone and sandstone (MADE GROUND) *Limited Recovery*		
		SPT(S)N=5 (1,1/1,1,1,2) HV 1.40m, 50/50kPa HVP=50 HV 1.80m, 40/40kPa HVP=40 SPT(S)N=5 (1,1/1,2,1,1)		1.20		Firm greyish brown slightly gravelly slightly sandy silty CLAY. Gravel is fine to medium sub-rounded coal, mudstone and cinders (MADE GROUND) *Olfactory evidence of hydrocarbons* *Limited Recovery*		
				(1.80)				
				3.00		End of Borehole at 3.00m		

Start & End of Shift Observations					Borehole Diameter		Casing Diameter	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)

Chiselling				Installation			
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)

Remarks:
BOREHOLE ADVANCED FROM COREHOLE
BOREHOLE ADVANCED BY DYNAMIC PROBING

Water Strikes

Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks

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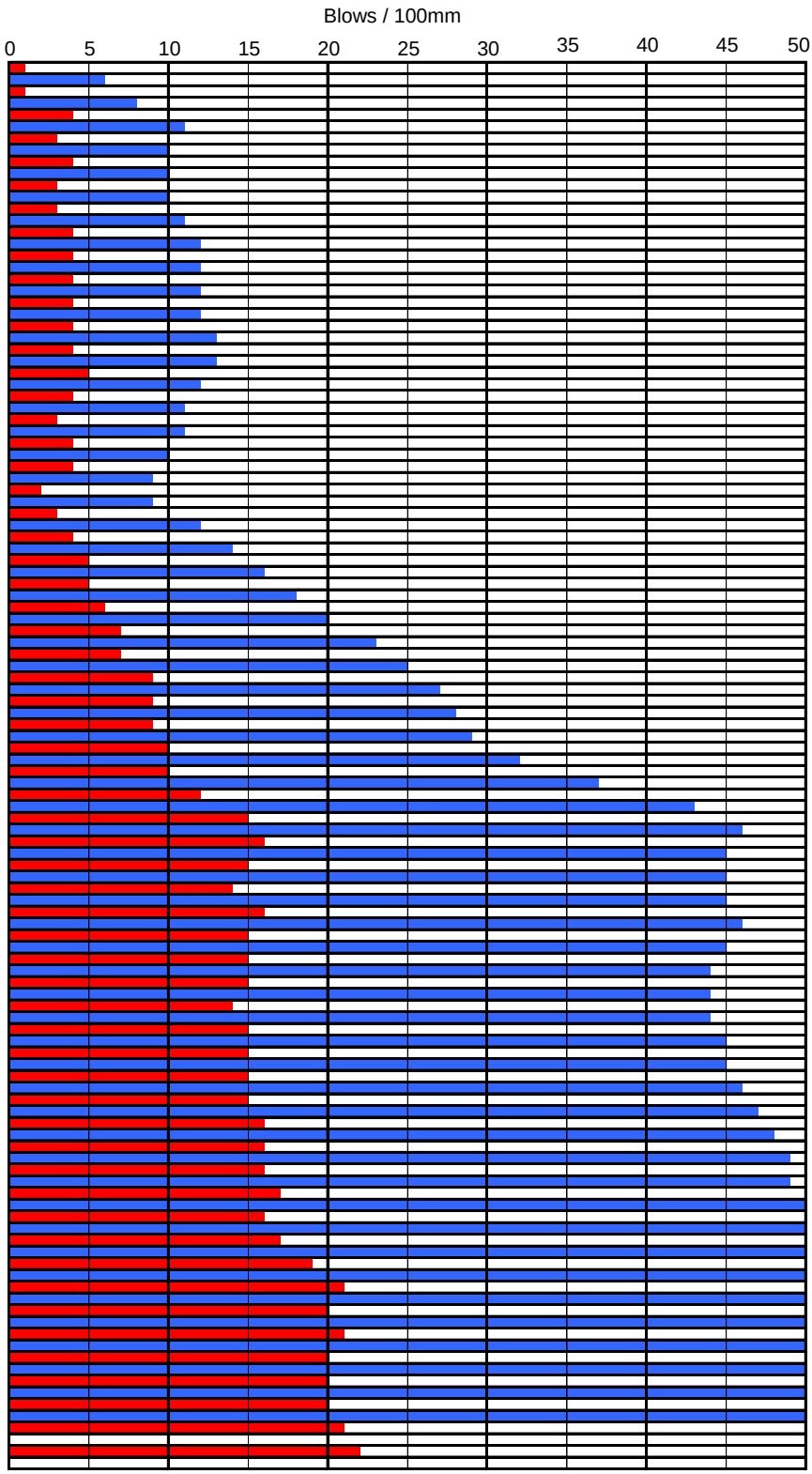
DYNAMIC PROBE TEST RESULTS SHEET

SITE:	Feralco, Widnes
CLIENT:	Addison Projects
PROBE NUMBER:	DP2
DATE:	14-Jun-22

DPSH IN ACCORDANCE WITH BS 1377: PART 9: CLAUSE 3.2
CONE BURIED:
PROBE HOLE BACKFILLED:
REMARKS:

Depth (m)	Blows / 100mm	Equivalent SPT 'N' value
3.1	1	6
3.2	1	8
3.3	4	11
3.4	3	10
3.5	4	10
3.6	3	10
3.7	3	11
3.8	4	12
3.9	4	12
4.0	4	12
4.1	4	12
4.2	4	13
4.3	4	13
4.4	5	12
4.5	4	11
4.6	3	11
4.7	4	10
4.8	4	9
4.9	2	9
5.0	3	12
5.1	4	14
5.2	5	16
5.3	5	18
5.4	6	20
5.5	7	23
5.6	7	25
5.7	9	27
5.8	9	28
5.9	9	29
6.0	10	32
6.1	10	37
6.2	12	43
6.3	15	46
6.4	16	45
6.5	15	45
6.6	14	45
6.7	16	46
6.8	15	45
6.9	15	44
7.0	15	44
7.1	14	44
7.2	15	45
7.3	15	45
7.4	15	46
7.5	15	47
7.6	16	48
7.7	16	49
7.8	16	49
7.9	17	50
8.0	16	52
8.1	17	57
8.2	19	60
8.3	21	62
8.4	20	61
8.5	21	61
8.6	20	60
8.7	20	61
8.8	20	63
8.9	21	
9.0	22	



Dynamic probe value (Blows/100mm) Equivalent SPT 'N' value

Contract Name: Feralco, Widnes			Client: Addison Project PLC	Borehole ID: **BH03**
Contract Number: CCG-C-22-13093	Date Started: 09/06/2022	Logged By: LT	Checked By: CB	Status: FINAL
Dynamic Sampling Borehole Log	Easting:	Northing:	Ground Level:	Plant Used: DANDO TERRIER RIG
Rig Crew: LN	Scale: 1:25			Sheet 1 of 1
Weather:	Termination: AS SCHEDULED		SPT Hammer: N/R, Energy Ratio: N/R	

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
				0.20		Grey gravel SUB-BASE		
				(0.50)		Dark brown slightly silty very sandy GRAVEL. Gravel is fine to coarse angular to sub-rounded cinders (MADE GROUND)		
				0.70		Very loose brown slightly silty very gravelly fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded brick, coal, cinders and sandstone (MADE GROUND)		
		SPT(S)N=1 (1,0/0,0,1,0)		(0.60)				
		HV 1.40m, 40/40kPa HVP=40		1.30		Firm greyish brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to coarse angular to sub-rounded brick, sandstone and coal (MADE GROUND)		
		HV 1.80m, 40/40kPa HVP=40		(0.90)				
		SPT(S)N=4 (0,1/1,1,1,1)		2.20		Dark brown very sandy silty GRAVEL. Gravel is fine to coarse angular to sub-rounded cinders, coal and mudstone (MADE GROUND)		
				(0.80)		*Limited Recovery*		
				3.00		End of Borehole at 3.00m		

1 2 3 4 5

Start & End of Shift Observations					Borehole Diameter		Casing Diameter	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)

Chiselling			
From (m)	To (m)	Duration	Remarks

Installation			
Top (m)	Base (m)	Type	Dia (mm)

Remarks:
BOREHOLE ADVANCED BY DYNAMIC PROBING

Water Strikes					
Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks

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Unit 1, Deltic Way, Knowsley industrial Estate, L33 7BU
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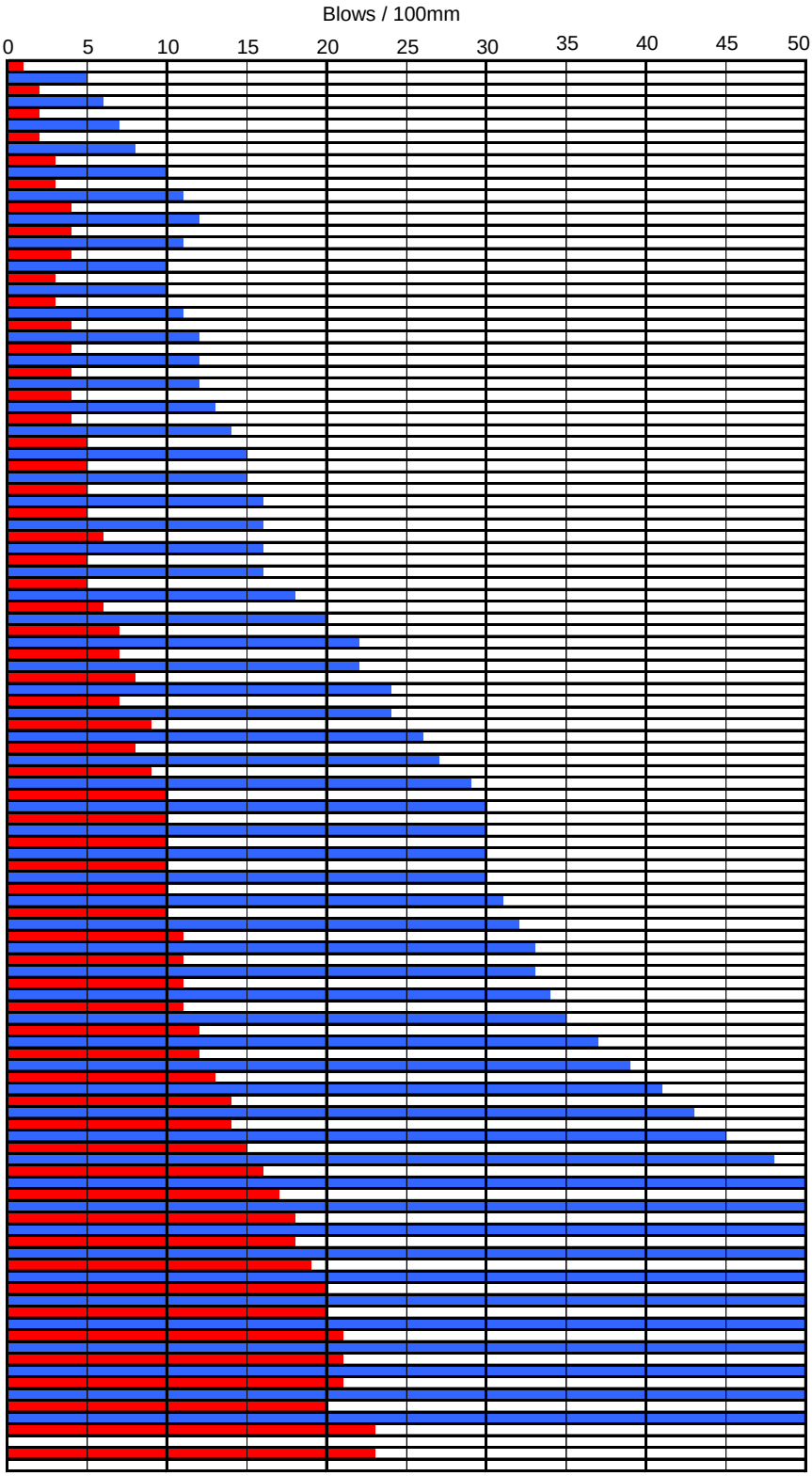
DYNAMIC PROBE TEST RESULTS SHEET

SITE:	Feralco, Widnes
CLIENT:	Addison Projects
PROBE NUMBER:	DP3
DATE:	14-Jun-22

DPSH IN ACCORDANCE WITH BS 1377: PART 9: CLAUSE 3.2
CONE BURIED:
PROBE HOLE BACKFILLED:
REMARKS:

Depth (m)	Blows / 100mm	Equivalent SPT 'N' value
3.1	1	5
3.2	2	6
3.3	2	7
3.4	2	8
3.5	3	10
3.6	3	11
3.7	4	12
3.8	4	11
3.9	4	10
4.0	3	10
4.1	3	11
4.2	4	12
4.3	4	12
4.4	4	12
4.5	4	13
4.6	4	14
4.7	5	15
4.8	5	15
4.9	5	16
5.0	5	16
5.1	6	16
5.2	5	16
5.3	5	18
5.4	6	20
5.5	7	22
5.6	7	22
5.7	8	24
5.8	7	24
5.9	9	26
6.0	8	27
6.1	9	29
6.2	10	30
6.3	10	30
6.4	10	30
6.5	10	30
6.6	10	31
6.7	10	32
6.8	11	33
6.9	11	33
7.0	11	34
7.1	11	35
7.2	12	37
7.3	12	39
7.4	13	41
7.5	14	43
7.6	14	45
7.7	15	48
7.8	16	51
7.9	17	53
8.0	18	55
8.1	18	57
8.2	19	59
8.3	20	61
8.4	20	62
8.5	21	63
8.6	21	62
8.7	21	64
8.8	20	66
8.9	23	
9.0	23	



Dynamic probe value (Blows/100mm) Equivalent SPT 'N' value

Contract Name: Feralco, Widnes		Client: Addison Project PLC		Borehole ID: **BH04**
Contract Number: CCG-C-22-13093	Date Started: 08/06/2022	Logged By: LT	Checked By: CB	Status: FINAL — Sheet 1 of 1
Dynamic Sampling Borehole Log	Easting:	Northing:	Ground Level:	Plant Used: DANDO TERRIER RIG — Rig Crew: LN — Scale: 1:25
Weather:	Termination: AS SCHEDULED		SPT Hammer: N/R, Energy Ratio: N/R	

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
				(0.50)		Light brown slightly silty very gravelly fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded concrete and brick (MADE GROUND)		
				0.50		Dark brown very gravelly clayey SAND with occasional pockets of clay. Gravel is fine to coarse angular to sub-rounded brick, coal and cinders (MADE GROUND)		
				(0.50)				
				1.00		Very loose greyish brown slightly silty very gravelly fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded brick, cinders and concrete (MADE GROUND)		
		SPT(S)N=2 (0,1/1,0,0,1)					▼	
				(1.70)				
		SPT(S)N=4 (1,1/1,1,1,1)						
				2.70		Stiff brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to medium sub-angular to sub-rounded sandstone and quartz		
		HV 2.80m, 80/80kPa HVP=80		(0.30)				
				3.00		End of Borehole at 3.00m		

1 2 3 4 5

Start & End of Shift Observations					Borehole Diameter		Casing Diameter	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)

Chiselling			
From (m)	To (m)	Duration	Remarks

Installation			
Top (m)	Base (m)	Type	Dia (mm)

Remarks:
BOREHOLE ADVANCED BY DYNAMIC PROBING

Water Strikes

Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
1.50			0		Seepage

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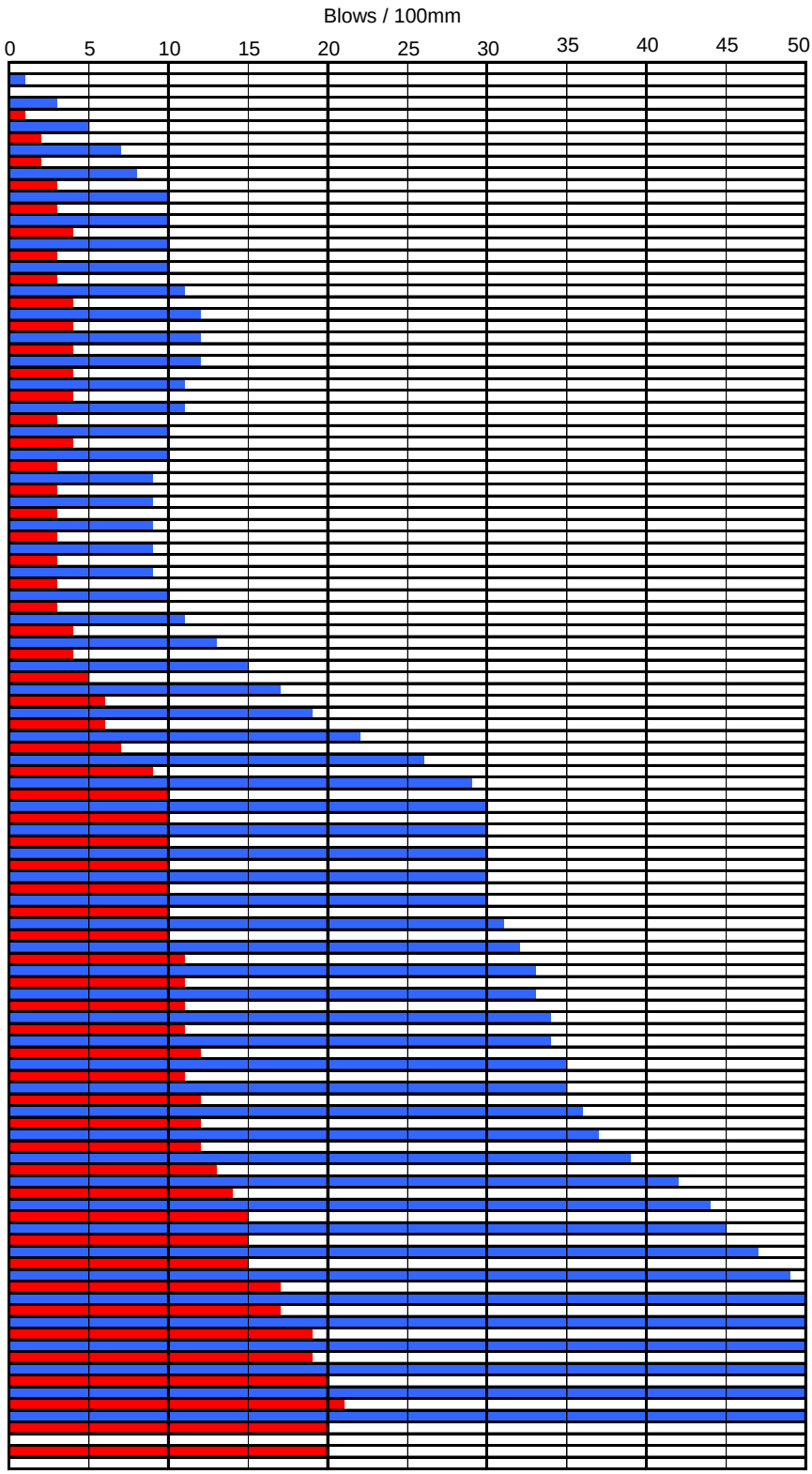
DYNAMIC PROBE TEST RESULTS SHEET

SITE:	Feralco, Widnes
CLIENT:	Addison Projects
PROBE NUMBER:	DP4
DATE:	14-Jun-22

DPSH IN ACCORDANCE WITH BS 1377: PART 9: CLAUSE 3.2
CONE BURIED:
PROBE HOLE BACKFILLED:
REMARKS:

Depth (m)	Blows / 100mm	Equivalent SPT 'N' value
3.1	0	1
3.2	0	3
3.3	1	5
3.4	2	7
3.5	2	8
3.6	3	10
3.7	3	10
3.8	4	10
3.9	3	10
4.0	3	11
4.1	4	12
4.2	4	12
4.3	4	12
4.4	4	11
4.5	4	11
4.6	3	10
4.7	4	10
4.8	3	9
4.9	3	9
5.0	3	9
5.1	3	9
5.2	3	9
5.3	3	10
5.4	3	11
5.5	4	13
5.6	4	15
5.7	5	17
5.8	6	19
5.9	6	22
6.0	7	26
6.1	9	29
6.2	10	30
6.3	10	30
6.4	10	30
6.5	10	30
6.6	10	30
6.7	10	31
6.8	10	32
6.9	11	33
7.0	11	33
7.1	11	34
7.2	11	34
7.3	12	35
7.4	11	35
7.5	12	36
7.6	12	37
7.7	12	39
7.8	13	42
7.9	14	44
8.0	15	45
8.1	15	47
8.2	15	49
8.3	17	53
8.4	17	55
8.5	19	58
8.6	19	60
8.7	20	61
8.8	21	61
8.9	20	
9.0	20	



Dynamic probe value (Blows/100mm) Equivalent SPT 'N' value

Contract Name: Feralco, Widnes		Client: Addison Project PLC		Borehole ID: **BH05**
Contract Number: CCG-C-22-13093	Date Started: 09/06/2022	Logged By: LT	Checked By: CB	Status: FINAL — Sheet 1 of 1
Dynamic Sampling Borehole Log	Easting:	Northing:	Ground Level:	Plant Used: DANDO TERRIER RIG — Rig Crew: LN — Scale: 1:25
Weather:	Termination: AS SCHEDULED		SPT Hammer: N/R, Energy Ratio: N/R	

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
				(0.40)		Dark brown slightly silty silty sandy GRAVEL. Gravel is fine to coarse angular to sub-rounded concrete (MADE GROUND)		
				0.40		Loose to medium dense dark brown silty gravelly fine to coarse SAND. Gravel is fine to medium sub-angular to sub-rounded brick, coal, cinders and sandstone (MADE GROUND)		
						Limited Recovery		
		SPT(S)N=15 (1,5/6,5,3,1)						
				(2.60)				
		SPT(S)N=9 (2,1/0,1,3,5)						
						Limited Recovery		
				3.00		End of Borehole at 3.00m		

1 2 3 4 5

Start & End of Shift Observations					Borehole Diameter		Casing Diameter	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)

Chiselling			
From (m)	To (m)	Duration	Remarks

Installation			
Top (m)	Base (m)	Type	Dia (mm)

Remarks:
BOREHOLE ADVANCED BY DYNAMIC PROBING

Water Strikes					
Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks

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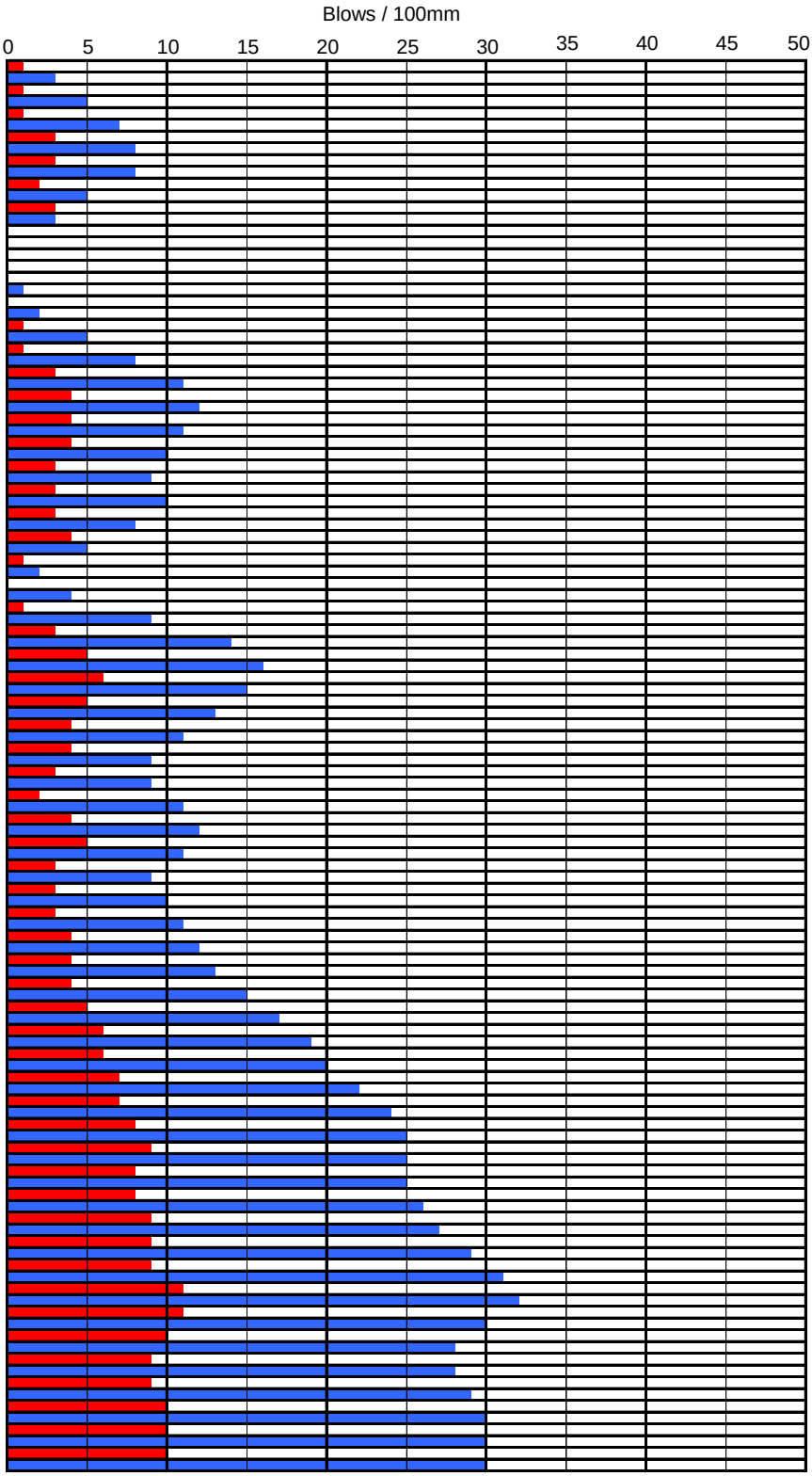
DYNAMIC PROBE TEST RESULTS SHEET

SITE:	Feralco, Widnes
CLIENT:	Addison Projects
PROBE NUMBER:	DP5
DATE:	14-Jun-22

DPSH IN ACCORDANCE WITH BS 1377: PART 9: CLAUSE 3.2
CONE BURIED:
PROBE HOLE BACKFILLED:
REMARKS: Page 1 of 2

Depth (m)	Blows / 100mm	Equivalent SPT 'N' value
3.1	1	3
3.2	1	5
3.3	1	7
3.4	3	8
3.5	3	8
3.6	2	5
3.7	3	3
3.8	0	0
3.9	0	0
4.0	0	1
4.1	0	2
4.2	1	5
4.3	1	8
4.4	3	11
4.5	4	12
4.6	4	11
4.7	4	10
4.8	3	9
4.9	3	10
5.0	3	8
5.1	4	5
5.2	1	2
5.3	0	4
5.4	1	9
5.5	3	14
5.6	5	16
5.7	6	15
5.8	5	13
5.9	4	11
6.0	4	9
6.1	3	9
6.2	2	11
6.3	4	12
6.4	5	11
6.5	3	9
6.6	3	10
6.7	3	11
6.8	4	12
6.9	4	13
7.0	4	15
7.1	5	17
7.2	6	19
7.3	6	20
7.4	7	22
7.5	7	24
7.6	8	25
7.7	9	25
7.8	8	25
7.9	8	26
8.0	9	27
8.1	9	29
8.2	9	31
8.3	11	32
8.4	11	30
8.5	10	28
8.6	9	28
8.7	9	29
8.8	10	30
8.9	10	30
9.0	10	30



Dynamic probe value (Blows/100mm) Equivalent SPT 'N' value

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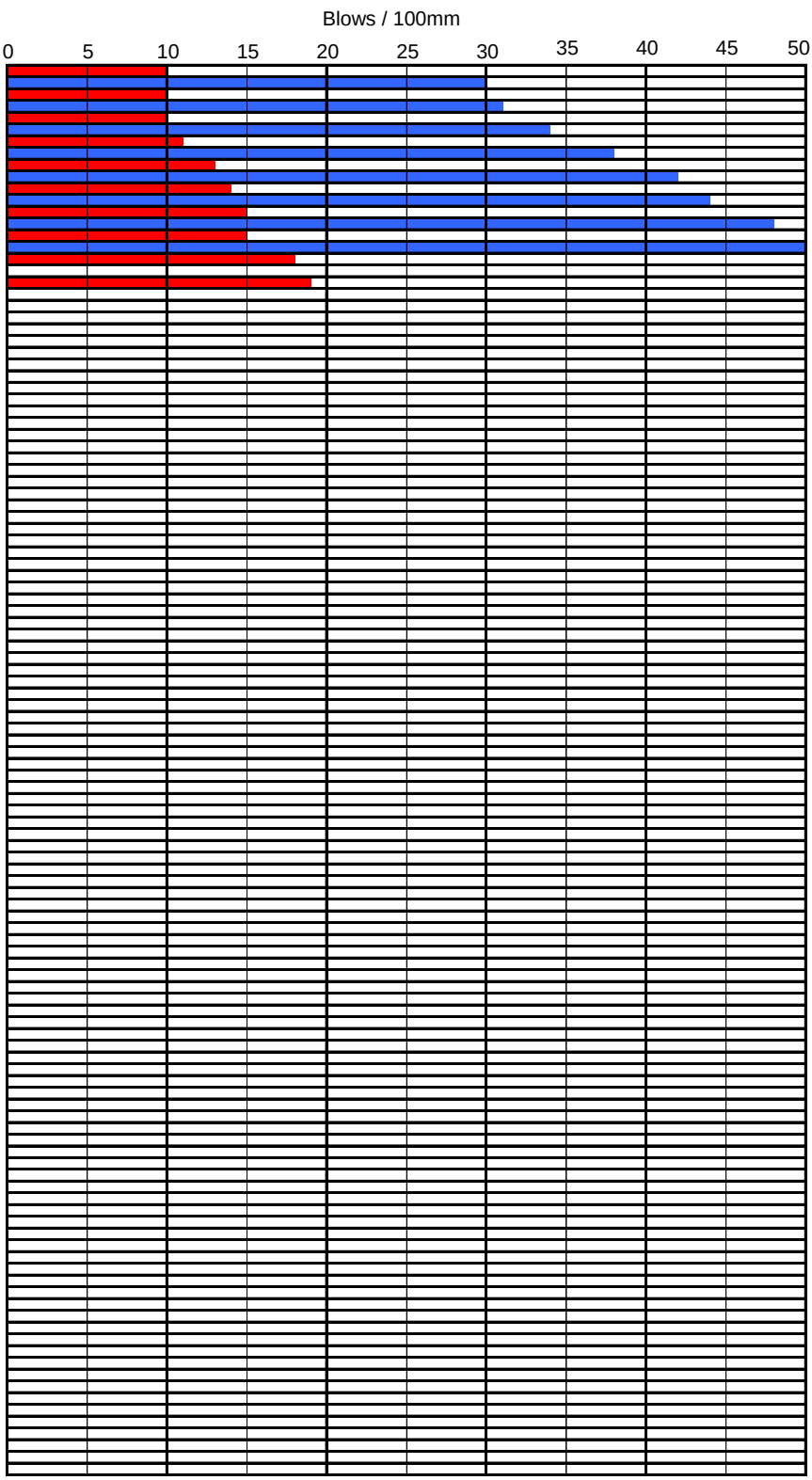
DYNAMIC PROBE TEST RESULTS SHEET

SITE:	Feralco, Widnes
CLIENT:	Addison Projects
PROBE NUMBER:	DP5
DATE:	14-Jun-22

DPSH IN ACCORDANCE WITH BS 1377: PART 9: CLAUSE 3.2
CONE BURIED:
PROBE HOLE BACKFILLED:
REMARKS: Page 2 of 2

Depth (m)	Blows / 100mm	Equivalent SPT 'N' value
9.1	10	30
9.2	10	31
9.3	10	34
9.4	11	38
9.5	13	42
9.6	14	44
9.7	15	48
9.8	15	52
9.9	18	
10.0	19	



Dynamic probe value (Blows/100mm) Equivalent SPT 'N' value

	Contract Name: Feralco, Widnes		Client: Addison Project PLC		Borehole ID: **BH06**
	Contract Number: CCG-C-22-13093	Date Started: 09/06/2022	Logged By: LT	Checked By: CB	Status: FINAL
Dynamic Sampling Borehole Log	Easting:	Northing:	Ground Level:	Plant Used: DANDO TERRIER RIG	Rig Crew: LN
					Sheet 1 of 1
					Scale: 1:25
Weather:		Termination: AS SCHEDULED		SPT Hammer: N/R, Energy Ratio: N/R	

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
				(3.00)		Medium dense dark brown silty gravelly fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded concrete, brick, coal, cinders and sandstone (MADE GROUND)		
						Voids in ground		
		SPT(S)N=0 (0,0/0,0,0,0)						
		SPT(S)N=6 (1,1/1,1,0,4)						
				3.00		End of Borehole at 3.00m		

1 2 3 4 5

Start & End of Shift Observations					Borehole Diameter		Casing Diameter	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)

Chiselling				Installation			
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)

Remarks:
BOREHOLE ADVANCED BY DYNAMIC PROBING

Water Strikes					
Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks

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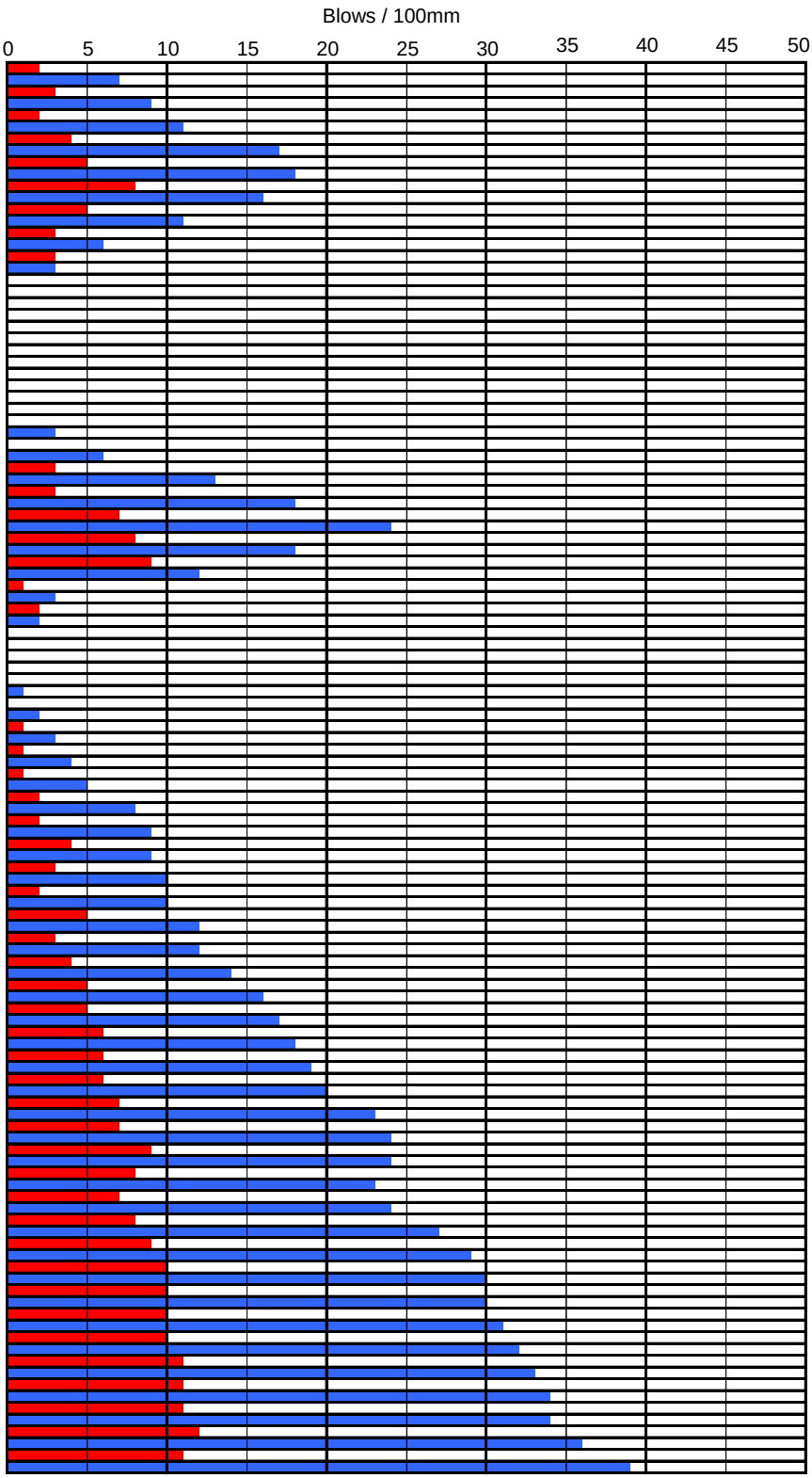
DYNAMIC PROBE TEST RESULTS SHEET

SITE:	Feralco, Widnes
CLIENT:	Addison Projects
PROBE NUMBER:	DP6
DATE:	14-Jun-22

DPSH IN ACCORDANCE WITH BS 1377: PART 9: CLAUSE 3.2
CONE BURIED:
PROBE HOLE BACKFILLED:
REMARKS: Page 1 of 2

Depth (m)	Blows / 100mm	Equivalent SPT 'N' value
3.1	2	7
3.2	3	9
3.3	2	11
3.4	4	17
3.5	5	18
3.6	8	16
3.7	5	11
3.8	3	6
3.9	3	3
4.0	0	0
4.1	0	0
4.2	0	0
4.3	0	0
4.4	0	0
4.5	0	0
4.6	0	3
4.7	0	6
4.8	3	13
4.9	3	18
5.0	7	24
5.1	8	18
5.2	9	12
5.3	1	3
5.4	2	2
5.5	0	0
5.6	0	0
5.7	0	1
5.8	0	2
5.9	1	3
6.0	1	4
6.1	1	5
6.2	2	8
6.3	2	9
6.4	4	9
6.5	3	10
6.6	2	10
6.7	5	12
6.8	3	12
6.9	4	14
7.0	5	16
7.1	5	17
7.2	6	18
7.3	6	19
7.4	6	20
7.5	7	23
7.6	7	24
7.7	9	24
7.8	8	23
7.9	7	24
8.0	8	27
8.1	9	29
8.2	10	30
8.3	10	30
8.4	10	31
8.5	10	32
8.6	11	33
8.7	11	34
8.8	11	34
8.9	12	36
9.0	11	39



Dynamic probe value (Blows/100mm) Equivalent SPT 'N' value

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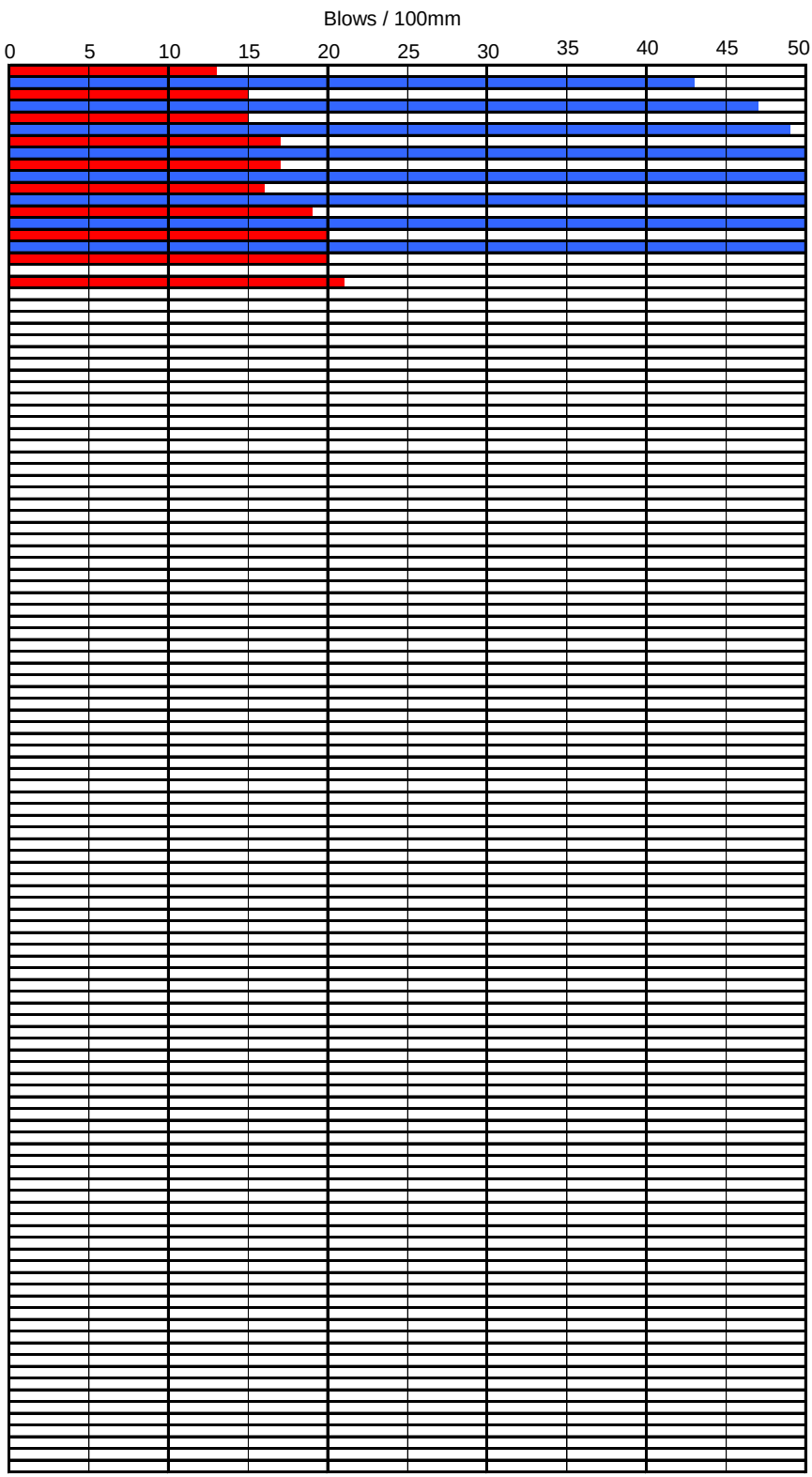
DYNAMIC PROBE TEST RESULTS SHEET

SITE:	Feralco, Widnes
CLIENT:	Addison Projects
PROBE NUMBER:	DP6
DATE:	14-Jun-22

DPSH IN ACCORDANCE WITH BS 1377: PART 9: CLAUSE 3.2
CONE BURIED:
PROBE HOLE BACKFILLED:
REMARKS: Page 2 of 2

Depth (m)	Blows / 100mm	Equivalent SPT 'N' value
9.1	13	43
9.2	15	47
9.3	15	49
9.4	17	50
9.5	17	52
9.6	16	55
9.7	19	59
9.8	20	61
9.9	20	
10.0	21	



Dynamic probe value (Blows/100mm) Equivalent SPT 'N' value

Contract Name: Feralco, Widnes		Client: Addison Project PLC		Borehole ID: **BH07**
Contract Number: CCG-C-22-13093	Date Started: 08/06/2022	Logged By: LT	Checked By: CB	Status: FINAL
Dynamic Sampling Borehole Log	Easting:	Northing:	Ground Level:	Plant Used: DANDO TERRIER RIG
Rig Crew: LN	Scale: 1:25	Sheet 1 of 1		
Weather:	Termination: AS SCHEDULED	SPT Hammer: N/R, Energy Ratio: N/R		

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
				(2.10)		Medium dense dark brown silty gravelly fine to coarse SAND. Gravel is fine to coarse angular to sub-rounded concrete, brick, coal, cinders and sandstone (MADE GROUND)		
		SPT(S)N=6 (2,1/2,3,1,0)						
		SPT(S)N=6 (1,1/1,2,3,0)		2.10		Light brown very sandy silty GRAVEL. Gravel is fine to coarse angular to sub-rounded concrete and limestone (MADE GROUND)		
				(0.90)		*Limited Recovery*		
				3.00		End of Borehole at 3.00m		

Start & End of Shift Observations					Borehole Diameter		Casing Diameter	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)

Chiselling				Installation			
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)

Remarks:
BOREHOLE ADVANCED BY DYNAMIC PROBING

Water Strikes					
Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks

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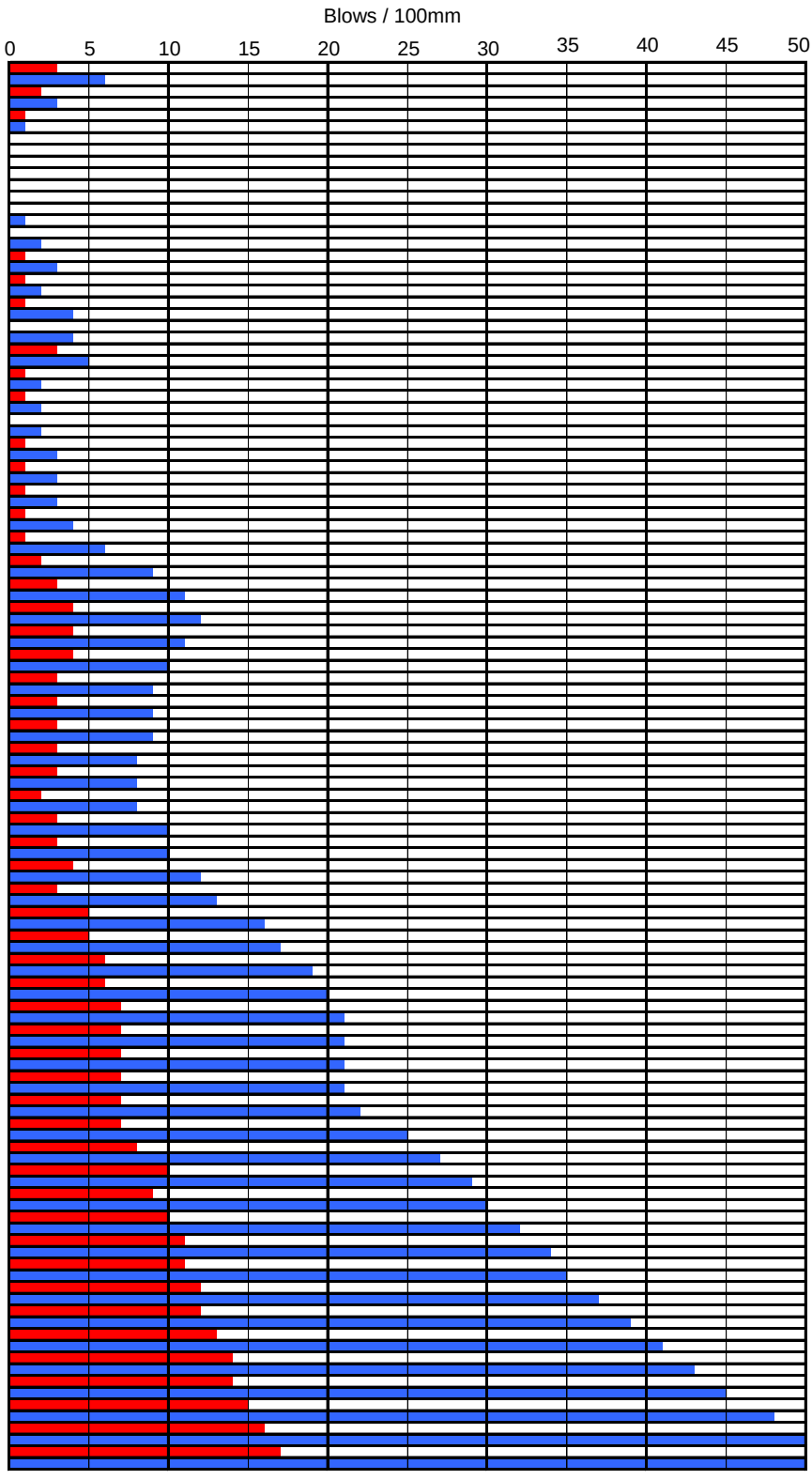
DYNAMIC PROBE TEST RESULTS SHEET

SITE:	Feralco, Widnes
CLIENT:	Addison Projects
PROBE NUMBER:	DP7
DATE:	14-Jun-22

DPSH IN ACCORDANCE WITH BS 1377: PART 9: CLAUSE 3.2
CONE BURIED:
PROBE HOLE BACKFILLED:
REMARKS: Page 1 of 2

Depth (m)	Blows / 100mm	Equivalent SPT 'N' value
3.1	3	6
3.2	2	3
3.3	1	1
3.4	0	0
3.5	0	0
3.6	0	0
3.7	0	1
3.8	0	2
3.9	1	3
4.0	1	2
4.1	1	4
4.2	0	4
4.3	3	5
4.4	1	2
4.5	1	2
4.6	0	2
4.7	1	3
4.8	1	3
4.9	1	3
5.0	1	4
5.1	1	6
5.2	2	9
5.3	3	11
5.4	4	12
5.5	4	11
5.6	4	10
5.7	3	9
5.8	3	9
5.9	3	9
6.0	3	8
6.1	3	8
6.2	2	8
6.3	3	10
6.4	3	10
6.5	4	12
6.6	3	13
6.7	5	16
6.8	5	17
6.9	6	19
7.0	6	20
7.1	7	21
7.2	7	21
7.3	7	21
7.4	7	21
7.5	7	22
7.6	7	25
7.7	8	27
7.8	10	29
7.9	9	30
8.0	10	32
8.1	11	34
8.2	11	35
8.3	12	37
8.4	12	39
8.5	13	41
8.6	14	43
8.7	14	45
8.8	15	48
8.9	16	50
9.0	17	51



Dynamic probe value (Blows/100mm) Equivalent SPT 'N' value

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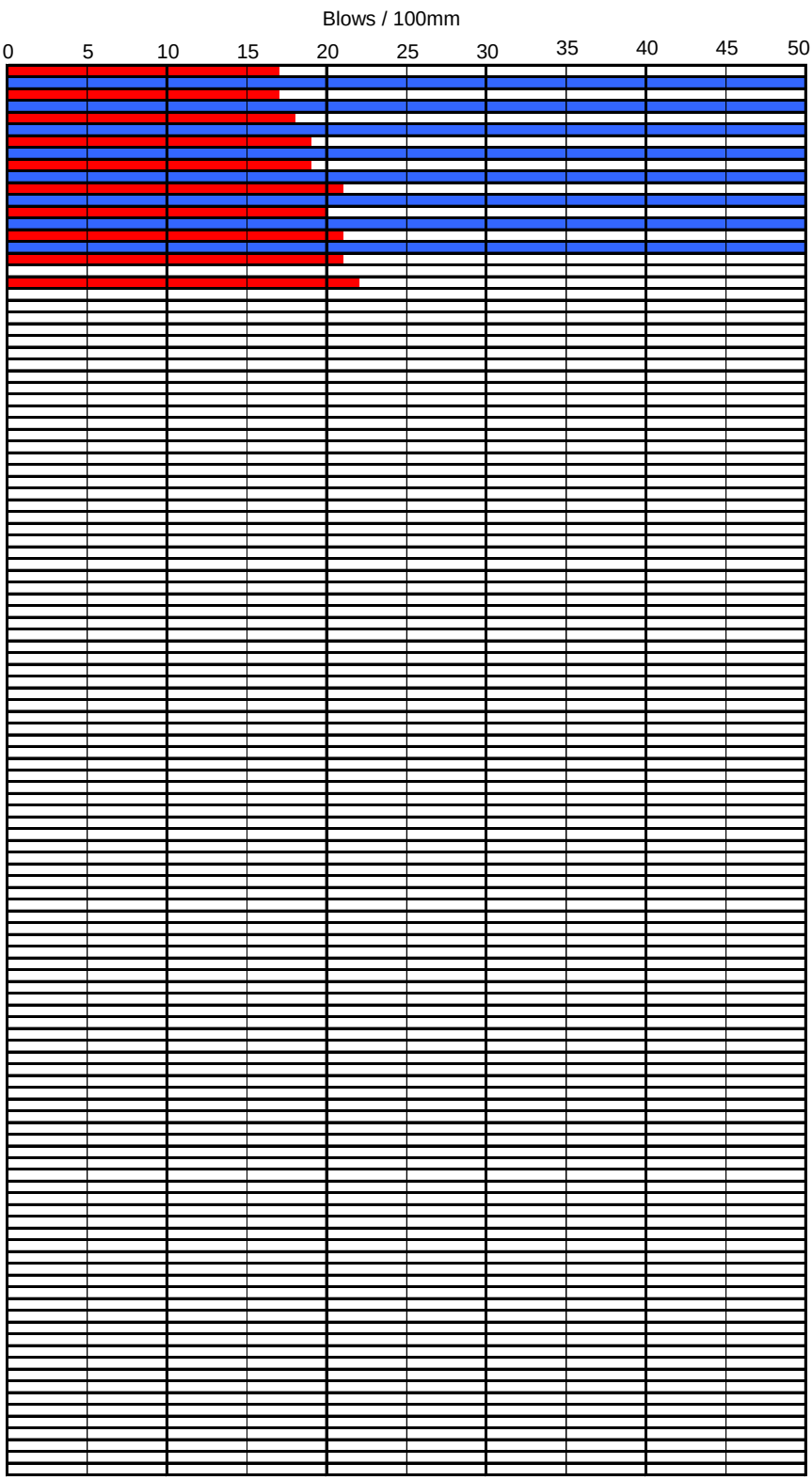
DYNAMIC PROBE TEST RESULTS SHEET

SITE:	Feralco, Widnes
CLIENT:	Addison Projects
PROBE NUMBER:	DP7
DATE:	14-Jun-22

DPSH IN ACCORDANCE WITH BS 1377: PART 9: CLAUSE 3.2
CONE BURIED:
PROBE HOLE BACKFILLED:
REMARKS: Page 2 of 2

Depth (m)	Blows / 100mm	Equivalent SPT 'N' value
9.1	17	52
9.2	17	54
9.3	18	56
9.4	19	59
9.5	19	60
9.6	21	62
9.7	20	62
9.8	21	64
9.9	21	
10.0	22	



Dynamic probe value (Blows/100mm) Equivalent SPT 'N' value

Contract Name: Additional Works at Feralco, Widnes			Client: Addison Projects LTD	Borehole ID: **BH08**
Contract Number: CCG-C-22-13352	Date Started: 25/08/2022	Logged By: LT	Checked By: CB	Status: FINAL — Sheet 1 of 1
Dynamic Sampling Borehole Log	Easting:	Northing:	Ground Level:	Plant Used: DANDO TERRIER — Rig Crew: LN/JG — Scale: 1:25
Weather:	Termination: AS SCHEDULED		SPT Hammer: N/R, Energy Ratio: N/R	

Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
				(0.30)		Brown sandy slightly gravelly silty friable CLAY. Gravel is fine to coarse sub-angular sandstone and mudstone (MADE GROUND)		
				0.30		Loose dark brown sandy GRAVEL. Gravel is fine to coarse sub-rounded to sub-angular cinders and brick (MADE GROUND)		
		SPT(S)N=8 (1,2/2,2,2,2)		(1.50)				
				1.80		Firm to stiff dark brown slightly sandy silty CLAY with organic inclusions		
		HV 1.90m, 60/60kPa HVP=60						
		SPT(S)N=13 (2,3/3,4,3,3)		2.00		Stiff grey becoming brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to medium sub-angular mudstone		
		HV 2.30m, 90/90kPa HVP=90						
		HV 2.70m, 80/80kPa HVP=80						
		SPT(S)N=17 (3,3/3,4,5,5)					▼	
				(3.00)				
		HV 3.80m, 110/110kPa HVP=110						
		SPT(S)N=20 (2,4/5,5,5,5)						
		HV 4.20m, 110/110kPa HVP=110						
		HV 4.70m, 110/110kPa HVP=110						
		SPT(S)N=23 (3,4/5,6,6,6)		5.00		End of Borehole at 5.00m		

Start & End of Shift Observations					Borehole Diameter		Casing Diameter	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)

Remarks:

Chiselling				Installation			
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)

Water Strikes

Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
3.00			0		SWL

Contract Name: Additional Works at Feralco, Widnes			Client: Addison Projects LTD	Borehole ID: **BH09**
Contract Number: CCG-C-22-13352	Date Started: 25/08/2022	Logged By: LT	Checked By: CB	Status: FINAL — Sheet 1 of 1
Dynamic Sampling Borehole Log	Easting:	Northing:	Ground Level:	Plant Used: DANDO TERRIER — Rig Crew: LN/JG — Scale: 1:25
Weather:	Termination: AS SCHEDULED		SPT Hammer: N/R, Energy Ratio: N/R	

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
				0.20		Wood and bark chipping		
				(1.60)		Loose dark brown sandy GRAVEL. Gravel is fine to coarse sub-rounded to sub-angular cinders and brick (MADE GROUND)		
		SPT(S)N=10 (1,1/2,3,3,2)		1.80		Firm to stiff dark brown slightly sandy silty organic CLAY		
		SPT(S)N=7 (1,1/2,1,2,2)		(0.60)				
		HV 2.60m, 110/110kPa HVP=110		2.40		Stiff brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to medium sub-angular to sub-rounded mudstone		
		SPT(S)N=10 (2,2/2,2,3,3)					▼	
		HV 3.60m, 40/40kPa HVP=40		(2.60)				
		SPT(S)N=13 (2,3/3,3,4,3)						
		HV 4.80m, 110/110kPa HVP=110						
		SPT(S)N=21 (3,5/4,5,5,7)		5.00		End of Borehole at 5.00m		

Start & End of Shift Observations					Borehole Diameter		Casing Diameter	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)

Remarks:

Chiselling				Installation			
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)

Water Strikes

Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
3.00			0		SWL

	Contract Name: Additional Works at Feralco, Widnes		Client: Addison Projects LTD		Borehole ID: **BH10**
	Contract Number: CCG-C-22-13352	Date Started: 25/08/2022	Logged By: LT	Checked By: CB	Status: FINAL — Sheet 1 of 1
Dynamic Sampling Borehole Log	Easting:	Northing:	Ground Level:	Plant Used: DANDO TERRIER	Rig Crew: LN/JG — Scale: 1:25
Weather:	Termination: AS SCHEDULED		SPT Hammer: N/R, Energy Ratio: N/R		

Samples & In Situ Testing			Strata Details				Groundwater	
Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
				0.20		TOPSOIL		
						Loose dark brown sandy GRAVEL. Gravel is fine to coarse sub-rounded to sub-angular cinders and brick (MADE GROUND)		
		SPT(S)N=5 (1,1/1,2,1,1)		(1.90)				
		SPT(S)N=8 (1,2/2,2,2,2)		2.10				
		HV 2.40m, 60/60kPa HVP=60				Firm to stiff becoming stiff grey slightly sandy slightly gravelly silty CLAY. Gravel is fine to medium sub-rounded to sub-angular cinders (MADE GROUND)		
				(0.90)				
		HV 2.80m, 90/90kPa HVP=90						
		SPT(S)N=14 (2,2/3,3,4,4)		3.00				
		HV 3.70m, 60/60kPa HVP=60				Stiff brown slightly gravelly slightly sandy silty friable CLAY. Gravel is fine to medium sub-angular to sub-rounded mudstone		
		SPT(S)N=20 (2,3/4,5,5,6)		(2.00)				
		HV 4.20m, 110/110kPa HVP=110						
		HV 4.80m, 110/110kPa HVP=110						
		SPT(S)N=28 (3,4/5,6,8,9)		5.00		End of Borehole at 5.00m		

1 2 3 4 5

Start & End of Shift Observations					Borehole Diameter		Casing Diameter	
Date	Time	Depth (m)	Casing (m)	Water (m)	Depth (m)	Dia (mm)	Depth (m)	Dia (mm)

Remarks:

Chiselling				Installation			
From (m)	To (m)	Duration	Remarks	Top (m)	Base (m)	Type	Dia (mm)

Water Strikes

Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
			0		BH DRY

Contract Name: Additional Works at Feralco, Widnes			Client: Addison Projects LTD	Borehole ID: **BH11**
Contract Number: CCG-C-22-13352	Date Started: 25/08/2022	Logged By: LT	Checked By: CB	Status: FINAL — Sheet 1 of 1
Dynamic Sampling Borehole Log	Easting:	Northing:	Ground Level:	Plant Used: DANDO TERRIER — Rig Crew: LN/JG — Scale: 1:25
Weather:	Termination: AS SCHEDULED		SPT Hammer: N/R, Energy Ratio: N/R	

Depth	Sample ID	Test Result	Level (mAOD)	Depth (m) (Thickness)	Legend	Strata Description	Water Strike	Backfill/ Installation
				0.20		Wood chipping		
				(1.50)		Very loose dark brown sandy GRAVEL. Gravel is fine to coarse sub-rounded to sub-angular cinders and brick (MADE GROUND)		
		SPT(S)N=3 (1,1/0,1,1,1)		1.70				
		HV 1.90m, 60/60kPa HVP=60		(0.50)		Firm to stiff greyish brown slightly sandy silty CLAY.		
		SPT(S)N=7 (1,1/1,2,2,2)		2.20				
		HV 2.50m, 90/90kPa HVP=90				Stiff / firm to stiff in places brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to medium sub-angular to sub-rounded mudstone		
		HV 2.80m, 50/50kPa HVP=50						
		SPT(S)N=6 (1,2/2,1,2,1)						
		HV 3.20m, 110/110kPa HVP=110						
				(2.80)				
		HV 3.70m, 110/110kPa HVP=110						
		SPT(S)N=6 (1,3/2,1,2,1)					▼	
		SPT(S)N=28 (2,4/5,7,7,9)		5.00		End of Borehole at 5.00m		

1 2 3 4 5

Start & End of Shift Observations

Date	Time	Depth (m)	Casing (m)	Water (m)

Borehole Diameter

Depth (m)	Dia (mm)

Casing Diameter

Depth (m)	Dia (mm)

Remarks:

Chiselling

From (m)	To (m)	Duration	Remarks

Installation

Top (m)	Base (m)	Type	Dia (mm)

Water Strikes

Strike (m)	Casing (m)	Sealed (m)	Time (mins)	Rose to (m)	Remarks
4.00			0		SWL

APPENDIX C

DYNAMIC CONE PENETROMETER DATA

Dynamic Cone Penetrometer Strength Analysis Report

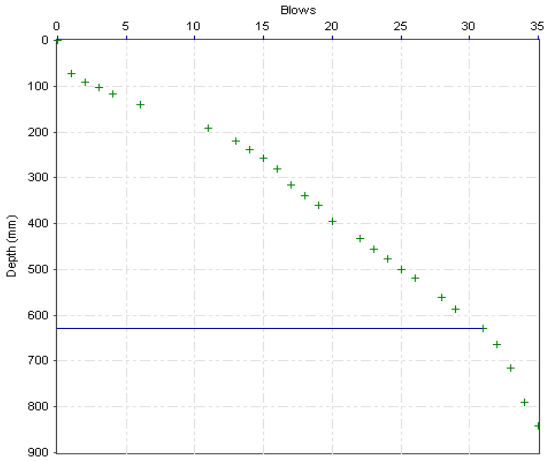
Site: FERALCO, WIDNES
Location: CBR1
Cone Angle: 60 degrees
Zero Error: 112
Test Date: 12.9.22

Job Number: CCG-C-22-13352
Surface Type: TOPSOIL
Thickness (mm):

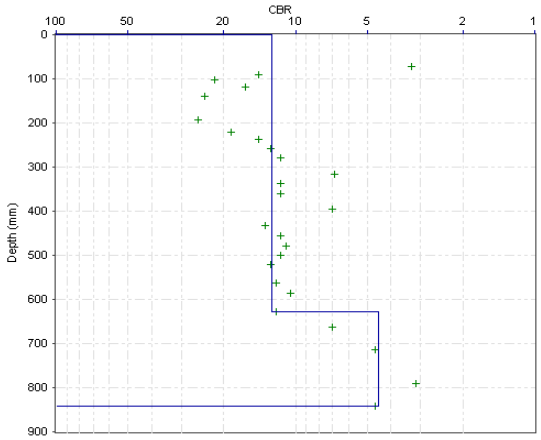
No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/b)
1	0	0	112	0
2	1	1	184	72.0
3	1	2	202	18.0
4	1	3	214	12.0
5	1	4	230	16.0
6	2	6	252	11.0
7	5	11	304	10.4
8	2	13	332	14.0
9	1	14	350	18.0
10	1	15	370	20.0
11	1	16	392	22.0
12	1	17	428	36.0
13	1	18	450	22.0
14	1	19	472	22.0
15	1	20	507	35.0
16	2	22	545	19.0
17	1	23	567	22.0
18	1	24	590	23.0
19	1	25	612	22.0
20	1	26	632	20.0

No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/b)
21	2	28	674	21.0
22	1	29	698	24.0
23	2	31	740	21.0
24	1	32	775	35.0
25	1	33	827	52.0
26	1	34	902	75.0
27	1	35	954	52.0

Layer Boundaries: Chainage 1.000



Layer Boundaries Chart



CBR Chart

Layer Properties

No.	CBR value	Thickness	Depth	Depth to base	Strength Coefficient
1	13	628	628	740	
2	4	214	842	954	

CBR Derived by TDR equation $Log_{10}(CBR)=2.48-1.057 \times Log_{10}(penetration\ rate)$

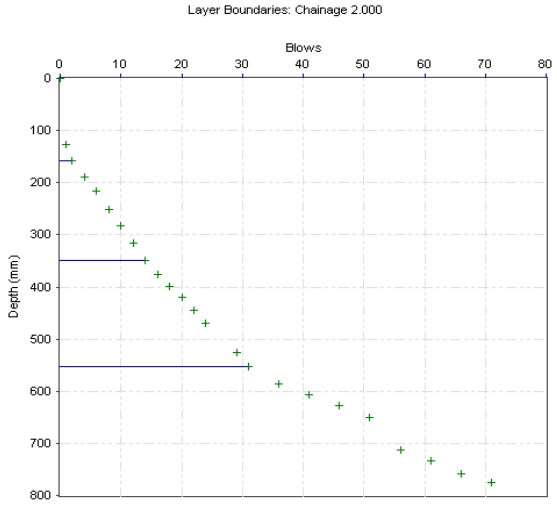
Remarks Surface material description: TOPSOIL

Dynamic Cone Penetrometer Strength Analysis Report

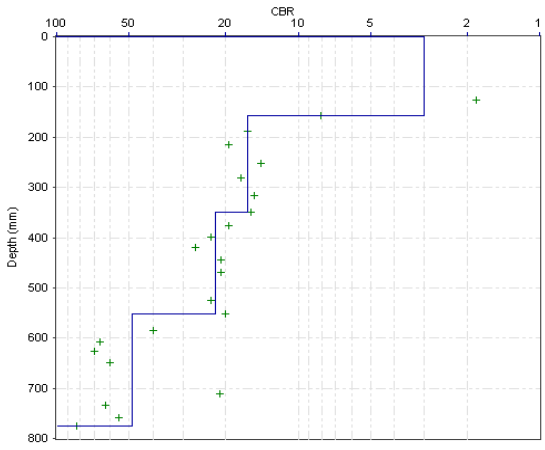
Site: FERALCO, WIDNES
Location: CBR2
Cone Angle: 60 degrees
Zero Error: 98
Test Date: 12.9.22

Job Number: CCG-C-22-13352
Surface Type: TOPSOIL
Thickness (mm):

No.	Blows	Cumulative Blows	Penetration Depth (mm)	Penetration Rate (mm/b)
1	0	0	98	0
2	1	1	224	126.0
3	1	2	255	31.0
4	2	4	287	16.0
5	2	6	314	13.5
6	2	8	350	18.0
7	2	10	380	15.0
8	2	12	414	17.0
9	2	14	447	16.5
10	2	16	474	13.5
11	2	18	497	11.5
12	2	20	517	10.0
13	2	22	542	12.5
14	2	24	567	12.5
15	5	29	624	11.4
16	2	31	650	13.0
17	5	36	684	6.8
18	5	41	705	4.2
19	5	46	725	4.0
20	5	51	748	4.6
21	5	56	810	12.4
22	5	61	832	4.4
23	5	66	857	5.0
24	5	71	874	3.4



Layer Boundaries Chart



CBR Chart

Layer Properties

No.	CBR value	Thickness	Depth	Depth to base	Strength Coefficient
1	3	157	157	255	
2	16	192	349	447	
3	22	203	552	650	
4	49	224	776	874	

CBR Derived by TDR equation $Log_{10}(CBR)=2.48-1.057 \times Log_{10}(penetration\ rate)$

Remarks Surface material description: TOPSOIL

APPENDIX D

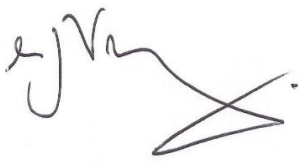
CHEMICAL ANALYSIS REPORTS

Unit A2
Windmill Road
Ponswood Industrial Estate
St Leonards on Sea
East Sussex
TN38 9BY
Telephone: (01424) 718618

cs@elab-uk.co.uk
info@elab-uk.co.uk

2683

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	22-41365
Issue:	1
Date of Issue:	24/06/2022
Contact:	Liam Taylor
Customer Details:	CC Geotechnical Ltd Unit 1 & 2 Deltic Place Deltic Way Liverpool MersevsideL33 7BA
Quotation No:	Q22-02618
Order No:	Not Supplied
Customer Reference:	CCG-C-22-13093
Date Received:	17/06/2022
Date Approved:	24/06/2022
Details:	Feralco, Widnes
Approved by:	

Mike Varley, General Manager

Sample Summary

Report No.: 22-41365, issue number 1

Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
283703	BH01 0.70	Not Provided	17/06/2022	Silty loam	a
283704	BH02 1.30	Not Provided	17/06/2022	Silty loam	a
283705	BH03 0.80	Not Provided	17/06/2022	Silty loam	a
283706	BH03 2.30	Not Provided	17/06/2022	Silty loam	a
283707	BH04 0.30	Not Provided	17/06/2022	Silty loam	a
283708	BH05 2.80	Not Provided	17/06/2022	Silty clayey loam	a
283709	BH06 0.60	Not Provided	17/06/2022	Silty loam	a
283710	BH07 0.20	Not Provided	17/06/2022	Silty loam	a

Results Summary

Report No.: 22-41365, issue number 1

				ELAB Reference	283703	283704	283705	283706	283707	283708	283709	283710
				Customer Reference								
				Sample ID								
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	BH01	BH02	BH03	BH03	BH04	BH05	BH06	BH07
				Sample Depth (m)	0.70	1.30	0.80	2.30	0.30	2.80	0.60	0.20
				Sampling Date	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided
Determinand	**Codes**	**Units**	**LOD**									
Soil sample preparation parameters												
Moisture Content	N	%	0.1		11.9	20.5	16.7	18.0	17.3	16.2	10.4	13.4
Material removed	N	%	0.1		20.7	< 0.1	23.8	23.0	< 0.1	< 0.1	29.1	31.1
Description of Inert material removed	N		0		Stones	None	Wood/Stones	Wood/Stones	None	None	Stones	Brick/Stones
Metals												
Antimony	N	mg/kg	2.5		19.9	4.0	7.7	6.9	38.7	< 2.5	9.5	4.9
Arsenic	M	mg/kg	1		352	34.4	144	382	347	26.0	37.3	21.6
Cadmium	M	mg/kg	0.5		1.3	< 0.5	1.9	1.0	5.2	< 0.5	0.9	0.6
Chromium	M	mg/kg	5		27.0	29.6	21.9	23.3	52.3	42.0	37.2	22.5
Copper	M	mg/kg	5		638	155	195	392	797	42.7	173	102
Lead	M	mg/kg	5		919	85.6	236	351	1730	51.4	302	185
Mercury	M	mg/kg	0.5		7.0	< 0.5	1.9	1.0	2.0	< 0.5	0.8	< 0.5
Molybdenum	N	mg/kg	0.5		6.5	1.6	3.9	5.2	11.9	0.9	5.2	2.1
Nickel	M	mg/kg	5		81.9	21.5	38.8	31.1	66.8	47.6	39.7	21.6
Selenium	M	mg/kg	1		7.6	< 1.0	< 1.0	1.2	< 1.0	< 1.0	< 1.0	< 1.0
Zinc	M	mg/kg	5		2140	323	1600	453	2930	119	479	289
Anions												
Water Soluble Sulphate	M	g/l	0.02		2.43	4.27	0.77	2.25	0.67	0.26	0.13	0.37
Inorganics												
Free Cyanide	N	mg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexavalent Chromium	N	mg/kg	0.8		< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Total Sulphide	N	mg/kg	2		< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Acid Soluble Sulphate (SO4)	U	%	0.02		1.24	8.91	0.40	1.45	0.71	0.11	0.18	0.23
Water Soluble Boron	N	mg/kg	0.5		1.6	2.5	0.7	1.8	1.5	1.6	1.2	0.9

Results Summary

Report No.: 22-41365, issue number 1

				ELAB Reference	283703	283704	283705	283706	283707	283708	283709	283710
				Customer Reference								
				Sample ID								
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	BH01	BH02	BH03	BH03	BH04	BH05	BH06	BH07
				Sample Depth (m)	0.70	1.30	0.80	2.30	0.30	2.80	0.60	0.20
				Sampling Date	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided
Determinand	**Codes**	**Units**	**LOD**									
Miscellaneous												
Acid Neutralisation Capacity	N	mol/kg	0.1		n/t	n/t	n/t	n/t	n/t	n/t	< 0.1	< 0.1
Loss on Ignition	M	%	0.01		n/t	n/t	n/t	n/t	n/t	n/t	6.17	5.17
pH	M	pH units	0.1		7.8	5.6	6.6	7.0	7.4	8.2	8.6	8.3
Soil Organic Matter	U	%	0.1		3.4	1.4	5.8	2.2	3.3	0.4	3.3	3.6
Total Organic Carbon	N	%	0.01		n/t	n/t	n/t	n/t	n/t	n/t	3.4	2.4
Polyaromatic hydrocarbons												
Naphthalene	M	mg/kg	0.1		0.2	< 0.1	0.1	0.5	0.3	< 0.1	< 0.1	< 0.1
Acenaphthylene	M	mg/kg	0.1		< 0.1	< 0.1	< 0.1	0.1	0.2	< 0.1	< 0.1	< 0.1
Acenaphthene	M	mg/kg	0.1		< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1	< 0.1	< 0.1
Fluorene	M	mg/kg	0.1		< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1	< 0.1	0.4
Phenanthrene	M	mg/kg	0.1		< 0.1	< 0.1	0.4	1.2	1.1	< 0.1	0.3	0.3
Anthracene	M	mg/kg	0.1		< 0.1	< 0.1	0.2	0.4	0.2	< 0.1	0.1	0.2
Fluoranthene	M	mg/kg	0.1		< 0.1	< 0.1	1.0	1.8	2.1	< 0.1	0.9	0.8
Pyrene	M	mg/kg	0.1		< 0.1	< 0.1	0.8	1.5	1.7	< 0.1	0.8	0.6
Benzo(a)anthracene	M	mg/kg	0.1		< 0.1	< 0.1	0.6	0.9	1.0	< 0.1	0.5	0.4
Chrysene	M	mg/kg	0.1		< 0.1	< 0.1	0.6	1.1	1.4	< 0.1	0.6	0.5
Benzo(b)fluoranthene	M	mg/kg	0.1		< 0.1	< 0.1	0.5	0.8	1.1	< 0.1	0.5	0.3
Benzo(k)fluoranthene	M	mg/kg	0.1		< 0.1	< 0.1	0.7	1.3	1.2	< 0.1	0.7	0.4
Benzo(a)pyrene	M	mg/kg	0.1		< 0.1	< 0.1	0.5	0.9	1.2	< 0.1	0.5	0.4
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1		< 0.1	< 0.1	0.3	0.6	0.9	< 0.1	0.4	0.3
Dibenzo(a,h)anthracene	M	mg/kg	0.1		< 0.1	< 0.1	< 0.1	0.1	0.2	< 0.1	< 0.1	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1		< 0.1	< 0.1	0.3	0.6	0.8	< 0.1	0.3	0.3
Total PAH(16)	M	mg/kg	0.4		0.5	< 0.4	6.2	12.3	13.4	< 0.4	5.9	5.3
Total (of 17) PAHs	N	mg/kg	2		n/t	n/t	n/t	n/t	n/t	n/t	6	5

Results Summary

Report No.: 22-41365, issue number 1

				ELAB Reference	283703	283704	283705	283706	283707	283708	283709	283710
				Customer Reference								
				Sample ID								
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	BH01	BH02	BH03	BH03	BH04	BH05	BH06	BH07
				Sample Depth (m)	0.70	1.30	0.80	2.30	0.30	2.80	0.60	0.20
				Sampling Date	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided
Determinand	**Codes**	**Units**	**LOD**									
BTEX												
Benzene	M	ug/kg	10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Toluene	M	ug/kg	10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Xylenes	M	ug/kg	10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
MTBE	U	ug/kg	10		< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0
Total BTEX	N	mg/kg	0.01		n/t	n/t	n/t	n/t	n/t	n/t	< 0.01	< 0.01
TPH CWG												
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1		2.7	< 1.0	< 1.0	3.3	2.9	< 1.0	31.9	16.9
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.8	4.7
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1		3.5	1.5	1.0	4.6	4.0	< 1.0	38.1	22.4
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01		< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1		< 1.0	7.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.0	< 1.0
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1		< 1.0	< 1.0	< 1.0	2.4	2.2	< 1.0	4.9	1.8
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1		9.8	2.2	4.7	11.0	13.0	< 1.0	79.4	45.3
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1		1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	26.1	15.3
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1		11.9	10.1	5.8	15.3	17.1	< 1.0	112	63.7
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1		15.4	11.6	6.9	19.9	21.1	< 1.0	150	86.1

Tests marked N are not UKAS accredited.

Results Summary

Report No.: 22-41365, issue number 1

				ELAB Reference	283703	283704	283705	283706	283707	283708	283709	283710
				Customer Reference								
				Sample ID								
				Sample Type	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Sample Location	BH01	BH02	BH03	BH03	BH04	BH05	BH06	BH07
				Sample Depth (m)	0.70	1.30	0.80	2.30	0.30	2.80	0.60	0.20
				Sampling Date	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided	Not Provided
Determinand	**Codes**	**Units**	**LOD**									
Total Petroleum Hydrocarbons												
Mineral Oil w Florisil (EH_CU_1D_Total)	N	mg/kg	5	n/t	n/t	n/t	n/t	n/t	n/t	98	33
PCB (ICES 7 congeners)												
Total PCBs (7 congeners)	M	mg/kg	0.03	n/t	n/t	n/t	n/t	n/t	n/t	0.09	< 0.03

Results Summary

Report No.: 22-41365, issue number 1

WAC Analysis								
Elab Ref:	283710					**Landfill Waste Acceptance Criteria Limits***		
Sample Date:						**Inert Waste Landfill**	**Stable Non-reactive Hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Sample ID:	BH07							
Depth (m)	0.2							
Site:	Feralco, Widnes							
Determinand		**Code**	**Units**					
Total Organic Carbon		N	%		2.40	3	5	6
Loss on Ignition		M	%		5.2	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC (EH_CU_1D_Total)		N	mg/kg		33	500	--	--
Total (of 17) PAHs		N	mg/kg		5.0	100	--	--
pH		M			8.3	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate
Eluate Analysis			**10:1**		**10:1**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg**		
			mg/l		**mg/kg**			
Arsenic		N	0.007		0.07	0.5	2	25
Barium		N	0.054		0.54	20	100	300
Cadmium		N	< 0.001		< 0.01	0.04	1	5
Chromium		N	< 0.005		< 0.05	0.5	10	70
Copper		N	< 0.005		< 0.05	2	50	100
Mercury		N	< 0.005		< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005		< 0.05	0.5	10	30
Nickel		N	0.005		< 0.05	0.4	10	40
Lead		N	< 0.001		< 0.05	0.5	10	50
Antimony		N	< 0.005		< 0.05	0.06	0.7	5
Selenium		N	< 0.005		< 0.05	0.1	0.5	7
Zinc		N	0.013		0.13	4	50	200
Chloride		N	< 5		< 50	800	15000	25000
Fluoride		N	< 5		< 10	10	150	500
Sulphate		N	723		7230.00	1000	20000	50000
Total Dissolved Solids		N	857		8570.00	4000	60000	100000
Phenol Index		N	< 0.01		< 0.10	1	-	-
Dissolved Organic Carbon		N	7.440		74.00	500	800	1000
Leach Test Information								
pH		N	7.6					
Conductivity (uS/cm)		N	1280					
Dry mass of test portion (g)			103.000					
Dry Matter (%)			85					
Moisture (%)			17					
Eluent Volume (ml)			997					

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.

Results Summary

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WAC Analysis								
Elab Ref:	283709					**Landfill Waste Acceptance Criteria Limits***		
Sample Date:						**Inert Waste Landfill**	**Stable Non-reactive Hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Sample ID:	BH06							
Depth (m)	0.6							
Site:	Feralco, Widnes							
Determinand		**Code**	**Units**					
Total Organic Carbon		N	%		3.40	3	5	6
Loss on Ignition		M	%		6.2	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		0.09	1	--	--
TPH Total WAC (EH_CU_1D_Total)		N	mg/kg		98	500	--	--
Total (of 17) PAHs		N	mg/kg		6.0	100	--	--
pH		M			8.6	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate
Eluate Analysis			**10:1**		**10:1**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg**		
			mg/l		**mg/kg**			
Arsenic		N	0.007		0.07	0.5	2	25
Barium		N	0.043		0.43	20	100	300
Cadmium		N	< 0.001		< 0.01	0.04	1	5
Chromium		N	< 0.005		< 0.05	0.5	10	70
Copper		N	0.005		0.05	2	50	100
Mercury		N	< 0.005		< 0.01	0.01	0.2	2
Molybdenum		N	0.012		0.12	0.5	10	30
Nickel		N	0.001		< 0.05	0.4	10	40
Lead		N	0.001		< 0.05	0.5	10	50
Antimony		N	0.005		0.05	0.06	0.7	5
Selenium		N	< 0.005		< 0.05	0.1	0.5	7
Zinc		N	< 0.005		< 0.05	4	50	200
Chloride		N	< 5		< 50	800	15000	25000
Fluoride		N	< 5		16.00	10	150	500
Sulphate		N	16		157.00	1000	20000	50000
Total Dissolved Solids		N	96		965.00	4000	60000	100000
Phenol Index		N	< 0.01		< 0.10	1	-	-
Dissolved Organic Carbon		N	9.700		97.00	500	800	1000
Leach Test Information								
pH		N	8.0					
Conductivity (uS/cm)		N	144					
Dry mass of test portion (g)			101.000					
Dry Matter (%)			90					
Moisture (%)			12					
Eluent Volume (ml)			989					

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.

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Results Summary

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Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #)
in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type (%)	Free Fibre Analysis (%)	Total Asbestos (%)
283703	0.70	BH01	Brown Sandy Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
283704	1.30	BH02	Brown Sandy Soil	No asbestos detected	n/t	n/t	n/t	n/t
283705	0.80	BH03	Brown Sandy Soil, Stones, Brick, Clinker	No asbestos detected	n/t	n/t	n/t	n/t
283706	2.30	BH03	Brown Sandy Soil, Stones, Brick, Slate	No asbestos detected	n/t	n/t	n/t	n/t
283707	0.30	BH04	Brown Sandy Soil, Stones, Brick, Clinker	No asbestos detected	n/t	n/t	n/t	n/t
283708	2.80	BH05	Brown Sandy Soil, Stones	No asbestos detected	n/t	n/t	n/t	n/t
283709	0.60	BH06	Brown Sandy Soil, Stones, Glass, Clinker, Brick	No asbestos detected	n/t	n/t	n/t	n/t
283710	0.20	BH07	Brown sandy Soil, Stones, Paper	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

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Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Free cyanide	N	As submitted sample	23/06/2022	107	Colorimetry
Sulphide	N	As submitted sample	21/06/2022	109	Colorimetry
Hexavalent chromium	N	As submitted sample	21/06/2022	110	Colorimetry
Acid Soluble Sulphate	U	Air dried sample	23/06/2022	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	21/06/2022	118	ICPMS
PAH (GC-FID)	M	As submitted sample	23/06/2022	133	GC-FID
Water soluble anions	M	Air dried sample	21/06/2022	172	Ion Chromatography
Low range Aliphatic hydrocarbons soil	N	As submitted sample	23/06/2022	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	23/06/2022	181	GC-MS
Water soluble boron	N	Air dried sample	21/06/2022	202	Colorimetry
TPH CWG soil by gc-gc	M	As submitted sample	20/06/2022	271	
Asbestos identification	U	Air dried sample	23/06/2022	280	Microscopy
Soil organic matter	U	Air dried sample	22/06/2022	BS1377:P3	Titrimetry
Leachate					
Arsenic	N		23/06/2022	301	ICPMS
Cadmium	N		23/06/2022	301	ICPMS
Chromium	N		23/06/2022	301	ICPMS
Lead	N		23/06/2022	301	ICPMS
Nickel	N		23/06/2022	301	ICPMS
Copper	N		23/06/2022	301	ICPMS
Zinc	N		23/06/2022	301	ICPMS
Mercury	N		23/06/2022	301	ICPMS
Selenium	N		23/06/2022	301	ICPMS
Antimony	N		23/06/2022	301	ICPMS
Barium	N		23/06/2022	301	ICPMS
Molybdenum	N		23/06/2022	301	ICPMS
pH Value	N		23/06/2022	113	Electrometric
Electrical Conductivity	N		23/06/2022	136	Probe
Dissolved Organic Carbon	N		23/06/2022	102	TOC analyser
Chloride	N		23/06/2022	131	Ion Chromatography
Fluoride	N		23/06/2022	131	Ion Chromatography
Sulphate	N		23/06/2022	131	Ion Chromatography
Total Dissolved Solids	N		23/06/2022	144	Gravimetric
Phenol index	N		23/06/2022	121	HPLC
WAC Solids analysis	N				
pH	M	Air dried sample	21/06/2022	113	Electrometric
Total Organic Carbon	N	Air dried sample	22/06/2022	210	IR
Loss on Ignition	M	Air dried sample	24/06/2022	129	Gravimetric
Acid Neutralisation Capacity	N	Air dried sample	21/06/2022	NEN 737	Electrometric
Total BTEX	M	As submitted sample	23/06/2022	181	GCMS
Mineral Oil (EH_CU_1D_Total)	N	As submitted sample	24/06/2022	117	GCFID
Total PCBs (7 congeners)	M	Air dried sample	22/06/2022	120	GCMS
Total (of 17) PAHs	N	As submitted sample	24/06/2022	133	GCFID

Tests marked N are not UKAS accredited

Report Information

Report No.: 22-41365, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
	Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
	ELAB are unable to provide an interpretation or opinion on the content of this report.
	The results relate only to the sample received.
	PCB congener results may include any coeluting PCBs
	Uncertainty of measurement for the determinands tested are available upon request
	Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

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	EH_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

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2683

THE ENVIRONMENTAL LABORATORY LTD

Analytical Report Number:	22-42963
Issue:	1
Date of Issue:	07/09/2022
Contact:	Liam Taylor
Customer Details:	CC Geotechnical Ltd Unit 1 & 2 Deltic Place Deltic Way Liverpool MersevsideL33 7BA
Quotation No:	Q22-02618
Order No:	CCG-C-22-13352
Customer Reference:	CCG-C-22-13352
Date Received:	31/08/2022
Date Approved:	07/09/2022
Details:	Feralco Additional Works
Approved by:	

Tim Reeve, Quality Officer

Sample Summary

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Elab No.	Client's Ref.	Date Sampled	Date Scheduled	Description	Deviations
291893	BH08 1.00	25/08/2022	31/08/2022	Sandy silty loam	
291894	BH09 0.50	25/08/2022	31/08/2022	Sandy silty loam	
291895	BH10 0.50	25/08/2022	31/08/2022	Sandy silty loam	
291896	BH11 1.50	25/08/2022	31/08/2022	Sandy silty loam	

Results Summary

Report No.: 22-42963, issue number 1

			ELAB Reference	291893	291894	291895	291896
			Customer Reference				
			Sample ID				
			Sample Type	SOIL	SOIL	SOIL	SOIL
			Sample Location	BH08	BH09	BH10	BH11
			Sample Depth (m)	1.00	0.50	0.50	1.50
			Sampling Date	25/08/2022	25/08/2022	25/08/2022	25/08/2022
Determinand	**Codes**	**Units**	**LOD**				
Soil sample preparation parameters							
Moisture Content	N	%	0.1	18.3	10.5	5.1	13.1
Material removed	N	%	0.1	< 0.1	14.4	19.7	11.1
Description of Inert material removed	N		0	None	Brick/Stones	Stones	Stones
Metals							
Antimony	N	mg/kg	2.5	47.1	15.7	46.0	40.9
Arsenic	M	mg/kg	1	1140	6180	455	550
Cadmium	M	mg/kg	0.5	3.3	2.7	3.5	1.0
Chromium	M	mg/kg	5	34.2	25.9	44.8	27.0
Copper	M	mg/kg	5	1580	2740	2120	451
Lead	M	mg/kg	5	1220	443	1870	476
Mercury	M	mg/kg	0.5	9.7	2.3	3.0	4.4
Molybdenum	N	mg/kg	0.5	13.3	7.1	29.0	20.4
Nickel	M	mg/kg	5	114	42.0	94.1	111
Selenium	M	mg/kg	1	7.8	3.6	5.9	16.0
Zinc	M	mg/kg	5	3140	327	1610	296
Anions							
Water Soluble Sulphate	M	g/l	0.02	0.25	0.04	0.07	1.14
Inorganics							
Free Cyanide	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
Hexavalent Chromium	N	mg/kg	0.8	< 0.8	< 0.8	< 0.8	< 0.8
Total Sulphide	N	mg/kg	2	< 2	< 2	< 2	< 2
Acid Soluble Sulphate (SO4)	U	%	0.02	0.40	0.14	0.60	0.52
Water Soluble Boron	N	mg/kg	0.5	1.3	< 0.5	1.0	1.8
Miscellaneous							
Acid Neutralisation Capacity	N	mol/kg	0.1	< 0.1	< 0.1	< 0.1	< 0.1
Loss on Ignition	M	%	0.01	14.5	10.3	16.2	22.3
pH	M	pH units	0.1	7.6	7.8	7.3	7.0
Soil Organic Matter	U	%	0.1	8.7	6.8	9.7	12
Total Organic Carbon	N	%	0.01	21	13	29	26
Polyaromatic hydrocarbons							
Naphthalene	M	mg/kg	0.1	0.4	0.5	0.4	0.1
Acenaphthylene	M	mg/kg	0.1	0.8	< 0.1	0.1	< 0.1
Acenaphthene	M	mg/kg	0.1	1.2	0.2	0.2	< 0.1
Fluorene	M	mg/kg	0.1	1.5	< 0.1	0.3	< 0.1
Phenanthrene	M	mg/kg	0.1	7.7	1.3	1.1	1.0
Anthracene	M	mg/kg	0.1	2.5	0.2	0.7	< 0.1
Fluoranthene	M	mg/kg	0.1	6.4	0.8	22.2	1.6
Pyrene	M	mg/kg	0.1	5.1	0.6	20.1	1.4
Benzo(a)anthracene	M	mg/kg	0.1	3.9	0.3	4.7	0.6
Chrysene	M	mg/kg	0.1	4.4	0.3	5.1	0.6
Benzo(b)fluoranthene	M	mg/kg	0.1	3.3	0.5	2.1	0.5
Benzo(k)fluoranthene	M	mg/kg	0.1	3.3	0.3	1.8	0.5
Benzo(a)pyrene	M	mg/kg	0.1	3.5	0.3	2.3	0.5
Indeno(1,2,3-cd)pyrene	M	mg/kg	0.1	2.1	0.2	1.1	0.2
Dibenzo(a,h)anthracene	M	mg/kg	0.1	0.6	< 0.1	0.2	< 0.1
Benzo[g,h,i]perylene	M	mg/kg	0.1	1.9	0.2	1.2	0.2
Total PAH(16)	M	mg/kg	0.4	48.8	6.1	63.5	7.4
Total (of 17) PAHs	N	mg/kg	2	50	6	64	7

Results Summary

Report No.: 22-42963, issue number 1

			ELAB Reference	291893	291894	291895	291896
			Customer Reference				
			Sample ID				
			Sample Type	SOIL	SOIL	SOIL	SOIL
			Sample Location	BH08	BH09	BH10	BH11
			Sample Depth (m)	1.00	0.50	0.50	1.50
			Sampling Date	25/08/2022	25/08/2022	25/08/2022	25/08/2022
Determinand	**Codes**	**Units**	**LOD**				
BTEX							
Benzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Toluene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Ethylbenzene	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Xylenes	M	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
MTBE	U	ug/kg	10	< 10.0	< 10.0	< 10.0	< 10.0
Total BTEX	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
TPH CWG							
>C5-C6 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C6-C8 Aliphatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aliphatic (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C12-C16 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	1.3	1.6
>C16-C21 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	3.2	3.0
>C21-C35 Aliphatic (EH_2D_AL)	M	mg/kg	1	1.1	< 1.0	37.1	6.2
>C35-C40 Aliphatic (EH_2D_AL)	M	mg/kg	1	< 1.0	< 1.0	6.5	2.1
Total aliphatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AL)	N	mg/kg	1	3.1	1.7	48.6	13.3
>C5-C7 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C7-C8 Aromatic (HS_1D_MS)	N	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
>C8-C10 Aromatic (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
>C10-C12 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	1.4	1.3
>C12-C16 Aromatic (EH_2D_AR)	M	mg/kg	1	1.5	1.2	7.4	9.9
>C16-C21 Aromatic (EH_2D_AR)	M	mg/kg	1	2.0	1.7	113	45.2
>C21-C35 Aromatic (EH_2D_AR)	M	mg/kg	1	6.0	8.7	266	98.7
>C35-C40 Aromatic (EH_2D_AR)	M	mg/kg	1	< 1.0	< 1.0	16.5	5.4
Total aromatic hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_AR)	N	mg/kg	1	10.4	12.4	405	161
Total petroleum hydrocarbons (>C5 - C40) (HS_1D_MS+EH_2D_Total)	N	mg/kg	1	13.5	14.1	454	174
Total Petroleum Hydrocarbons							
Mineral Oil w Florisil (EH_CU_1D_Total)	N	mg/kg	5	< 5	< 5	11	< 5
PCB (ICES 7 congeners)							
Total PCBs (7 congeners)	M	mg/kg	0.03	< 0.03	< 0.03	< 0.03	< 0.03

Results Summary

Report No.: 22-42963, issue number 1

WAC Analysis								
Elab Ref:	291896					**Landfill Waste Acceptance Criteria Limits***		
Sample Date:	25/08/2022					**Inert Waste Landfill**	**Stable Non-reactive Hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Sample ID:	BH11							
Depth (m)	1.5							
Site:	Feralco Additional Works							
Determinand		**Code**	**Units**					
Total Organic Carbon		N	%		26.00	3	5	6
Loss on Ignition		M	%		22.3	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC (EH_CU_1D_Total)		N	mg/kg		< 5	500	--	--
Total (of 17) PAHs		N	mg/kg		7.0	100	--	--
pH		M			7.0	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate
Eluate Analysis			**10:1**		**10:1**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg**		
			mg/l		**mg/kg**			
Arsenic		N	0.059		0.59	0.5	2	25
Barium		N	0.008		0.08	20	100	300
Cadmium		N	< 0.001		< 0.01	0.04	1	5
Chromium		N	< 0.005		< 0.05	0.5	10	70
Copper		N	< 0.005		< 0.05	2	50	100
Mercury		N	< 0.005		< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005		< 0.05	0.5	10	30
Nickel		N	< 0.001		< 0.05	0.4	10	40
Lead		N	< 0.001		< 0.05	0.5	10	50
Antimony		N	0.021		0.21	0.06	0.7	5
Selenium		N	< 0.005		< 0.05	0.1	0.5	7
Zinc		N	< 0.005		< 0.05	4	50	200
Chloride		N	< 5		< 50	800	15000	25000
Fluoride		N	< 5		27.00	10	150	500
Sulphate		N	19		193.00	1000	20000	50000
Total Dissolved Solids		N	96		958.00	4000	60000	100000
Phenol Index		N	< 0.01		< 0.10	1	-	-
Dissolved Organic Carbon		N	8.120		81.00	500	800	1000
Leach Test Information								
pH		N	7.9					
Conductivity (uS/cm)		N	143					
Dry mass of test portion (g)			101.000					
Dry Matter (%)			84					
Moisture (%)			19					
Eluent Volume (ml)			976					

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.

Results Summary

Report No.: 22-42963, issue number 1

WAC Analysis								
Elab Ref:	291895					**Landfill Waste Acceptance Criteria Limits***		
Sample Date:	25/08/2022					**Inert Waste Landfill**	**Stable Non-reactive Hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Sample ID:	BH10							
Depth (m)	0.5							
Site:	Feralco Additional Works							
Determinand		**Code**	**Units**					
Total Organic Carbon		N	%		29.00	3	5	6
Loss on Ignition		M	%		16.2	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC (EH_CU_1D_Total)		N	mg/kg		11	500	--	--
Total (of 17) PAHs		N	mg/kg		64.0	100	--	--
pH		M			7.3	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate
Eluate Analysis			**10:1**		**10:1**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg**		
			mg/l		**mg/kg**			
Arsenic		N	< 0.005		< 0.05	0.5	2	25
Barium		N	0.091		0.91	20	100	300
Cadmium		N	< 0.001		< 0.01	0.04	1	5
Chromium		N	< 0.005		< 0.05	0.5	10	70
Copper		N	< 0.005		< 0.05	2	50	100
Mercury		N	< 0.005		< 0.01	0.01	0.2	2
Molybdenum		N	< 0.005		< 0.05	0.5	10	30
Nickel		N	0.003		< 0.05	0.4	10	40
Lead		N	< 0.001		< 0.05	0.5	10	50
Antimony		N	< 0.005		< 0.05	0.06	0.7	5
Selenium		N	< 0.005		< 0.05	0.1	0.5	7
Zinc		N	0.037		0.37	4	50	200
Chloride		N	< 5		< 50	800	15000	25000
Fluoride		N	< 5		< 10	10	150	500
Sulphate		N	28		283.00	1000	20000	50000
Total Dissolved Solids		N	55		551.00	4000	60000	100000
Phenol Index		N	< 0.01		< 0.10	1	-	-
Dissolved Organic Carbon		N	8.870		89.00	500	800	1000
Leach Test Information								
pH		N	7.8					
Conductivity (uS/cm)		N	82					
Dry mass of test portion (g)			101.000					
Dry Matter (%)			95					
Moisture (%)			5					
Eluent Volume (ml)			992					

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.

Results Summary

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WAC Analysis								
Elab Ref:	291894					**Landfill Waste Acceptance Criteria Limits***		
Sample Date:	25/08/2022					**Inert Waste Landfill**	**Stable Non-reactive Hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Sample ID:	BH09							
Depth (m)	0.5							
Site:	Feralco Additional Works							
Determinand		**Code**	**Units**					
Total Organic Carbon		N	%		13.00	3	5	6
Loss on Ignition		M	%		10.3	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC (EH_CU_1D_Total)		N	mg/kg		< 5	500	--	--
Total (of 17) PAHs		N	mg/kg		6.0	100	--	--
pH		M			7.8	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate
Eluate Analysis			**10:1**		**10:1**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg**		
			mg/l		**mg/kg**			
Arsenic		N	0.079		0.79	0.5	2	25
Barium		N	0.018		0.18	20	100	300
Cadmium		N	< 0.001		< 0.01	0.04	1	5
Chromium		N	< 0.005		< 0.05	0.5	10	70
Copper		N	< 0.005		< 0.05	2	50	100
Mercury		N	< 0.005		< 0.01	0.01	0.2	2
Molybdenum		N	0.005		0.05	0.5	10	30
Nickel		N	< 0.001		< 0.05	0.4	10	40
Lead		N	< 0.001		< 0.05	0.5	10	50
Antimony		N	< 0.005		< 0.05	0.06	0.7	5
Selenium		N	< 0.005		< 0.05	0.1	0.5	7
Zinc		N	0.006		0.06	4	50	200
Chloride		N	< 5		< 50	800	15000	25000
Fluoride		N	< 5		12.00	10	150	500
Sulphate		N	8		82.10	1000	20000	50000
Total Dissolved Solids		N	32		319.00	4000	60000	100000
Phenol Index		N	< 0.01		< 0.10	1	-	-
Dissolved Organic Carbon		N	8.220		82.00	500	800	1000
Leach Test Information								
pH		N	8.2					
Conductivity (uS/cm)		N	< 50					
Dry mass of test portion (g)			101.000					
Dry Matter (%)			87					
Moisture (%)			15					
Eluent Volume (ml)			982					

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.

Results Summary

Report No.: 22-42963, issue number 1

WAC Analysis								
Elab Ref:	291893					**Landfill Waste Acceptance Criteria Limits***		
Sample Date:	25/08/2022					**Inert Waste Landfill**	**Stable Non-reactive Hazardous waste in non-hazardous Landfill**	**Hazardous Waste Landfill**
Sample ID:	BH08							
Depth (m)	1							
Site:	Feralco Additional Works							
Determinand		**Code**	**Units**					
Total Organic Carbon		N	%		21.00	3	5	6
Loss on Ignition		M	%		14.5	--	--	10
Total BTEX		M	mg/kg		< 0.01	6	--	--
Total PCBs (7 congeners)		M	mg/kg		< 0.03	1	--	--
TPH Total WAC (EH_CU_1D_Total)		N	mg/kg		< 5	500	--	--
Total (of 17) PAHs		N	mg/kg		50.0	100	--	--
pH		M			7.6	--	>6	--
Acid Neutralisation Capacity		N	mol/kg		< 0.1	--	To evaluate	To evaluate
Eluate Analysis			**10:1**		**10:1**	**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg**		
			mg/l		**mg/kg**			
Arsenic		N	0.103		1.03	0.5	2	25
Barium		N	0.010		0.10	20	100	300
Cadmium		N	< 0.001		< 0.01	0.04	1	5
Chromium		N	< 0.005		< 0.05	0.5	10	70
Copper		N	< 0.005		< 0.05	2	50	100
Mercury		N	< 0.005		< 0.01	0.01	0.2	2
Molybdenum		N	0.005		0.05	0.5	10	30
Nickel		N	< 0.001		< 0.05	0.4	10	40
Lead		N	< 0.001		< 0.05	0.5	10	50
Antimony		N	< 0.005		< 0.05	0.06	0.7	5
Selenium		N	< 0.005		< 0.05	0.1	0.5	7
Zinc		N	0.013		0.13	4	50	200
Chloride		N	< 5		< 50	800	15000	25000
Fluoride		N	< 5		36.00	10	150	500
Sulphate		N	15		150.00	1000	20000	50000
Total Dissolved Solids		N	80		803.00	4000	60000	100000
Phenol Index		N	< 0.01		< 0.10	1	-	-
Dissolved Organic Carbon		N	8.500		85.00	500	800	1000
Leach Test Information								
pH		N	8.2					
Conductivity (uS/cm)		N	120					
Dry mass of test portion (g)			101.000					
Dry Matter (%)			74					
Moisture (%)			36					
Eluent Volume (ml)			955					

Results are expressed on a dry weight basis, after correction for moisture content where applicable

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Results Summary

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Asbestos Results

Analytical result only applies to the sample as submitted by the client. Any comments, opinions or interpretations (marked #) in this report are outside UKAS accreditation (Accreditation No2683). They are subjective comments only which must be verified by the client.

Elab No	Depth (m)	Clients Reference	Description of Sample Matrix #	Asbestos Identification	Gravimetric Analysis Total (%)	Gravimetric Analysis by ACM Type	Free Fibre Analysis (%)	Total Asbestos (%)
291893	1.00	BH08	Brown Soil, Stones, Clinker, Brick	No asbestos detected	n/t	n/t	n/t	n/t
291894	0.50	BH09	Brown Soil, Stones, Clinker, Brick	No asbestos detected	n/t	n/t	n/t	n/t
291895	0.50	BH10	Brown Soil, Stones, Clinker, Plant Material	No asbestos detected	n/t	n/t	n/t	n/t
291896	1.50	BH11	Brown Soil, Stones, Clinker, Brick	No asbestos detected	n/t	n/t	n/t	n/t

Method Summary

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Parameter	Codes	Analysis Undertaken On	Date Tested	Method Number	Technique
Soil					
Free cyanide	N	As submitted sample	01/09/2022	107	Colorimetry
Sulphide	N	As submitted sample	01/09/2022	109	Colorimetry
Hexavalent chromium	N	As submitted sample	01/09/2022	110	Colorimetry
Acid Soluble Sulphate	U	Air dried sample	02/09/2022	115	Ion Chromatography
Aqua regia extractable metals	M	Air dried sample	02/09/2022	118	ICPMS
PAH (GC-FID)	M	As submitted sample	01/09/2022	133	GC-FID
Water soluble anions	M	Air dried sample	01/09/2022	172	Ion Chromatography
Low range Aliphatic hydrocarbons soil	N	As submitted sample	05/09/2022	181	GC-MS
Low range Aromatic hydrocarbons soil	N	As submitted sample	05/09/2022	181	GC-MS
Water soluble boron	N	Air dried sample	01/09/2022	202	Colorimetry
TPH CWG soil by gc-gc	M	As submitted sample	31/08/2022	271	
Asbestos identification	U	Air dried sample	06/09/2022	280	Microscopy
Soil organic matter	U	Air dried sample	05/09/2022	BS1377:P3	Titrimetry
Leachate					
Arsenic	N		05/09/2022	301	ICPMS
Cadmium	N		05/09/2022	301	ICPMS
Chromium	N		05/09/2022	301	ICPMS
Lead	N		05/09/2022	301	ICPMS
Nickel	N		05/09/2022	301	ICPMS
Copper	N		05/09/2022	301	ICPMS
Zinc	N		05/09/2022	301	ICPMS
Mercury	N		05/09/2022	301	ICPMS
Selenium	N		05/09/2022	301	ICPMS
Antimony	N		05/09/2022	301	ICPMS
Barium	N		05/09/2022	301	ICPMS
Molybdenum	N		05/09/2022	301	ICPMS
pH Value	N		05/09/2022	113	Electrometric
Electrical Conductivity	N		05/09/2022	136	Probe
Dissolved Organic Carbon	N		05/09/2022	102	TOC analyser
Chloride	N		05/09/2022	131	Ion Chromatography
Fluoride	N		05/09/2022	131	Ion Chromatography
Sulphate	N		05/09/2022	131	Ion Chromatography
Total Dissolved Solids	N		05/09/2022	144	Gravimetric
Phenol index	N		05/09/2022	121	HPLC
WAC Solids analysis	N				
pH	M	Air dried sample	06/09/2022	113	Electrometric
Total Organic Carbon	N	Air dried sample	02/09/2022	210	IR
Loss on Ignition	M	Air dried sample	02/09/2022	129	Gravimetric
Acid Neutralisation Capacity	N	Air dried sample	07/09/2022	NEN 737	Electrometric
Total BTEX	M	As submitted sample	05/09/2022	181	GCMS
Mineral Oil (EH_CU_1D_Total)	N	As submitted sample	01/09/2022	117	GCFID
Total PCBs (7 congeners)	M	Air dried sample	02/09/2022	120	GCMS
Total (of 17) PAHs	N	As submitted sample	02/09/2022	133	GCFID

Tests marked N are not UKAS accredited

Report Information

Report No.: 22-42963, issue number 1

Key

U	hold UKAS accreditation
M	hold MCERTS and UKAS accreditation
N	do not currently hold UKAS accreditation
^	MCERTS accreditation not applicable for sample matrix
*	UKAS accreditation not applicable for sample matrix
S	Subcontracted to approved laboratory UKAS Accredited for the test
SM	Subcontracted to approved laboratory MCERTS/UKAS Accredited for the test
NS	Subcontracted to approved laboratory. UKAS accreditation is not applicable.
I/S	Insufficient Sample
U/S	Unsuitable sample
n/t	Not tested
<	means "less than"
>	means "greater than"
LOD	LOD refers to limit of detection, except in the case of pH soils and pH waters where it means limit of discrimination.
	Soil sample results are expressed on an air dried basis (dried at < 30°C), and are uncorrected for inert material removed.
	ELAB are unable to provide an interpretation or opinion on the content of this report.
	The results relate only to the sample received.
	PCB congener results may include any coeluting PCBs
	Uncertainty of measurement for the determinands tested are available upon request
	Unless otherwise stated, sample information has been provided by the client. This may affect the validity of the results.

Deviation Codes

a	No date of sampling supplied
b	No time of sampling supplied (Waters Only)
c	Sample not received in appropriate containers
d	Sample not received in cooled condition
e	The container has been incorrectly filled
f	Sample age exceeds stability time (sampling to receipt)
g	Sample age exceeds stability time (sampling to analysis)

Where a sample has a deviation code, the applicable test result may be invalid.

Sample Retention and Disposal

All soil samples will be retained for a period of one month
All water samples will be retained for 7 days following the date of the test report
Charges may apply to extended sample storage

TPH Classification - HWOL Acronym System

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	EH_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

APPENDIX E

CONTAMINATION ASSESSMENT DATA

CC GEOTECHNICAL LIMITED
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METALS DATA SUMMARY AND RISK ASSESSMENT SHEET

Job number: CCG-C-22-13093
Site name: Feralco, Widnes

Prepared by: LT
Authorised by: CB
Proposed land use: Commercial/Industrial
SOM % used: 2.5

= Threshold exceeded
= Below Limit of detection
n/t = Not tested

Contaminants			Metals							
			Cadmium	Chromium III	Chromium VI	Copper	Lead	Mercury (elemental)	Nickel	Zinc
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit of Detection			0.5	5.0	0.8	5.0	5.0	0.5	5.0	5.0
Human Health Risk Assessment (GAC)			190	8600	33	68000	2300	58	980	730000
Sample Location	Sample Depth (m)	Sample type								
BH01	0.70	SOIL	1.3	27	< 0.8	638	919	**7**	**81.9**	2140
BH02	1.30	SOIL	< 0.5	29.6	< 0.8	155	85.6	< 0.5	21.5	323
BH03	0.80	SOIL	1.9	21.9	< 0.8	195	236	1.9	38.8	1600
BH03	2.30	SOIL	1	23.3	< 0.8	392	351	1	31.1	453
BH04	0.30	SOIL	**5.2**	**52.3**	< 0.8	**797**	**1730**	2	66.8	**2930**
BH05	2.80	SOIL	< 0.5	42	< 0.8	42.7	51.4	< 0.5	47.6	119
BH06	0.60	SOIL	0.9	37.2	< 0.8	173	302	0.8	39.7	479
BH07	0.20	SOIL	0.6	22.5	< 0.8	102	185	< 0.5	21.6	289
Human Health Risk Assessment (GAC)			190	8600	33	68000	2300	58	980	730000

CC GEOTECHNICAL LIMITED
Consulting Geotechnical and Geoenvironmental Engineers

SEMI-METALS, NON-METALS, INORGANICS AND OTHER DATA SUMMARY AND RISK ASSESSMENT SHEET

Job number: CCG-C-22-13093
Site name: Feralco, Widnes

Prepared by: LT
Authorised by: CB
Proposed land use: Commercial/Industrial
SOM % used: 2.5

= Threshold exceeded
= Below Limit of detection
n/t = Not tested

			Semi/non-metals			Inorganics			Other	
Contaminants			Arsenic	Boron	Selenium	Cyanide (free)	Sulphate (water soluble)	Sulphate (water soluble)	pH (units)	Soil Organic Matter %
Units			mg/kg	mg/kg	mg/kg	mg/kg	g/l	mg/l	units	units
Limit of Detection			1.0	0.5	1.0	1.0	0.02	20.0	0.1	0.1
Human Health Risk Assessment (GAC)			640	240000	12000	120	NA	NA	NA	NA
Sample Location	Sample Depth (m)	Sample type								
BH01	0.70	SOIL	352	1.6	**7.6**	< 1.0	< 1.0	n/t	7.8	3.4
BH02	1.30	SOIL	34.4	**2.5**	< 1.0	< 1.0	5.1	n/t	5.6	1.4
BH03	0.80	SOIL	144	0.7	< 1.0	< 1.0	4.9	n/t	6.6	**5.8**
BH03	2.30	SOIL	**382**	1.8	1.2	< 1.0	< 1.0	n/t	7	2.2
BH04	0.30	SOIL	347	1.5	< 1.0	< 1.0	< 1.0	n/t	7.4	3.3
BH05	2.80	SOIL	26	1.6	< 1.0	< 1.0	192	n/t	8.2	0.4
BH06	0.60	SOIL	37.3	1.2	< 1.0	< 1.0	n/t	n/t	**8.6**	3.3
BH07	0.20	SOIL	21.6	0.9	< 1.0	< 1.0	n/t	n/t	8.3	3.6
Human Health Risk Assessment (GAC)			640	240000	190	120	NA	NA	NA	NA

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Consulting Geotechnical and Geoenvironmental Engineers

SPECIATED PAH'S DATA SUMMARY AND RISK ASSESSMENT SHEET

Job number: CCG-C-22-13093
Site name: Feralco, Widnes

Prepared by: LT
Authorised by: CB
Proposed land use: Commercial/Industrial
SOM % used: 2.5

= Threshold exceeded
= Below Limit of detection
n/t = Not tested

Contaminants			PAH's															
			Acenapthene	Acenapthylene	Anthracene	Benz[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[ghi]perylene	Benzo[k]fluoranthene	Chrysene	Dibenzo[ah]anthracene	fluoranthene	fluorene	Indeno[123-cd]pyrene	Napthalene	Pheanthrene	Pyrene	Total PAH's
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit of Detection			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
Human Health Risk Assessment (GAC)			97000	97000	540000	170	35	44	4000	1200	350	3.6	23000	68000	510	460	22000	54000	NA
Sample Location	Sample Depth (m)	Sample type																	
BH01	0.70	SOIL	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2	< 0.1	< 0.1	0.5
BH02	1.30	SOIL	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.4
BH03	0.80	SOIL	< 0.1	< 0.1	0.2	0.6	0.5	0.5	0.3	0.7	0.6	< 0.1	1	< 0.1	0.3	0.1	0.4	0.8	6.2
BH03	2.30	SOIL	**0.2**	0.1	**0.4**	0.9	0.9	0.8	0.6	**1.3**	1.1	0.1	1.8	0.2	0.6	**0.5**	**1.2**	1.5	12.3
BH04	0.30	SOIL	< 0.1	**0.2**	0.2	**1**	**1.2**	**1.1**	**0.8**	1.2	**1.4**	**0.2**	**2.1**	< 0.1	**0.9**	0.3	1.1	**1.7**	**13.4**
BH05	2.80	SOIL	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.4
BH06	0.60	SOIL	< 0.1	< 0.1	0.1	0.5	0.5	0.5	0.3	0.7	0.6	< 0.1	0.9	< 0.1	0.4	< 0.1	0.3	0.8	5.9
BH07	0.20	SOIL	< 0.1	< 0.1	0.2	0.4	0.4	0.3	0.3	0.4	0.5	< 0.1	0.8	**0.4**	0.3	< 0.1	0.3	0.6	5.3
Human Health Risk Assessment (GAC)			97000	97000	190	170	35	44	4000	1200	350	3.6	23000	68000	510	460	22000	54000	NA

SPECIATED TPH'S DATA SUMMARY AND RISK ASSESSMENT SHEET

Job number: CCG-C-22-13093
Site name: Feralco, Widnes

Prepared by: LT
Authorised by: CB
Proposed land use: Commercial/Industrial
SOM % used: 2.5

= Threshold exceeded
= Below Limit of detection
n/t = Not tested

Contaminants			Speciated TPH's														
			Aromatics								Aliphatics						
			EC5-7	EC7-8	EC8-10	EC10-12	EC12-16	EC16-21	EC21-35	EC35-44	EC5-6	EC6-8	EC8-10	EC10-12	EC12-16	EC16-35	EC35-44	TOTAL TPH'S
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit of Detection			0.01	0.01	1.0	1.0	1.0	1.0	1.0	1.0	0.01	0.01	1.0	1.0	1.0	1.0	1.0	1.0
Human Health Risk Assessment (GAC)			46000	110000	8100	28000	37000	28000	28000	28000	5900	17000	4800	23000	82000	1700000	1700000	NA
Sample Location	Sample Depth (m)	Sample type																
BH01	0.70	SOIL	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	9.8	1.1	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	2.7	< 1.0	15.4
BH02	1.30	SOIL	< 0.01	< 0.01	< 1.0	**7.6**	< 1.0	< 1.0	2.2	< 1.0	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	11.6
BH03	0.80	SOIL	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	4.7	< 1.0	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	6.9
BH03	2.30	SOIL	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	2.4	11	< 1.0	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	3.3	< 1.0	19.9
BH04	0.30	SOIL	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	2.2	13	< 1.0	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	2.9	< 1.0	21.1
BH05	2.80	SOIL	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
BH06	0.60	SOIL	< 0.01	< 0.01	< 1.0	< 1.0	**1**	**4.9**	**79.4**	**26.1**	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	**31.9**	**4.8**	**150**
BH07	0.20	SOIL	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	1.8	45.3	15.3	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	16.9	4.7	86.1
Human Health Risk Assessment (GAC)			46000	110000	190	28000	37000	28000	28000	28000	5900	17000	4800	23000	82000	1700000	1700000	NA

BTEX DATA SUMMARY AND RISK ASSESSMENT SHEET

Job number: CCG-C-22-13093
Site name: Feralco, Widnes

Prepared by: LT
Authorised by: CB
Proposed land use: Commercial/Industrial
SOM % used: 2.5

= Threshold exceeded

= Below Limit of detection

n/t = Not tested

			BTEX			
Contaminants			Benzene	Toluene	Ethylbenzene	Total Xylenes
Units			µg/kg	µg/kg	µg/kg	µg/kg
Limit of Detection			10	10	10	10
Human Health Risk Assessment (GAC)			47000	110000000	13000000	14000000
Sample Location	Sample Depth (m)	Sample type				
BH01	0.70	SOIL	< 10.0	< 10.0	< 10.0	< 10.0
BH02	1.30	SOIL	< 10.0	< 10.0	< 10.0	< 10.0
BH03	0.80	SOIL	< 10.0	< 10.0	< 10.0	< 10.0
BH03	2.30	SOIL	< 10.0	< 10.0	< 10.0	< 10.0
BH04	0.30	SOIL	< 10.0	< 10.0	< 10.0	< 10.0
BH05	2.80	SOIL	< 10.0	< 10.0	< 10.0	< 10.0
BH06	0.60	SOIL	< 10.0	< 10.0	< 10.0	< 10.0
BH07	0.20	SOIL	< 10.0	< 10.0	< 10.0	< 10.0
Human Health Risk Assessment (GAC)			47000	190	13000000	14000000

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METALS DATA SUMMARY AND RISK ASSESSMENT SHEET

Job number: CCG-C-22-13352
Site name: Feralco, Widnes

Prepared by: LT
Authorised by: CB
Proposed land use: Commercial/Industrial
SOM % used: 2.5

= Threshold exceeded

= Below Limit of detection

n/t = Not tested

			Metals							
Contaminants			Cadmium	Chromium III	Chromium VI	Copper	Lead	Mercury (elemental)	Nickel	Zinc
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit of Detection			0.5	5.0	0.8	5.0	5.0	0.5	5.0	5.0
Human Health Risk Assessment (GAC)			190	8600	33	68000	2300	58	980	730000
Sample Location	Sample Depth (m)	Sample type								
BH08	1.00	SOIL	3.3	34.2	< 0.8	1580	1220	**9.7**	**114**	**3140**
BH09	0.50	SOIL	2.7	25.9	< 0.8	**2740**	443	2.3	42	327
BH10	0.50	SOIL	**3.5**	**44.8**	< 0.8	2120	**1870**	3	94.1	1610
BH11	1.50	SOIL	1	27	< 0.8	451	476	4.4	111	296
Human Health Risk Assessment (GAC)			190	8600	33	68000	2300	58	980	730000

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Consulting Geotechnical and Geoenvironmental Engineers

SEMI-METALS, NON-METALS, INORGANICS AND OTHER DATA SUMMARY AND RISK ASSESSMENT SHEET

Job number: CCG-C-22-13352
Site name: Feralco, Widnes

Prepared by: LT
Authorised by: CB
Proposed land use: Commercial/Industrial
SOM % used: 2.5

= Threshold exceeded
= Below Limit of detection
n/t = Not tested

			Semi/non-metals			Inorganics			Other	
Contaminants			Arsenic	Boron	Selenium	Cyanide (free)	Sulphate (water soluble)	Sulphate (water soluble)	pH (units)	Soil Organic Matter %
Units			mg/kg	mg/kg	mg/kg	mg/kg	g/l	mg/l	units	units
Limit of Detection			1.0	0.5	1.0	1.0	0.02	20.0	0.1	0.1
Human Health Risk Assessment (GAC)			640	240000	12000	120	NA	NA	NA	NA
Sample Location	Sample Depth (m)	Sample type								
BH08	1.00	SOIL	1140	1.3	7.8	< 1.0	< 1.0	n/t	7.6	8.7
BH09	0.50	SOIL	6180	< 0.5	3.6	< 1.0	5.1	n/t	**7.8**	6.8
BH10	0.50	SOIL	455	1	5.9	< 1.0	4.9	n/t	7.3	9.7
BH11	1.50	SOIL	550	**1.8**	**16**	< 1.0	< 1.0	n/t	7	**12**
Human Health Risk Assessment (GAC)			640	240000	190	120	NA	NA	NA	NA

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Consulting Geotechnical and Geoenvironmental Engineers

SPECIATED PAH'S DATA SUMMARY AND RISK ASSESSMENT SHEET

Job number: CCG-C-22-13352
Site name: Feralco, Widnes

Prepared by: LT
Authorised by: CB
Proposed land use: Commercial/Industrial
SOM % used: 2.5

= Threshold exceeded
= Below Limit of detection
n/t = Not tested

Contaminants			PAH's															
			Acenapthene	Acenapthylene	Anthracene	Benz[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[ghi]perylene	Benzo[k]fluoranthene	Chrysene	Dibenzo[ah]anthracene	fluoranthene	fluorene	Indeno[123-cd]pyrene	Napthalene	Pheanthrene	Pyrene	Total PAH's
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit of Detection			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4
Human Health Risk Assessment (GAC)			97000	97000	540000	170	35	44	4000	1200	350	3.6	23000	68000	510	460	22000	54000	NA
Sample Location	Sample Depth (m)	Sample type																	
BH08	1.00	SOIL	**1.2**	**0.8**	**2.5**	3.9	**3.5**	**3.3**	**1.9**	**3.3**	4.4	**0.6**	6.4	**1.5**	**2.1**	0.4	**7.7**	5.1	48.8
BH09	0.50	SOIL	0.2	< 0.1	0.2	0.3	0.3	0.5	0.2	0.3	0.3	< 0.1	0.8	< 0.1	0.2	**0.5**	1.3	0.6	6.1
BH10	0.50	SOIL	0.2	0.1	0.7	**4.7**	2.3	2.1	1.2	1.8	**5.1**	0.2	**22.2**	0.3	1.1	0.4	1.1	**20.1**	**63.5**
BH11	1.50	SOIL	< 0.1	< 0.1	< 0.1	0.6	0.5	0.5	0.2	0.5	0.6	< 0.1	1.6	< 0.1	0.2	0.1	1	1.4	7.4
Human Health Risk Assessment (GAC)			97000	97000	190	170	35	44	4000	1200	350	3.6	23000	68000	510	460	22000	54000	NA

CC GEOTECHNICAL LIMITED
Consulting Geotechnical and Geoenvironmental Engineers

SPECIATED TPH'S DATA SUMMARY AND RISK ASSESSMENT SHEET

Job number: CCG-C-22-13352
Site name: Feralco, Widnes

Prepared by: LT
Authorised by: CB
Proposed land use: Commercial/Industrial
SOM % used: 2.5

= Threshold exceeded
= Below Limit of detection
n/t = Not tested

			Speciated TPH's														
			Aromatics							Aliphatics							
Contaminants			EC5-7	EC7-8	EC8-10	EC10-12	EC12-16	EC16-21	EC21-35	EC35-44	EC5-6	EC6-8	EC8-10	EC10-12	EC12-16	EC16-35	EC35-44	TOTAL TPH'S
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit of Detection			0.01	0.01	1.0	1.0	1.0	1.0	1.0	1.0	0.01	0.01	1.0	1.0	1.0	1.0	1.0	1.0
Human Health Risk Assessment (GAC)			46000	110000	8100	28000	37000	28000	28000	28000	5900	17000	4800	23000	82000	1700000	1700000	NA
Sample Location	Sample Depth (m)	Sample type																
BH08	1.00	SOIL	< 0.01	< 0.01	< 1.0	< 1.0	1.5	2	6	< 1.0	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	1.1	< 1.0	13.5
BH09	0.50	SOIL	< 0.01	< 0.01	< 1.0	< 1.0	1.2	1.7	8.7	< 1.0	< 0.01	< 0.01	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	14.1
BH10	0.50	SOIL	< 0.01	< 0.01	< 1.0	**1.4**	7.4	**113**	**266**	**16.5**	< 0.01	< 0.01	< 1.0	< 1.0	1.3	**40.3**	**6.5**	**454**
BH11	1.50	SOIL	< 0.01	< 0.01	< 1.0	1.3	**9.9**	45.2	98.7	5.4	< 0.01	< 0.01	< 1.0	< 1.0	**1.6**	9.2	2.1	174
Human Health Risk Assessment (GAC)			46000	110000	190	28000	37000	28000	28000	28000	5900	17000	4800	23000	82000	1700000	1700000	NA

CC GEOTECHNICAL LIMITED
Consulting Geotechnical and Geoenvironmental Engineers

BTEX DATA SUMMARY AND RISK ASSESSMENT SHEET

Job number: CCG-C-22-13352
Site name: Feralco, Widnes

Prepared by: LT
Authorised by: CB
Proposed land use: Commercial/Industrial
SOM % used: 2.5

= Threshold exceeded
= Below Limit of detection
n/t = Not tested

			BTEX			
Contaminants			**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**
Units			µg/kg	µg/kg	µg/kg	µg/kg
Limit of Detection			10	10	10	10
Human Health Risk Assessment (GAC)			47000	110000000	13000000	14000000
Sample Location	Sample Depth (m)	Sample type				
BH08	1.00	SOIL	< 10.0	< 10.0	< 10.0	< 10.0
BH09	0.50	SOIL	< 10.0	< 10.0	< 10.0	< 10.0
BH10	0.50	SOIL	< 10.0	< 10.0	< 10.0	< 10.0
BH11	1.50	SOIL	< 10.0	< 10.0	< 10.0	< 10.0
Human Health Risk Assessment (GAC)			47000	190	13000000	14000000

APPENDIX F

WASTE CLASSIFICATION REPORTS

HazWasteOnline™

Waste Classification Report

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

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

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

IRCSN-ZPN5R-SPBDS

Job name

Feralco, Widnes

Description/Comments

Project

Site

Classified by

Name:
Tony Gerrard
Company:
CC Geotechnical Ltd
Date:
01 Jul 2022 15:20 GMT
Telephone:
0151 545 2750

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

HazWasteOnline™ Certification: -

Course	Date
Hazardous Waste Classification	-

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	BH01	0.70	Hazardous	HP 14	2
2	BH02	1.30	Non Hazardous		7
3	BH03	0.80	Non Hazardous		12
4	BH03[2]	2.30	Non Hazardous		17
5	BH04	0.30	Hazardous	HP 7, HP 14	22
6	BH05	2.80	Non Hazardous		27
7	BH06	0.60	Non Hazardous		31
8	BH07	0.20	Non Hazardous		36

Related documents

#	Name	Description
1	CCG SOIL A 2020	waste stream template used to create this Job

Report

Created by: Tony Gerrard
Created date: 01 Jul 2022 15:20 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	41
Appendix B: Rationale for selection of metal species	44
Appendix C: Version	45

Classification of sample: BH01

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

Sample details

Sample name:
BH01
Sample Depth:
0.70 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

zinc oxide: (compound conc.: 0.266%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		352 mg/kg	1.32	464.755 mg/kg	0.0465 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.3 mg/kg	1.142	1.485 mg/kg	0.000149 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		27 mg/kg	1.462	39.462 mg/kg	0.00395 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		638 mg/kg	1.126	718.317 mg/kg	0.0718 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	919 mg/kg	1.56	1433.47 mg/kg	0.0919 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		7 mg/kg	1.353	9.474 mg/kg	0.000947 %		
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		81.9 mg/kg	2.976	243.756 mg/kg	0.0244 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				7.6 mg/kg	1.405	10.678 mg/kg	0.00107 %		
9	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		2140 mg/kg	1.245	2663.688 mg/kg	0.266 %		
10	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
11	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8 mg/kg	1.923	<1.538 mg/kg	<0.000154 %		<LOD
12	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.6 mg/kg	3.22	5.152 mg/kg	0.000515 %		

#		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		pH				7.8	pH		7.8	pH	7.8 pH		
				PH									
14		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
15		naphthalene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
32		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
33		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
34		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<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]									
35		TPH (C6 to C40) petroleum group				15.4	mg/kg		15.4	mg/kg	0.00154 %		
				TPH									
36		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
37		polychlorobiphenyls; PCB				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
38		asbestos				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		650-013-00-6	- - - - - - -	12001-28-4 132207-32-0 12172-73-5 77536-66-4 77536-68-6									

#		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									
				77536-67-5 12001-29-5									
39		antimony { antimony trioxide }				<0.1	mg/kg	1.197	<0.12	mg/kg	<0.000012 %		<LOD
		051-005-00-X	215-175-0	1309-64-4									
40		beryllium { beryllium oxide }				<0.1	mg/kg	2.775	<0.278	mg/kg	<0.0000278 %		<LOD
		004-003-00-8	215-133-1	1304-56-9									
41		manganese { manganese sulphate }				<0.1	mg/kg	2.749	<0.275	mg/kg	<0.0000275 %		<LOD
		025-003-00-4	232-089-9	7785-87-7									
42		molybdenum { molybdenum(VI) oxide }				<0.1	mg/kg	1.5	<0.15	mg/kg	<0.000015 %		<LOD
		042-001-00-9	215-204-7	1313-27-5									
43		1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			203-458-1, 200-863-5	107-06-2, 75-34-3									
44		tetrachloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
45		carbon tetrachloride; tetrachloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
46		trichloroethylene; trichloroethene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
47		vinyl chloride; chloroethylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
48		DDT (ISO); clofenotane (INN); dicophane; 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane; dichlorodiphenyltrichloroethane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-045-00-7	200-024-3	50-29-3									
49		chlordane (ISO); 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindan				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-047-00-8	200-349-0	57-74-9									
50		hexachlorocyclohexanes, including lindane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<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									
51		dieldrin (ISO)				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-049-00-9	200-484-5	60-57-1									
52		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				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-051-00-X	200-775-7	72-20-8									
53		heptachlor (ISO); 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-046-00-2	200-962-3	76-44-8									
54		hexachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
55		chlordecone (ISO); perchloropentacyclo[5,3,0,02,6,03,9,04,8]decan-5-one; decachloropentacyclo[5,2,1,02,6,03,9,05,8]decan-4-one				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		606-019-00-6	205-601-3	143-50-0									
56		aldrin (ISO)				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-048-00-3	206-215-8	309-00-2									
57		pentachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-074-00-5	210-172-0	608-93-5									
58		dodecachloropentacyclo[5.2.1.02,6.03,9.05,8]decane; mirex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-077-00-1	219-196-6	2385-85-5									
59		camphechlor (ISO); toxaphene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-044-00-1	232-283-3	8001-35-2									
60		hexabromobiphenyl				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			252-994-2	36355-01-8									
61		2,3,7,8-TeCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
			217-122-7	1746-01-6									

#		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									
62		1,2,3,7,8-PeCDD		40321-76-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
63		1,2,3,4,7,8-HxCDD		39227-28-6		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
64		1,2,3,6,7,8-HxCDD		57653-85-7		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
65		1,2,3,7,8,9-HxCDD		19408-74-3		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
66		1,2,3,4,6,7,8-HpCDD		35822-46-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
67		OCDD		3268-87-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
68		2,3,7,8-TeCDF		51207-31-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
69		1,2,3,7,8-PeCDF		57117-41-6		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
70		2,3,4,7,8-PeCDF		57117-31-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
71		1,2,3,4,7,8-HxCDF		70648-26-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
72		1,2,3,6,7,8-HxCDF		57117-44-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
73		1,2,3,7,8,9-HxCDF		72918-21-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
74		2,3,4,6,7,8-HxCDF		60851-34-5		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
75		1,2,3,4,6,7,8-HpCDF		67562-39-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
76		1,2,3,4,7,8,9-HpCDF		55673-89-7		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
77		OCDF		39001-02-0		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
78		petrol (gasoline) petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
79		diesel petroleum group		68334-30-5, 68476-34-6, 94114-59-7, 1159170-26-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
80		heavy/residual fuel oils petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
81		crude oils petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
82		kerosine petroleum group including kerosine (petroleum); kerosine (petroleum) hydrosulphurised; kerosine (petroleum) sweetened	232-366-4; 265-184-9; 294-799-5	8008-20-6; 64742-81-0; 91770-15-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
										Total:	0.51 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Concentrations too low to be considered flammable risk

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00154%)

Classification of sample: BH02

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

Sample details

Sample name:
BH02
Sample Depth:
1.30 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		34.4	mg/kg	1.32	45.419	mg/kg	0.00454 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		29.6	mg/kg	1.462	43.262	mg/kg	0.00433 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		155	mg/kg	1.126	174.513	mg/kg	0.0175 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	85.6	mg/kg	1.56	133.52	mg/kg	0.00856 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21.5	mg/kg	2.976	63.99	mg/kg	0.0064 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
9	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		323	mg/kg	1.245	402.043	mg/kg	0.0402 %		
10	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
11	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8	mg/kg	1.923	<1.538	mg/kg	<0.000154 %		<LOD
12	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		2.5	mg/kg	3.22	8.05	mg/kg	0.000805 %		
13	pH			PH		5.6	pH		5.6	pH	5.6 pH		
14	phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
15	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<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									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0									
22		pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0									
23		benzo[a]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2									
31		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
32		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
33		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
34		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<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]									
35		TPH (C6 to C40) petroleum group				11.6	mg/kg		11.6	mg/kg	0.00116 %		
				TPH									
36		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
37		polychlorobiphenyls; PCB				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
38		asbestos				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<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									
39		antimony { antimony trioxide }				<0.1	mg/kg	1.197	<0.12	mg/kg	<0.000012 %		<LOD
		051-005-00-X	215-175-0	1309-64-4									
40		beryllium { beryllium oxide }				<0.1	mg/kg	2.775	<0.278	mg/kg	<0.0000278 %		<LOD
		004-003-00-8	215-133-1	1304-56-9									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		manganese { manganese sulphate }				<0.1	mg/kg	2.749	<0.275	mg/kg	<0.0000275 %		<LOD
		025-003-00-4	232-089-9	7785-87-7									
42		molybdenum { molybdenum(VI) oxide }				<0.1	mg/kg	1.5	<0.15	mg/kg	<0.000015 %		<LOD
		042-001-00-9	215-204-7	1313-27-5									
43		1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			203-458-1, 200-863-5	107-06-2, 75-34-3									
44		tetrachloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
45		carbon tetrachloride; tetrachloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
46		trichloroethylene; trichloroethene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
47		vinyl chloride; chloroethylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
48		DDT (ISO); clofenotane (INN); dicophane; 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane; dichlorodiphenyltrichloroethane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-045-00-7	200-024-3	50-29-3									
49		chlordane (ISO); 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindan				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-047-00-8	200-349-0	57-74-9									
50		hexachlorocyclohexanes, including lindane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<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									
51		dieldrin (ISO)				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-049-00-9	200-484-5	60-57-1									
52		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				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-051-00-X	200-775-7	72-20-8									
53		heptachlor (ISO); 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-046-00-2	200-962-3	76-44-8									
54		hexachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
55		chlordecone (ISO); perchloropentacyclo[5,3,0,02,6,03,9,04,8]decan-5-one; decachloropentacyclo[5,2,1,02,6,03,9,05,8]decan-4-one				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		606-019-00-6	205-601-3	143-50-0									
56		aldrin (ISO)				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-048-00-3	206-215-8	309-00-2									
57		pentachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-074-00-5	210-172-0	608-93-5									
58		dodecachloropentacyclo[5.2.1.02,6.03,9.05,8]decane; mirex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-077-00-1	219-196-6	2385-85-5									
59		camphechlor (ISO); toxaphene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-044-00-1	232-283-3	8001-35-2									
60		hexabromobiphenyl				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			252-994-2	36355-01-8									
61		2,3,7,8-TeCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
			217-122-7	1746-01-6									
62		1,2,3,7,8-PeCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				40321-76-4									
63		1,2,3,4,7,8-HxCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				39227-28-6									
64		1,2,3,6,7,8-HxCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				57653-85-7									

#		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									
65		1,2,3,7,8,9-HxCDD		19408-74-3		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
66		1,2,3,4,6,7,8-HpCDD		35822-46-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
67		OCDD		3268-87-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
68		2,3,7,8-TeCDF		51207-31-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
69		1,2,3,7,8-PeCDF		57117-41-6		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
70		2,3,4,7,8-PeCDF		57117-31-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
71		1,2,3,4,7,8-HxCDF		70648-26-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
72		1,2,3,6,7,8-HxCDF		57117-44-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
73		1,2,3,7,8,9-HxCDF		72918-21-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
74		2,3,4,6,7,8-HxCDF		60851-34-5		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
75		1,2,3,4,6,7,8-HpCDF		67562-39-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
76		1,2,3,4,7,8,9-HpCDF		55673-89-7		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
77		OCDF		39001-02-0		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
78		petrol (gasoline) petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
79		diesel petroleum group		68334-30-5, 68476-34-6, 94114-59-7, 1159170-26-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
80		heavy/residual fuel oils petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
81		crude oils petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
82		kerosine petroleum group including kerosine (petroleum); kerosine (petroleum) hydrosulphurised; kerosine (petroleum) sweetened	232-366-4; 265-184-9; 294-799-5	8008-20-6; 64742-81-0; 91770-15-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
										Total:	0.0845 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Concentrations too low to be considered flammable risk

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00116%)

Classification of sample: BH03

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

Sample details

Sample name:
BH03
Sample Depth:
0.80 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		144	mg/kg	1.32	190.127	mg/kg	0.019 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1.9	mg/kg	1.142	2.17	mg/kg	0.000217 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		21.9	mg/kg	1.462	32.008	mg/kg	0.0032 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		195	mg/kg	1.126	219.548	mg/kg	0.022 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	236	mg/kg	1.56	368.116	mg/kg	0.0236 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1.9	mg/kg	1.353	2.572	mg/kg	0.000257 %		
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		38.8	mg/kg	2.976	115.479	mg/kg	0.0115 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
9	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		1600	mg/kg	1.245	1991.542	mg/kg	0.199 %		
10	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
11	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8	mg/kg	1.923	<1.538	mg/kg	<0.000154 %		<LOD
12	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.7	mg/kg	3.22	2.254	mg/kg	0.000225 %		
13	pH			PH		6.6	pH		6.6	pH	6.6 pH		
14	phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1	mg/kg		0.1	mg/kg	0.00001 %		

#		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		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			201-581-5	85-01-8									
20		anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-371-1	120-12-7									
21		fluoranthene				1	mg/kg		1	mg/kg	0.0001 %		
			205-912-4	206-44-0									
22		pyrene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-883-8	191-24-2									
31		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
32		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
33		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
34		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<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]									
35		TPH (C6 to C40) petroleum group				6.9	mg/kg		6.9	mg/kg	0.00069 %		
				TPH									
36		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
37		polychlorobiphenyls; PCB				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
38		asbestos				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<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									
39		antimony { antimony trioxide }				<0.1	mg/kg	1.197	<0.12	mg/kg	<0.000012 %		<LOD
		051-005-00-X	215-175-0	1309-64-4									
40		beryllium { beryllium oxide }				<0.1	mg/kg	2.775	<0.278	mg/kg	<0.0000278 %		<LOD
		004-003-00-8	215-133-1	1304-56-9									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		manganese { manganese sulphate }				<0.1	mg/kg	2.749	<0.275	mg/kg	<0.0000275 %		<LOD
		025-003-00-4	232-089-9	7785-87-7									
42		molybdenum { molybdenum(VI) oxide }				<0.1	mg/kg	1.5	<0.15	mg/kg	<0.000015 %		<LOD
		042-001-00-9	215-204-7	1313-27-5									
43		1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			203-458-1, 200-863-5	107-06-2, 75-34-3									
44		tetrachloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
45		carbon tetrachloride; tetrachloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
46		trichloroethylene; trichloroethene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
47		vinyl chloride; chloroethylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
48		DDT (ISO); clofenotane (INN); dicophane; 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane; dichlorodiphenyltrichloroethane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-045-00-7	200-024-3	50-29-3									
49		chlordane (ISO); 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindan				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-047-00-8	200-349-0	57-74-9									
50		hexachlorocyclohexanes, including lindane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<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									
51		dieldrin (ISO)				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-049-00-9	200-484-5	60-57-1									
52		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				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-051-00-X	200-775-7	72-20-8									
53		heptachlor (ISO); 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-046-00-2	200-962-3	76-44-8									
54		hexachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
55		chlordecone (ISO); perchloropentacyclo[5,3,0,02,6,03,9,04,8]decan-5-one; decachloropentacyclo[5,2,1,02,6,03,9,05,8]decan-4-one				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		606-019-00-6	205-601-3	143-50-0									
56		aldrin (ISO)				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-048-00-3	206-215-8	309-00-2									
57		pentachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-074-00-5	210-172-0	608-93-5									
58		dodecachloropentacyclo[5.2.1.02,6.03,9.05,8]decane; mirex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-077-00-1	219-196-6	2385-85-5									
59		camphechlor (ISO); toxaphene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-044-00-1	232-283-3	8001-35-2									
60		hexabromobiphenyl				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			252-994-2	36355-01-8									
61		2,3,7,8-TeCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
			217-122-7	1746-01-6									
62		1,2,3,7,8-PeCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				40321-76-4									
63		1,2,3,4,7,8-HxCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				39227-28-6									
64		1,2,3,6,7,8-HxCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				57653-85-7									

#		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									
65		1,2,3,7,8,9-HxCDD		19408-74-3		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
66		1,2,3,4,6,7,8-HpCDD		35822-46-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
67		OCDD		3268-87-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
68		2,3,7,8-TeCDF		51207-31-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
69		1,2,3,7,8-PeCDF		57117-41-6		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
70		2,3,4,7,8-PeCDF		57117-31-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
71		1,2,3,4,7,8-HxCDF		70648-26-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
72		1,2,3,6,7,8-HxCDF		57117-44-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
73		1,2,3,7,8,9-HxCDF		72918-21-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
74		2,3,4,6,7,8-HxCDF		60851-34-5		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
75		1,2,3,4,6,7,8-HpCDF		67562-39-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
76		1,2,3,4,7,8,9-HpCDF		55673-89-7		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
77		OCDF		39001-02-0		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
78		petrol (gasoline) petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
79		diesel petroleum group		68334-30-5, 68476-34-6, 94114-59-7, 1159170-26-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
80		heavy/residual fuel oils petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
81		crude oils petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
82		kerosine petroleum group including kerosine (petroleum); kerosine (petroleum) hydrosulphurised; kerosine (petroleum) sweetened	232-366-4; 265-184-9; 294-799-5	8008-20-6; 64742-81-0; 91770-15-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
										Total:	0.281 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Concentrations too low to be considered flammable risk

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00069%)

Classification of sample: BH03[2]

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

Sample details

Sample name:
BH03[2]
Sample Depth:
2.30 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		382	mg/kg	1.32	504.364	mg/kg	0.0504 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1	mg/kg	1.142	1.142	mg/kg	0.000114 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		23.3	mg/kg	1.462	34.054	mg/kg	0.00341 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		392	mg/kg	1.126	441.348	mg/kg	0.0441 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	351	mg/kg	1.56	547.495	mg/kg	0.0351 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		1	mg/kg	1.353	1.353	mg/kg	0.000135 %		
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		31.1	mg/kg	2.976	92.562	mg/kg	0.00926 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				1.2	mg/kg	1.405	1.686	mg/kg	0.000169 %		
9	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		453	mg/kg	1.245	563.855	mg/kg	0.0564 %		
10	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
11	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8	mg/kg	1.923	<1.538	mg/kg	<0.000154 %		<**LOD**
12	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.8	mg/kg	3.22	5.796	mg/kg	0.00058 %		
13	pH			PH		7	pH		7	pH	7pH		
14	phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.5	mg/kg		0.5	mg/kg	0.00005 %		

#		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		acenaphthylene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			205-917-1	208-96-8									
17		acenaphthene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-469-6	83-32-9									
18		fluorene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			201-695-5	86-73-7									
19		phenanthrene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
			201-581-5	85-01-8									
20		anthracene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			204-371-1	120-12-7									
21		fluoranthene				1.8	mg/kg		1.8	mg/kg	0.00018 %		
			205-912-4	206-44-0									
22		pyrene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				1.1	mg/kg		1.1	mg/kg	0.00011 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				1.3	mg/kg		1.3	mg/kg	0.00013 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
			205-883-8	191-24-2									
31		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-020-00-8	200-753-7	71-43-2									
32		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-021-00-3	203-625-9	108-88-3									
33		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		601-023-00-4	202-849-4	100-41-4									
34		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**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]									
35		TPH (C6 to C40) petroleum group				19.9	mg/kg		19.9	mg/kg	0.00199 %		
				TPH									
36		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
37		polychlorobiphenyls; PCB				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
38		asbestos				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**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									
39		antimony { antimony trioxide }				<0.1	mg/kg	1.197	<0.12	mg/kg	<0.000012 %		<**LOD**
		051-005-00-X	215-175-0	1309-64-4									
40		beryllium { beryllium oxide }				<0.1	mg/kg	2.775	<0.278	mg/kg	<0.0000278 %		<**LOD**
		004-003-00-8	215-133-1	1304-56-9									

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
41		manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		<0.1	mg/kg	2.749	<0.275	mg/kg	<0.0000275 %		<**LOD**
42		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<0.1	mg/kg	1.5	<0.15	mg/kg	<0.000015 %		<**LOD**
43		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
44		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
45		carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
46		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
47		vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
48		DDT (ISO); clofenotane (INN); dicophane; 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane; dichlorodiphenyltrichloroethane	602-045-00-7	200-024-3	50-29-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
49		chlordane (ISO); 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindan	602-047-00-8	200-349-0	57-74-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
50		hexachlorocyclohexanes, including lindane	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		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
51		dieldrin (ISO)	602-049-00-9	200-484-5	60-57-1		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
52		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	602-051-00-X	200-775-7	72-20-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
53		heptachlor (ISO); 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene	602-046-00-2	200-962-3	76-44-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
54		hexachlorobenzene	602-065-00-6	204-273-9	118-74-1		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
55		chlordecone (ISO); perchloropentacyclo[5,3,0,02,6,03,9,04,8]decan-5-one; decachloropentacyclo[5,2,1,02,6,03,9,05,8]decan-4-one	606-019-00-6	205-601-3	143-50-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
56		aldrin (ISO)	602-048-00-3	206-215-8	309-00-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
57		pentachlorobenzene	602-074-00-5	210-172-0	608-93-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
58		dodecachloropentacyclo[5.2.1.02,6.03,9.05,8]decane; mirex	602-077-00-1	219-196-6	2385-85-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
59		camphechlor (ISO); toxaphene	602-044-00-1	232-283-3	8001-35-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
60		hexabromobiphenyl		252-994-2	36355-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
61		2,3,7,8-TeCDD		217-122-7	1746-01-6		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
62		1,2,3,7,8-PeCDD			40321-76-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
63		1,2,3,4,7,8-HxCDD			39227-28-6		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
64		1,2,3,6,7,8-HxCDD			57653-85-7		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**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									
65		1,2,3,7,8,9-HxCDD		19408-74-3		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
66		1,2,3,4,6,7,8-HpCDD		35822-46-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
67		OCDD		3268-87-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
68		2,3,7,8-TeCDF		51207-31-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
69		1,2,3,7,8-PeCDF		57117-41-6		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
70		2,3,4,7,8-PeCDF		57117-31-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
71		1,2,3,4,7,8-HxCDF		70648-26-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
72		1,2,3,6,7,8-HxCDF		57117-44-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
73		1,2,3,7,8,9-HxCDF		72918-21-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
74		2,3,4,6,7,8-HxCDF		60851-34-5		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
75		1,2,3,4,6,7,8-HpCDF		67562-39-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
76		1,2,3,4,7,8,9-HpCDF		55673-89-7		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
77		OCDF		39001-02-0		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
78		petrol (gasoline) petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
79		diesel petroleum group		68334-30-5, 68476-34-6, 94114-59-7, 1159170-26-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
80		heavy/residual fuel oils petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
81		crude oils petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
82		kerosine petroleum group including kerosine (petroleum); kerosine (petroleum) hydrosulphurised; kerosine (petroleum) sweetened	232-366-4; 265-184-9; 294-799-5	8008-20-6; 64742-81-0; 91770-15-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
										Total:	0.204 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Concentrations too low to be considered flammable risk

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00199%)

Classification of sample: BH04

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

Sample details

Sample name:
BH04
Sample Depth:
0.30 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

lead chromate: (Note 1 conc.: 0.173%)

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

Hazard Statements hit:

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

Because of determinands:

lead chromate: (Note 1 conc.: 0.173%)
zinc oxide: (compound conc.: 0.365%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		347 mg/kg	1.32	458.153 mg/kg	0.0458 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		5.2 mg/kg	1.142	5.94 mg/kg	0.000594 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		52.3 mg/kg	1.462	76.439 mg/kg	0.00764 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		797 mg/kg	1.126	897.333 mg/kg	0.0897 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	1730 mg/kg	1.56	2698.48 mg/kg	0.173 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		2 mg/kg	1.353	2.707 mg/kg	0.000271 %		
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		66.8 mg/kg	2.976	198.814 mg/kg	0.0199 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
9	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		2930 mg/kg	1.245	3647.012 mg/kg	0.365 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
10		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
11		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8	mg/kg	1.923	<1.538	mg/kg	<0.000154 %		<**LOD**
12		boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.5	mg/kg	3.22	4.83	mg/kg	0.000483 %		
13		pH			PH		7.4	pH		7.4	pH	7.4 pH		
14		phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
15		naphthalene	601-052-00-2	202-049-5	91-20-3		0.3	mg/kg		0.3	mg/kg	0.00003 %		
16		acenaphthylene		205-917-1	208-96-8		0.2	mg/kg		0.2	mg/kg	0.00002 %		
17		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
18		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
19		phenanthrene		201-581-5	85-01-8		1.1	mg/kg		1.1	mg/kg	0.00011 %		
20		anthracene		204-371-1	120-12-7		0.2	mg/kg		0.2	mg/kg	0.00002 %		
21		fluoranthene		205-912-4	206-44-0		2.1	mg/kg		2.1	mg/kg	0.00021 %		
22		pyrene		204-927-3	129-00-0		1.7	mg/kg		1.7	mg/kg	0.00017 %		
23		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1	mg/kg		1	mg/kg	0.0001 %		
24		chrysene	601-048-00-0	205-923-4	218-01-9		1.4	mg/kg		1.4	mg/kg	0.00014 %		
25		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		1.1	mg/kg		1.1	mg/kg	0.00011 %		
26		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		1.2	mg/kg		1.2	mg/kg	0.00012 %		
27		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		1.2	mg/kg		1.2	mg/kg	0.00012 %		
28		indeno[123-cd]pyrene		205-893-2	193-39-5		0.9	mg/kg		0.9	mg/kg	0.00009 %		
29		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.2	mg/kg		0.2	mg/kg	0.00002 %		
30		benzo[ghi]perylene		205-883-8	191-24-2		0.8	mg/kg		0.8	mg/kg	0.00008 %		
31		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
32		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
33		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
34		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
35		TPH (C6 to C40) petroleum group			TPH		21.1	mg/kg		21.1	mg/kg	0.00211 %		

#		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		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
37		polychlorobiphenyls; PCB				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
38		asbestos				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**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									
39		antimony { antimony trioxide }				<0.1	mg/kg	1.197	<0.12	mg/kg	<0.000012 %		<**LOD**
		051-005-00-X	215-175-0	1309-64-4									
40		beryllium { beryllium oxide }				<0.1	mg/kg	2.775	<0.278	mg/kg	<0.0000278 %		<**LOD**
		004-003-00-8	215-133-1	1304-56-9									
41		manganese { manganese sulphate }				<0.1	mg/kg	2.749	<0.275	mg/kg	<0.0000275 %		<**LOD**
		025-003-00-4	232-089-9	7785-87-7									
42		molybdenum { molybdenum(VI) oxide }				<0.1	mg/kg	1.5	<0.15	mg/kg	<0.000015 %		<**LOD**
		042-001-00-9	215-204-7	1313-27-5									
43		1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
			203-458-1, 200-863-5	107-06-2, 75-34-3									
44		tetrachloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-028-00-4	204-825-9	127-18-4									
45		carbon tetrachloride; tetrachloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-008-00-5	200-262-8	56-23-5									
46		trichloroethylene; trichloroethene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-027-00-9	201-167-4	79-01-6									
47		vinyl chloride; chloroethylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-023-00-7	200-831-0	75-01-4									
48		DDT (ISO); clofenotane (INN); dicophane; 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane; dichlorodiphenyltrichloroethane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-045-00-7	200-024-3	50-29-3									
49		chlordane (ISO); 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindan				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-047-00-8	200-349-0	57-74-9									
50		hexachlorocyclohexanes, including lindane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**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									
51		dieldrin (ISO)				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-049-00-9	200-484-5	60-57-1									
52		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				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-051-00-X	200-775-7	72-20-8									
53		heptachlor (ISO); 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-046-00-2	200-962-3	76-44-8									
54		hexachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-065-00-6	204-273-9	118-74-1									
55		chlordecone (ISO); perchloropentacyclo[5,3,0,02,6,03,9,04,8]decan-5-one; decachloropentacyclo[5,2,1,02,6,03,9,05,8]decan-4-one				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		606-019-00-6	205-601-3	143-50-0									
56		aldrin (ISO)				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-048-00-3	206-215-8	309-00-2									

#		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									
57		pentachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-074-00-5	210-172-0	608-93-5									
58		dodecachloropentacyclo[5.2.1.02,6.03,9.05,8]decane; mirex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-077-00-1	219-196-6	2385-85-5									
59		camphechlor (ISO); toxaphene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-044-00-1	232-283-3	8001-35-2									
60		hexabromobiphenyl				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			252-994-2	36355-01-8									
61		2,3,7,8-TeCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
			217-122-7	1746-01-6									
62		1,2,3,7,8-PeCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				40321-76-4									
63		1,2,3,4,7,8-HxCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				39227-28-6									
64		1,2,3,6,7,8-HxCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				57653-85-7									
65		1,2,3,7,8,9-HxCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				19408-74-3									
66		1,2,3,4,6,7,8-HpCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				35822-46-9									
67		OCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				3268-87-9									
68		2,3,7,8-TeCDF				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				51207-31-9									
69		1,2,3,7,8-PeCDF				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				57117-41-6									
70		2,3,4,7,8-PeCDF				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				57117-31-4									
71		1,2,3,4,7,8-HxCDF				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				70648-26-9									
72		1,2,3,6,7,8-HxCDF				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				57117-44-9									
73		1,2,3,7,8,9-HxCDF				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				72918-21-9									
74		2,3,4,6,7,8-HxCDF				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				60851-34-5									
75		1,2,3,4,6,7,8-HpCDF				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				67562-39-4									
76		1,2,3,4,7,8,9-HpCDF				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				55673-89-7									
77		OCDF				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				39001-02-0									
78		petrol (gasoline) petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
79		diesel petroleum group		68334-30-5, 68476-34-6, 94114-59-7, 1159170-26-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
80		heavy/residual fuel oils petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
81		crude oils petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
82		kerosine petroleum group including kerosine (petroleum); kerosine (petroleum) hydrosulphurised; kerosine (petroleum) sweetened				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			232-366-4; 265-184-9; 294-799-5	8008-20-6; 64742-81-0; 91770-15-9									
										Total:	0.706 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Concentrations too low to be considered flammable risk

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00211%)

Classification of sample: BH05

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

Sample details

Sample name:
BH05
Sample Depth:
2.80 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		26	mg/kg	1.32	34.328	mg/kg	0.00343 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		<0.5	mg/kg	1.142	<0.571	mg/kg	<0.0000571 %		<LOD
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		42	mg/kg	1.462	61.385	mg/kg	0.00614 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		42.7	mg/kg	1.126	48.075	mg/kg	0.00481 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	51.4	mg/kg	1.56	80.174	mg/kg	0.00514 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5	mg/kg	1.353	<0.677	mg/kg	<0.0000677 %		<LOD
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		47.6	mg/kg	2.976	141.67	mg/kg	0.0142 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
9	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		119	mg/kg	1.245	148.121	mg/kg	0.0148 %		
10	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
11	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8	mg/kg	1.923	<1.538	mg/kg	<0.000154 %		<LOD
12	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.6	mg/kg	3.22	5.152	mg/kg	0.000515 %		
13	pH			PH		8.2	pH		8.2	pH	8.2 pH		
14	phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
15	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17		acenaphthene		201-469-6	83-32-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
18		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19		phenanthrene		201-581-5	85-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
20		anthracene		204-371-1	120-12-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
21		fluoranthene		205-912-4	206-44-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
22		pyrene		204-927-3	129-00-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
23		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
24		chrysene	601-048-00-0	205-923-4	218-01-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
25		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
26		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
27		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
28		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
29		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
30		benzo[ghi]perylene		205-883-8	191-24-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
31		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
33		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
34		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
35		TPH (C6 to C40) petroleum group			TPH		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
36		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
37		polychlorobiphenyls; PCB	602-039-00-4	215-648-1	1336-36-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
38		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		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
39		antimony { antimony trioxide }	051-005-00-X	215-175-0	1309-64-4		<0.1	mg/kg	1.197	<0.12	mg/kg	<0.000012 %		<LOD
40		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		<0.1	mg/kg	2.775	<0.278	mg/kg	<0.0000278 %		<LOD

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
41		manganese { manganese sulphate }	025-003-00-4	232-089-9	7785-87-7		<0.1	mg/kg	2.749	<0.275	mg/kg	<0.0000275 %		<**LOD**
42		molybdenum { molybdenum(VI) oxide }	042-001-00-9	215-204-7	1313-27-5		<0.1	mg/kg	1.5	<0.15	mg/kg	<0.000015 %		<**LOD**
43		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
44		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
45		carbon tetrachloride; tetrachloromethane	602-008-00-5	200-262-8	56-23-5		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
46		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
47		vinyl chloride; chloroethylene	602-023-00-7	200-831-0	75-01-4		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
48		DDT (ISO); clofenotane (INN); dicophane; 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane; dichlorodiphenyltrichloroethane	602-045-00-7	200-024-3	50-29-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
49		chlordane (ISO); 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindan	602-047-00-8	200-349-0	57-74-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
50		hexachlorocyclohexanes, including lindane	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		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
51		dieldrin (ISO)	602-049-00-9	200-484-5	60-57-1		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
52		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	602-051-00-X	200-775-7	72-20-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
53		heptachlor (ISO); 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene	602-046-00-2	200-962-3	76-44-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
54		hexachlorobenzene	602-065-00-6	204-273-9	118-74-1		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
55		chlordecone (ISO); perchloropentacyclo[5,3,0,02,6,03,9,04,8]decan-5-one; decachloropentacyclo[5,2,1,02,6,03,9,05,8]decan-4-one	606-019-00-6	205-601-3	143-50-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
56		aldrin (ISO)	602-048-00-3	206-215-8	309-00-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
57		pentachlorobenzene	602-074-00-5	210-172-0	608-93-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
58		dodecachloropentacyclo[5.2.1.02,6.03,9.05,8]decane; mirex	602-077-00-1	219-196-6	2385-85-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
59		camphechlor (ISO); toxaphene	602-044-00-1	232-283-3	8001-35-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
60		hexabromobiphenyl		252-994-2	36355-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
61		2,3,7,8-TeCDD		217-122-7	1746-01-6		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
62		1,2,3,7,8-PeCDD			40321-76-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
63		1,2,3,4,7,8-HxCDD			39227-28-6		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
64		1,2,3,6,7,8-HxCDD			57653-85-7		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**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									
65		1,2,3,7,8,9-HxCDD		19408-74-3		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
66		1,2,3,4,6,7,8-HpCDD		35822-46-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
67		OCDD		3268-87-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
68		2,3,7,8-TeCDF		51207-31-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
69		1,2,3,7,8-PeCDF		57117-41-6		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
70		2,3,4,7,8-PeCDF		57117-31-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
71		1,2,3,4,7,8-HxCDF		70648-26-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
72		1,2,3,6,7,8-HxCDF		57117-44-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
73		1,2,3,7,8,9-HxCDF		72918-21-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
74		2,3,4,6,7,8-HxCDF		60851-34-5		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
75		1,2,3,4,6,7,8-HpCDF		67562-39-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
76		1,2,3,4,7,8,9-HpCDF		55673-89-7		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
77		OCDF		39001-02-0		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
78		petrol (gasoline) petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
79		diesel petroleum group		68334-30-5, 68476-34-6, 94114-59-7, 1159170-26-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
80		heavy/residual fuel oils petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
81		crude oils petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
82		kerosine petroleum group including kerosine (petroleum); kerosine (petroleum) hydrosulphurised; kerosine (petroleum) sweetened	232-366-4; 265-184-9; 294-799-5	8008-20-6; 64742-81-0; 91770-15-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
										Total:	0.0502 %		

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

Classification of sample: BH06

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

Sample details

Sample name:
BH06
Sample Depth:
0.60 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		37.3	mg/kg	1.32	49.248	mg/kg	0.00492 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.9	mg/kg	1.142	1.028	mg/kg	0.000103 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		37.2	mg/kg	1.462	54.37	mg/kg	0.00544 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		173	mg/kg	1.126	194.779	mg/kg	0.0195 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	302	mg/kg	1.56	471.064	mg/kg	0.0302 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		0.8	mg/kg	1.353	1.083	mg/kg	0.000108 %		
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		39.7	mg/kg	2.976	118.158	mg/kg	0.0118 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
9	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		479	mg/kg	1.245	596.218	mg/kg	0.0596 %		
10	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
11	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8	mg/kg	1.923	<1.538	mg/kg	<0.000154 %		<**LOD**
12	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.2	mg/kg	3.22	3.864	mg/kg	0.000386 %		
13	pH			PH		8.6	pH		8.6	pH	8.6 pH		
14	phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
15	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**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									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			201-581-5	85-01-8									
20		anthracene				0.1	mg/kg		0.1	mg/kg	0.00001 %		
			204-371-1	120-12-7									
21		fluoranthene				0.9	mg/kg		0.9	mg/kg	0.00009 %		
			205-912-4	206-44-0									
22		pyrene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.7	mg/kg		0.7	mg/kg	0.00007 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-883-8	191-24-2									
31		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
32		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
33		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
34		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<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]									
35		TPH (C6 to C40) petroleum group				150	mg/kg		150	mg/kg	0.015 %		
				TPH									
36		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
37		polychlorobiphenyls; PCB				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
38		asbestos				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<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									
39		antimony { antimony trioxide }				<0.1	mg/kg	1.197	<0.12	mg/kg	<0.000012 %		<LOD
		051-005-00-X	215-175-0	1309-64-4									
40		beryllium { beryllium oxide }				<0.1	mg/kg	2.775	<0.278	mg/kg	<0.0000278 %		<LOD
		004-003-00-8	215-133-1	1304-56-9									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		manganese { manganese sulphate }				<0.1	mg/kg	2.749	<0.275	mg/kg	<0.0000275 %		<LOD
		025-003-00-4	232-089-9	7785-87-7									
42		molybdenum { molybdenum(VI) oxide }				<0.1	mg/kg	1.5	<0.15	mg/kg	<0.000015 %		<LOD
		042-001-00-9	215-204-7	1313-27-5									
43		1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			203-458-1, 200-863-5	107-06-2, 75-34-3									
44		tetrachloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
45		carbon tetrachloride; tetrachloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
46		trichloroethylene; trichloroethene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
47		vinyl chloride; chloroethylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
48		DDT (ISO); clofenotane (INN); dicophane; 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane; dichlorodiphenyltrichloroethane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-045-00-7	200-024-3	50-29-3									
49		chlordane (ISO); 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindan				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-047-00-8	200-349-0	57-74-9									
50		hexachlorocyclohexanes, including lindane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<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									
51		dieldrin (ISO)				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-049-00-9	200-484-5	60-57-1									
52		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				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-051-00-X	200-775-7	72-20-8									
53		heptachlor (ISO); 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-046-00-2	200-962-3	76-44-8									
54		hexachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
55		chlordecone (ISO); perchloropentacyclo[5,3,0,02,6,03,9,04,8]decan-5-one; decachloropentacyclo[5,2,1,02,6,03,9,05,8]decan-4-one				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		606-019-00-6	205-601-3	143-50-0									
56		aldrin (ISO)				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-048-00-3	206-215-8	309-00-2									
57		pentachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-074-00-5	210-172-0	608-93-5									
58		dodecachloropentacyclo[5.2.1.02,6.03,9.05,8]decane; mirex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-077-00-1	219-196-6	2385-85-5									
59		camphechlor (ISO); toxaphene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-044-00-1	232-283-3	8001-35-2									
60		hexabromobiphenyl				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			252-994-2	36355-01-8									
61		2,3,7,8-TeCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
			217-122-7	1746-01-6									
62		1,2,3,7,8-PeCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				40321-76-4									
63		1,2,3,4,7,8-HxCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				39227-28-6									
64		1,2,3,6,7,8-HxCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				57653-85-7									

#		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									
65		1,2,3,7,8,9-HxCDD		19408-74-3		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
66		1,2,3,4,6,7,8-HpCDD		35822-46-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
67		OCDD		3268-87-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
68		2,3,7,8-TeCDF		51207-31-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
69		1,2,3,7,8-PeCDF		57117-41-6		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
70		2,3,4,7,8-PeCDF		57117-31-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
71		1,2,3,4,7,8-HxCDF		70648-26-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
72		1,2,3,6,7,8-HxCDF		57117-44-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
73		1,2,3,7,8,9-HxCDF		72918-21-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
74		2,3,4,6,7,8-HxCDF		60851-34-5		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
75		1,2,3,4,6,7,8-HpCDF		67562-39-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
76		1,2,3,4,7,8,9-HpCDF		55673-89-7		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
77		OCDF		39001-02-0		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
78		petrol (gasoline) petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
79		diesel petroleum group		68334-30-5, 68476-34-6, 94114-59-7, 1159170-26-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
80		heavy/residual fuel oils petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
81		crude oils petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
82		kerosine petroleum group including kerosine (petroleum); kerosine (petroleum) hydrosulphurised; kerosine (petroleum) sweetened	232-366-4; 265-184-9; 294-799-5	8008-20-6; 64742-81-0; 91770-15-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
										Total:	0.148 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Concentrations too low to be considered flammable risk

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.015%)

Classification of sample: BH07

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

Sample details

Sample name:
BH07
Sample Depth:
0.20 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		21.6 mg/kg	1.32	28.519 mg/kg	0.00285 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		0.6 mg/kg	1.142	0.685 mg/kg	0.0000685 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		22.5 mg/kg	1.462	32.885 mg/kg	0.00329 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		102 mg/kg	1.126	114.841 mg/kg	0.0115 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	185 mg/kg	1.56	288.566 mg/kg	0.0185 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.5 mg/kg	1.353	<0.677 mg/kg	<0.0000677 %		<LOD
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		21.6 mg/kg	2.976	64.287 mg/kg	0.00643 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1 mg/kg	1.405	<1.405 mg/kg	<0.000141 %		<LOD
9	zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		289 mg/kg	1.245	359.722 mg/kg	0.036 %		
10	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1 mg/kg	1.884	<1.884 mg/kg	<0.000188 %		<LOD
11	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8 mg/kg	1.923	<1.538 mg/kg	<0.000154 %		<LOD
12	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		0.9 mg/kg	3.22	2.898 mg/kg	0.00029 %		
13	pH			PH		8.3 pH		8.3 pH	8.3 pH		
14	phenol	604-001-00-2	203-632-7	108-95-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
15	naphthalene	601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<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									
16		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
			201-695-5	86-73-7									
19		phenanthrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			201-581-5	85-01-8									
20		anthracene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			204-371-1	120-12-7									
21		fluoranthene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
			205-912-4	206-44-0									
22		pyrene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.3	mg/kg		0.3	mg/kg	0.00003 %		
			205-883-8	191-24-2									
31		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
32		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
33		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
34		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<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]									
35		TPH (C6 to C40) petroleum group				86.1	mg/kg		86.1	mg/kg	0.00861 %		
				TPH									
36		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
37		polychlorobiphenyls; PCB				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
38		asbestos				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<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									
39		antimony { antimony trioxide }				<0.1	mg/kg	1.197	<0.12	mg/kg	<0.000012 %		<LOD
		051-005-00-X	215-175-0	1309-64-4									
40		beryllium { beryllium oxide }				<0.1	mg/kg	2.775	<0.278	mg/kg	<0.0000278 %		<LOD
		004-003-00-8	215-133-1	1304-56-9									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		manganese { manganese sulphate }				<0.1	mg/kg	2.749	<0.275	mg/kg	<0.0000275 %		<LOD
		025-003-00-4	232-089-9	7785-87-7									
42		molybdenum { molybdenum(VI) oxide }				<0.1	mg/kg	1.5	<0.15	mg/kg	<0.000015 %		<LOD
		042-001-00-9	215-204-7	1313-27-5									
43		1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
			203-458-1, 200-863-5	107-06-2, 75-34-3									
44		tetrachloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
45		carbon tetrachloride; tetrachloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
46		trichloroethylene; trichloroethene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
47		vinyl chloride; chloroethylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
48		DDT (ISO); clofenotane (INN); dicophane; 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane; dichlorodiphenyltrichloroethane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-045-00-7	200-024-3	50-29-3									
49		chlordane (ISO); 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindan				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-047-00-8	200-349-0	57-74-9									
50		hexachlorocyclohexanes, including lindane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<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									
51		dieldrin (ISO)				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-049-00-9	200-484-5	60-57-1									
52		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				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-051-00-X	200-775-7	72-20-8									
53		heptachlor (ISO); 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-046-00-2	200-962-3	76-44-8									
54		hexachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-065-00-6	204-273-9	118-74-1									
55		chlordecone (ISO); perchloropentacyclo[5,3,0,02,6,03,9,04,8]decan-5-one; decachloropentacyclo[5,2,1,02,6,03,9,05,8]decan-4-one				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		606-019-00-6	205-601-3	143-50-0									
56		aldrin (ISO)				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-048-00-3	206-215-8	309-00-2									
57		pentachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-074-00-5	210-172-0	608-93-5									
58		dodecachloropentacyclo[5.2.1.02,6.03,9.05,8]decane; mirex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-077-00-1	219-196-6	2385-85-5									
59		camphechlor (ISO); toxaphene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-044-00-1	232-283-3	8001-35-2									
60		hexabromobiphenyl				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			252-994-2	36355-01-8									
61		2,3,7,8-TeCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
			217-122-7	1746-01-6									
62		1,2,3,7,8-PeCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				40321-76-4									
63		1,2,3,4,7,8-HxCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				39227-28-6									
64		1,2,3,6,7,8-HxCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
				57653-85-7									

#		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									
65		1,2,3,7,8,9-HxCDD		19408-74-3		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
66		1,2,3,4,6,7,8-HpCDD		35822-46-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
67		OCDD		3268-87-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
68		2,3,7,8-TeCDF		51207-31-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
69		1,2,3,7,8-PeCDF		57117-41-6		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
70		2,3,4,7,8-PeCDF		57117-31-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
71		1,2,3,4,7,8-HxCDF		70648-26-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
72		1,2,3,6,7,8-HxCDF		57117-44-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
73		1,2,3,7,8,9-HxCDF		72918-21-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
74		2,3,4,6,7,8-HxCDF		60851-34-5		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
75		1,2,3,4,6,7,8-HpCDF		67562-39-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
76		1,2,3,4,7,8,9-HpCDF		55673-89-7		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
77		OCDF		39001-02-0		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
78		petrol (gasoline) petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
79		diesel petroleum group		68334-30-5, 68476-34-6, 94114-59-7, 1159170-26-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
80		heavy/residual fuel oils petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
81		crude oils petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
82		kerosine petroleum group including kerosine (petroleum); kerosine (petroleum) hydrosulphurised; kerosine (petroleum) sweetened	232-366-4; 265-184-9; 294-799-5	8008-20-6; 64742-81-0; 91770-15-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
										Total:	0.0889 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Concentrations too low to be considered flammable risk

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00861%)

Appendix A: Classifier defined and non GB MCL determinands

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

Description/Comments: Data from C&L Inventory Database
Data source: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

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

- **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

- **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

- **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

- **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

- **hexabromobiphenyl** (EC Number: 252-994-2, CAS Number: 36355-01-8)

Description/Comments:
Data source: POP specific threshold from ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004).
Data source date: 01 Jul 2013
Hazard Statements: POP >= 0.005 %

- **2,3,7,8-TeCDD** (EC Number: 217-122-7, CAS Number: 1746-01-6)

Description/Comments: 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=1)

- **1,2,3,7,8-PeCDD** (CAS Number: 40321-76-4)

Description/Comments: 1,2,3,7,8-pentachlorodibenzo-p-dioxin
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=1)

- **1,2,3,4,7,8-HxCDD** (CAS Number: 39227-28-6)

Description/Comments: 1,2,3,4,7,8-hexachlorodibenzo-p-dioxin
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.1)

1,2,3,6,7,8-HxCDD (CAS Number: 57653-85-7)

Description/Comments: 1,2,3,6,7,8-hexachlorodibenzo-p-dioxin
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.1)

1,2,3,7,8,9-HxCDD (CAS Number: 19408-74-3)

Description/Comments: 1,2,3,7,8,9-hexachlorodibenzo-p-dioxin
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.1)

1,2,3,4,6,7,8-HpCDD (CAS Number: 35822-46-9)

Description/Comments: 1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.01)

OCDD (CAS Number: 3268-87-9)

Description/Comments: octachlorodibenzo-p-dioxin
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.0003)

2,3,7,8-TeCDF (CAS Number: 51207-31-9)

Description/Comments: 2,3,7,8-tetrachlorodibenzofuran
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.1)

1,2,3,7,8-PeCDF (CAS Number: 57117-41-6)

Description/Comments: 1,2,3,7,8-pentachlorodibenzofuran
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.03)

2,3,4,7,8-PeCDF (CAS Number: 57117-31-4)

Description/Comments: 2,3,4,7,8-pentachlorodibenzofuran
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.3)

1,2,3,4,7,8-HxCDF (CAS Number: 70648-26-9)

Description/Comments: 1,2,3,4,7,8-hexachlorodibenzofuran
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.1)

1,2,3,6,7,8-HxCDF (CAS Number: 57117-44-9)

Description/Comments: 1,2,3,6,7,8-hexachlorodibenzofuran
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.1)

1,2,3,7,8,9-HxCDF (CAS Number: 72918-21-9)

Description/Comments: 1,2,3,7,8,9-hexachlorodibenzofuran
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.1)

2,3,4,6,7,8-HxCDF (CAS Number: 60851-34-5)

Description/Comments: 2,3,4,6,7,8-hexachlorodibenzofuran
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.1)

- **1,2,3,4,6,7,8-HpCDF** (CAS Number: 67562-39-4)

Description/Comments: 1,2,3,4,6,7,8-heptachlorodibenzofuran
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.01)

- **1,2,3,4,7,8,9-HpCDF** (CAS Number: 55673-89-7)

Description/Comments: 1,2,3,4,7,8,9-heptachlorodibenzofuran
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.01)

- **OCDF** (CAS Number: 39001-02-0)

Description/Comments: octachlorodibenzo[b,d]furan
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.0003)

- **petrol (gasoline) petroleum group**

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. 1; H224 , Skin Irrit. 2; H315 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , STOT SE 3; H336 , Asp. Tox. 1; H304 , Aquatic Chronic 2; H411

- **diesel petroleum group** (CAS Number: 68334-30-5, 68476-34-6, 94114-59-7, 1159170-26-9)

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 , Skin Irrit. 2; H315 , Acute Tox. 4; H332 , Carc. 2; H351 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Aquatic Chronic 2; H411

- **heavy/residual fuel oils petroleum group**

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: Muta. 1B; H340 , Carc. 1B; H350 , Acute Tox. 4; H332 , Repr. 2; H361d , STOT RE 2; H373 , Aquatic Chronic 2; H411

- **crude oils petroleum group**

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. 2; H225 , Carc. 1B; H350 , Eye Irrit. 2; H319 , Asp. Tox. 1; H304 , STOT RE 2; H373 , STOT SE 3; H336 , Aquatic Chronic 2; H411

- **kerosine petroleum group including kerosine (petroleum); kerosine (petroleum) hydrosulphurised; kerosine (petroleum) sweetened** (EC Number: 232-366-4; 265-184-9; 294-799-5, CAS Number: 8008-20-6; 64742-81-0; 91770-15-9)

Description/Comments: Review of ECHA Registered Substances database; Concawe report: hazard classification and labelling of petroleum substances in the European Economic Area - 2012; REACH compliant SDS from Total, Petrobras; Petrochem; Shell; ESS
Data source: http://echa.europa.eu/information-on-chemicals/registered-substances; Hazard classification and labelling of petroleum substances in the European Economic Area - 2012 (CONCAWE); SDS: company websites
Data source date: 21 Jan 2014
Hazard Statements: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Asp. Tox. 1; H304 , Aquatic Chronic 2; H411

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

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

cadmium {cadmium oxide}

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

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

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

copper {dicopper oxide; copper (I) oxide}

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

lead {lead chromate}

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

mercury {mercury dichloride}

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

nickel {nickel chromate}

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

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

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

zinc {zinc oxide}

Not enough chrome present to warrant zinc chromate classification

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)

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

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

boron {diboron trioxide; boric oxide}

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

antimony {antimony trioxide}

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

beryllium {beryllium oxide}

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

manganese {manganese sulphate}

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

molybdenum {molybdenum(VI) oxide}

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

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021
HazWasteOnline Classification Engine Version: 2022.181.5224.9815 (30 Jun 2022)
HazWasteOnline Database: 2022.181.5224.9815 (30 Jun 2022)

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

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WAC Analysis			Landfill Waste Acceptance Criteria Limits*					
Sample Date:	283709		**Inert Waste Landfill**		**Stable Non-reactive Hazardous waste in non-hazardous Landfill**		**Hazardous Waste Landfill**	
Sample ID:	BH06							
Depth (m)	0.6							
Site:								
Determinand	**Input**							
Total Organic Carbon	3.4		3	Below	5	Below	6	Below
Loss on Ignition	6.17		--	Below	--	Below	10	Below
Total BTEX	< 0.01		6	Below	--	Below	--	Below
Total PCBs (7 congeners)	0.09		1	Below	--	Below	--	Below
TPH Total WAC	98		500	Below	--	Below	--	Below
Total (of 17) PAHs	6		100	Below	--	Below	--	Below
pH	8.6		--	Below	6	Below	--	Below
Acid Neutralisation Capacity	< 0.1		--		To evaluate		To evaluate	
Eluate Analysis			**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg**					
Arsenic	0.070		0.5	Below	2	Below	25	Below
Barium	0.430		20	Below	100	Below	300	Below
Cadmium	< 0.01		0.04	Below	1	Below	5	Below
Chromium	< 0.05		0.5	Below	10	Below	70	Below
Copper	0.050		2	Below	50	Below	100	Below
Mercury	< 0.01		0.01	Below	0.2	Below	2	Below
Molybdenum	0.120		0.5	Below	10	Below	30	Below
Nickel	< 0.05		0.4	Below	10	Below	40	Below
Lead	< 0.05		0.5	Below	10	Below	50	Below
Antimony	0.050		0.06	Below	0.7	Below	5	Below
Selenium	< 0.05		0.1	Below	0.5	Below	7	Below
Zinc	< 0.05		4	Below	50	Below	200	Below
Chloride	< 50		800	Below	15000	Below	25000	Below
Fluoride	16		10	Below	150	Below	500	Below
Sulphate	157		1000	Below	20000	Below	50000	Below
Total Dissolved Solids	965		4000	Below	60000	Below	100000	Below
Phenol Index	< 0.10		1	Below	-	Below	-	Below
Dissolved Organic Carbon	97.000		500	Below	800	Below	1000	Below
Leach Test Information								
pH								
Conductivity (uS/cm)								
Dry mass of test portion (g)								
Dry Matter (%)								
Moisture (%)								
Eluent Volume (ml)								

Asbestos Detection
No Asbestos Detected

Hazwaste Online Waste Classification
Non-Hazardous Waste

Landfill**
Inert

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.

**It should be noted that the final decision on waste classification is at the discretion of the accepting landfill, and it is recommended that consultation with landfill operators be undertaken during the development of the waste management plan.

CC GEOTECHNICAL LIMITED
Consulting Geotechnical and Geoenvironmental Engineers

WAC Analysis			Landfill Waste Acceptance Criteria Limits*					
Sample Date:	283710		**Inert Waste Landfill**		**Stable Non-reactive Hazardous waste in non-hazardous Landfill**		**Hazardous Waste Landfill**	
Sample ID:	BH07							
Depth (m)	0.2							
Site:								
Determinand	**Input**							
Total Organic Carbon	2.4		3	Below	5	Below	6	Below
Loss on Ignition	5.17		--	Below	--	Below	10	Below
Total BTEX	< 0.01		6	Below	--	Below	--	Below
Total PCBs (7 congeners)	< 0.03		1	Below	--	Below	--	Below
TPH Total WAC	33		500	Below	--	Below	--	Below
Total (of 17) PAHs	5		100	Below	--	Below	--	Below
pH	8.3		--	Below	6	Below	--	Below
Acid Neutralisation Capacity	< 0.1		--		To evaluate		To evaluate	
Eluate Analysis			**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg**					
Arsenic	0.070		0.5	Below	2	Below	25	Below
Barium	0.540		20	Below	100	Below	300	Below
Cadmium	< 0.01		0.04	Below	1	Below	5	Below
Chromium	< 0.05		0.5	Below	10	Below	70	Below
Copper	< 0.05		2	Below	50	Below	100	Below
Mercury	< 0.01		0.01	Below	0.2	Below	2	Below
Molybdenum	< 0.05		0.5	Below	10	Below	30	Below
Nickel	< 0.05		0.4	Below	10	Below	40	Below
Lead	< 0.05		0.5	Below	10	Below	50	Below
Antimony	< 0.05		0.06	Below	0.7	Below	5	Below
Selenium	< 0.05		0.1	Below	0.5	Below	7	Below
Zinc	0.130		4	Below	50	Below	200	Below
Chloride	< 50		800	Below	15000	Below	25000	Below
Fluoride	< 10		10	Below	150	Below	500	Below
Sulphate	7230		1000	Below	20000	Below	50000	Below
Total Dissolved Solids	8570		4000	Below	60000	Below	100000	Below
Phenol Index	< 0.10		1	Below	-	Below	-	Below
Dissolved Organic Carbon	74.000		500	Below	800	Below	1000	Below
Leach Test Information								
pH								
Conductivity (uS/cm)								
Dry mass of test portion (g)								
Dry Matter (%)								
Moisture (%)								
Eluent Volume (ml)								

Asbestos Detection
No Asbestos Detected

Hazwaste Online Waste Classification
Non-Hazardous Waste

Landfill**
Inert

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HazWasteOnline™

Waste Classification Report

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

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

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

PNFHS-BUS40-P6QGD

Job name

22-13352

Description/Comments

Project

FERALCO, WIDNES

Site

FERALCO, WIDNES

Classified by

Name:
Daniel O'Regan
Company:
CC Geotechnical Ltd
Date:
23 Sep 2022 10:01 GMT
Telephone:
0151 545 2750

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

HazWasteOnline™ Certification: -

Course	Date
Hazardous Waste Classification	-

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	BH08	1.00	Hazardous	HP 7, HP 14	2
2	BH09	0.50	Hazardous	HP 6, HP 7, HP 14	7
3	BH10	0.50	Hazardous	HP 7, HP 14	12
4	BH11	1.50	Non Hazardous		17

Related documents

#	Name	Description
1	CCG Soil A 2022	waste stream template used to create this Job

Report

Created by: Daniel O'Regan

Created date: 23 Sep 2022 10:01 GMT

Appendices	Page
Appendix A: Classifier defined and non GB MCL determinands	22
Appendix B: Rationale for selection of metal species	25
Appendix C: Version	26

Classification of sample: BH08

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

Sample details

Sample name:
BH08
Sample Depth:
1.00 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

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

Hazard Statements hit:

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

Because of determinands:

arsenic trioxide: (compound conc.: 0.151%)
zinc chromate: (compound conc.: 0.871%)

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

Because of determinand:

lead chromate: (Note 1 conc.: 0.122%)

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

Hazard Statements hit:

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

Because of determinands:

arsenic trioxide: (compound conc.: 0.151%)
dicopper oxide; copper (I) oxide: (compound conc.: 0.178%)
lead chromate: (Note 1 conc.: 0.122%)
zinc chromate: (compound conc.: 0.871%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		1140 mg/kg	1.32	1505.171 mg/kg	0.151 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		3.3 mg/kg	1.142	3.77 mg/kg	0.000377 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		34.2 mg/kg	1.462	49.985 mg/kg	0.005 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		1580 mg/kg	1.126	1778.904 mg/kg	0.178 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	1220 mg/kg	1.56	1902.974 mg/kg	0.122 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		9.7 mg/kg	1.353	13.129 mg/kg	0.00131 %		

#		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									
7		nickel { nickel chromate }				114	mg/kg	2.976	339.294	mg/kg	0.0339 %		
		028-035-00-7	238-766-5	14721-18-7									
8		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				7.8	mg/kg	1.405	10.959	mg/kg	0.0011 %		
		034-002-00-8											
9		zinc { zinc chromate }				3140	mg/kg	2.774	8710.82	mg/kg	0.871 %		
		024-007-00-3	236-878-9	13530-65-9									
10		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 }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
11		chromium in chromium(VI) compounds { chromium(VI) oxide }				<0.8	mg/kg	1.923	<1.538	mg/kg	<0.000154 %		<LOD
		024-001-00-0	215-607-8	1333-82-0									
12		boron { diboron trioxide; boric oxide }				1.3	mg/kg	3.22	4.186	mg/kg	0.000419 %		
		005-008-00-8	215-125-8	1303-86-2									
13		pH				7.6	pH		7.6	pH	7.6 pH		
				PH									
14		phenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2									
15		naphthalene				0.4	mg/kg		0.4	mg/kg	0.00004 %		
		601-052-00-2	202-049-5	91-20-3									
16		acenaphthylene				0.8	mg/kg		0.8	mg/kg	0.00008 %		
			205-917-1	208-96-8									
17		acenaphthene				1.2	mg/kg		1.2	mg/kg	0.00012 %		
			201-469-6	83-32-9									
18		fluorene				1.5	mg/kg		1.5	mg/kg	0.00015 %		
			201-695-5	86-73-7									
19		phenanthrene				7.7	mg/kg		7.7	mg/kg	0.00077 %		
			201-581-5	85-01-8									
20		anthracene				2.5	mg/kg		2.5	mg/kg	0.00025 %		
			204-371-1	120-12-7									
21		fluoranthene				6.4	mg/kg		6.4	mg/kg	0.00064 %		
			205-912-4	206-44-0									
22		pyrene				5.1	mg/kg		5.1	mg/kg	0.00051 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				3.9	mg/kg		3.9	mg/kg	0.00039 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				4.4	mg/kg		4.4	mg/kg	0.00044 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				3.3	mg/kg		3.3	mg/kg	0.00033 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				3.3	mg/kg		3.3	mg/kg	0.00033 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				3.5	mg/kg		3.5	mg/kg	0.00035 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				2.1	mg/kg		2.1	mg/kg	0.00021 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				1.9	mg/kg		1.9	mg/kg	0.00019 %		
			205-883-8	191-24-2									
31		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
32		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
33		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
34		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**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]									
35		TPH (C6 to C40) petroleum group				13.5	mg/kg		13.5	mg/kg	0.00135 %		
				TPH									
36		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
37		polychlorobiphenyls; PCB				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
38		asbestos				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**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									
39		beryllium { beryllium oxide }				<0.1	mg/kg	2.775	<0.278	mg/kg	<0.0000278 %		<**LOD**
		004-003-00-8	215-133-1	1304-56-9									
40		manganese { manganese sulphate }				<0.1	mg/kg	2.749	<0.275	mg/kg	<0.0000275 %		<**LOD**
		025-003-00-4	232-089-9	7785-87-7									
41		1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			203-458-1, 200-863-5	107-06-2, 75-34-3									
42		tetrachloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-028-00-4	204-825-9	127-18-4									
43		carbon tetrachloride; tetrachloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-008-00-5	200-262-8	56-23-5									
44		trichloroethylene; trichloroethene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-027-00-9	201-167-4	79-01-6									
45		vinyl chloride; chloroethylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-023-00-7	200-831-0	75-01-4									
46		1,1,1-trichloroethane; methyl chloroform				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-013-00-2	200-756-3	71-55-6									
47		1,1,2-trichloroethane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-014-00-8	201-166-9	79-00-5									
48		1,1-dichloroethylene; vinylidene chloride				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-025-00-8	200-864-0	75-35-4									
49		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**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]									
50		DDT (ISO); clofenotane (INN); dicophane; 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane; dichlorodiphenyltrichloroethane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-045-00-7	200-024-3	50-29-3									
51		chlordane (ISO); 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindan				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-047-00-8	200-349-0	57-74-9									
52		hexachlorocyclohexanes, including lindane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**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									
53		dieldrin (ISO)				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-049-00-9	200-484-5	60-57-1									

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
54		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	602-051-00-X	200-775-7	72-20-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
55		heptachlor (ISO); 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene	602-046-00-2	200-962-3	76-44-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
56		hexachlorobenzene	602-065-00-6	204-273-9	118-74-1		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
57		chlordecone (ISO); perchloropentacyclo[5,3,0,02,6,03,9,04,8]decan-5-one; decachloropentacyclo[5,2,1,02,6,03,9,05,8]decan-4-one	606-019-00-6	205-601-3	143-50-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
58		aldrin (ISO)	602-048-00-3	206-215-8	309-00-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
59		pentachlorobenzene	602-074-00-5	210-172-0	608-93-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
60		dodecachloropentacyclo[5.2.1.02,6.03,9.05,8]decane; mirex	602-077-00-1	219-196-6	2385-85-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
61		camphechlor (ISO); toxaphene	602-044-00-1	232-283-3	8001-35-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
62	●	hexabromobiphenyl		252-994-2	36355-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
63	●	2,3,7,8-TeCDD		217-122-7	1746-01-6		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
64	●	1,2,3,7,8-PeCDD			40321-76-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
65	●	1,2,3,4,7,8-HxCDD			39227-28-6		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
66	●	1,2,3,6,7,8-HxCDD			57653-85-7		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
67	●	1,2,3,7,8,9-HxCDD			19408-74-3		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
68	●	1,2,3,4,6,7,8-HpCDD			35822-46-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
69	●	OCDD			3268-87-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
70	●	2,3,7,8-TeCDF			51207-31-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
71	●	1,2,3,7,8-PeCDF			57117-41-6		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
72	●	2,3,4,7,8-PeCDF			57117-31-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
73	●	1,2,3,4,7,8-HxCDF			70648-26-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
74	●	1,2,3,6,7,8-HxCDF			57117-44-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
75	●	1,2,3,7,8,9-HxCDF			72918-21-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
76	●	2,3,4,6,7,8-HxCDF			60851-34-5		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
77	●	1,2,3,4,6,7,8-HpCDF			67562-39-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
78	●	1,2,3,4,7,8,9-HpCDF			55673-89-7		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
79	●	OCDF			39001-02-0		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
80	●	petrol (gasoline) petroleum group					<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**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									
81		diesel petroleum group											
				68334-30-5, 68476-34-6, 94114-59-7, 1159170-26-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
82		heavy/residual fuel oils petroleum group											
						<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
83		crude oils petroleum group											
						<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
84		kerosine petroleum group including kerosine (petroleum); kerosine (petroleum) hydrosulphurised; kerosine (petroleum) sweetened											
			232-366-4; 265-184-9; 294-799-5	8008-20-6; 64742-81-0; 91770-15-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
85		chloroform; trichloromethane											
		602-006-00-4	200-663-8	67-66-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
										Total:	1.371 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Soil concentrations too low to be considered flammable risk

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00135%)

Classification of sample: BH09

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

Sample details

Sample name:	LoW Code:	
BH09	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:		
0.50 m	Entry:	17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

HP 6: Acute 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:

Acute Tox. 2; H300 "Fatal if swallowed."

Because of determinand:

arsenic trioxide: (compound conc.: 0.816%)

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

Hazard Statements hit:

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

Because of determinand:

arsenic trioxide: (compound conc.: 0.816%)

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

Hazard Statements hit:

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

Because of determinands:

arsenic trioxide: (compound conc.: 0.816%)
dicopper oxide; copper (I) oxide: (compound conc.: 0.308%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		6180 mg/kg	1.32	8159.611 mg/kg	0.816 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		2.7 mg/kg	1.142	3.084 mg/kg	0.000308 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		25.9 mg/kg	1.462	37.854 mg/kg	0.00379 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		2740 mg/kg	1.126	3084.934 mg/kg	0.308 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	443 mg/kg	1.56	690.998 mg/kg	0.0443 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		2.3 mg/kg	1.353	3.113 mg/kg	0.000311 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
7		nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		42	mg/kg	2.976	125.003	mg/kg	0.0125 %		
8		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				3.6	mg/kg	1.405	5.058	mg/kg	0.000506 %		
9		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		327	mg/kg	2.774	907.146	mg/kg	0.0907 %		
10		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
11		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8	mg/kg	1.923	<1.538	mg/kg	<0.000154 %		<LOD
12		boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		<0.5	mg/kg	3.22	<1.61	mg/kg	<0.000161 %		<LOD
13		pH			PH		7.8	pH		7.8	pH	7.8 pH		
14		phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
15		naphthalene	601-052-00-2	202-049-5	91-20-3		0.5	mg/kg		0.5	mg/kg	0.00005 %		
16		acenaphthylene		205-917-1	208-96-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
17		acenaphthene		201-469-6	83-32-9		0.2	mg/kg		0.2	mg/kg	0.00002 %		
18		fluorene		201-695-5	86-73-7		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
19		phenanthrene		201-581-5	85-01-8		1.3	mg/kg		1.3	mg/kg	0.00013 %		
20		anthracene		204-371-1	120-12-7		0.2	mg/kg		0.2	mg/kg	0.00002 %		
21		fluoranthene		205-912-4	206-44-0		0.8	mg/kg		0.8	mg/kg	0.00008 %		
22		pyrene		204-927-3	129-00-0		0.6	mg/kg		0.6	mg/kg	0.00006 %		
23		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.3	mg/kg		0.3	mg/kg	0.00003 %		
24		chrysene	601-048-00-0	205-923-4	218-01-9		0.3	mg/kg		0.3	mg/kg	0.00003 %		
25		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.5	mg/kg		0.5	mg/kg	0.00005 %		
26		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.3	mg/kg		0.3	mg/kg	0.00003 %		
27		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.3	mg/kg		0.3	mg/kg	0.00003 %		
28		indeno[123-cd]pyrene		205-893-2	193-39-5		0.2	mg/kg		0.2	mg/kg	0.00002 %		
29		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
30		benzo[ghi]perylene		205-883-8	191-24-2		0.2	mg/kg		0.2	mg/kg	0.00002 %		
31		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
32		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
33		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<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									
34		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<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]									
35		TPH (C6 to C40) petroleum group				14.1	mg/kg		14.1	mg/kg	0.00141 %		
				TPH									
36		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
37		polychlorobiphenyls; PCB				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
38		asbestos				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<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									
39		beryllium { beryllium oxide }				<0.1	mg/kg	2.775	<0.278	mg/kg	<0.0000278 %		<LOD
		004-003-00-8	215-133-1	1304-56-9									
40		manganese { manganese sulphate }				<0.1	mg/kg	2.749	<0.275	mg/kg	<0.0000275 %		<LOD
		025-003-00-4	232-089-9	7785-87-7									
41		1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			203-458-1, 200-863-5	107-06-2, 75-34-3									
42		tetrachloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-028-00-4	204-825-9	127-18-4									
43		carbon tetrachloride; tetrachloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
44		trichloroethylene; trichloroethene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		602-027-00-9	201-167-4	79-01-6									
45		vinyl chloride; chloroethylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
46		1,1,1-trichloroethane; methyl chloroform				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
47		1,1,2-trichloroethane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
48		1,1-dichloroethylene; vinylidene chloride				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
49		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<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]									
50		DDT (ISO); clofenotane (INN); dicophane; 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane; dichlorodiphenyltrichloroethane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-045-00-7	200-024-3	50-29-3									
51		chlordane (ISO); 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindan				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-047-00-8	200-349-0	57-74-9									
52		hexachlorocyclohexanes, including lindane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<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									
53		dieldrin (ISO)				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-049-00-9	200-484-5	60-57-1									

#		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									
54		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				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-051-00-X	200-775-7	72-20-8									
55		heptachlor (ISO); 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-046-00-2	200-962-3	76-44-8									
56		hexachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-065-00-6	204-273-9	118-74-1									
57		chlordecone (ISO); perchloropentacyclo[5,3,0,02,6,03,9,04,8]decan-5-one; decachloropentacyclo[5,2,1,02,6,03,9,05,8]decan-4-one				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		606-019-00-6	205-601-3	143-50-0									
58		aldrin (ISO)				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-048-00-3	206-215-8	309-00-2									
59		pentachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-074-00-5	210-172-0	608-93-5									
60		dodecachloropentacyclo[5.2.1.02,6.03,9.05,8]decane; mirex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-077-00-1	219-196-6	2385-85-5									
61		camphechlor (ISO); toxaphene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-044-00-1	232-283-3	8001-35-2									
62		hexabromobiphenyl				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			252-994-2	36355-01-8									
63		2,3,7,8-TeCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
			217-122-7	1746-01-6									
64		1,2,3,7,8-PeCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
				40321-76-4									
65		1,2,3,4,7,8-HxCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
				39227-28-6									
66		1,2,3,6,7,8-HxCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
				57653-85-7									
67		1,2,3,7,8,9-HxCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
				19408-74-3									
68		1,2,3,4,6,7,8-HpCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
				35822-46-9									
69		OCDD				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
				3268-87-9									
70		2,3,7,8-TeCDF				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
				51207-31-9									
71		1,2,3,7,8-PeCDF				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
				57117-41-6									
72		2,3,4,7,8-PeCDF				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
				57117-31-4									
73		1,2,3,4,7,8-HxCDF				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
				70648-26-9									
74		1,2,3,6,7,8-HxCDF				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
				57117-44-9									
75		1,2,3,7,8,9-HxCDF				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
				72918-21-9									
76		2,3,4,6,7,8-HxCDF				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
				60851-34-5									
77		1,2,3,4,6,7,8-HpCDF				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
				67562-39-4									
78		1,2,3,4,7,8,9-HpCDF				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
				55673-89-7									
79		OCDF				<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
				39001-02-0									
80		petrol (gasoline) petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**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							
81		diesel petroleum group									
				68334-30-5, 68476-34-6, 94114-59-7, 1159170-26-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
82		heavy/residual fuel oils petroleum group									
						<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
83		crude oils petroleum group									
						<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
84		kerosine petroleum group including kerosine (petroleum); kerosine (petroleum) hydrosulphurised; kerosine (petroleum) sweetened									
			232-366-4; 265-184-9; 294-799-5	8008-20-6; 64742-81-0; 91770-15-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
85		chloroform; trichloromethane									
		602-006-00-4	200-663-8	67-66-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<**LOD**
								Total:	1.28 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Soil concentrations too low to be considered flammable risk

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00141%)

Classification of sample: BH10

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

Sample details

Sample name:
BH10
Sample Depth:
0.50 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 03 * (Soil and stones containing hazardous substances)

Hazard properties

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

Hazard Statements hit:

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

Because of determinand:

zinc chromate: (compound conc.: 0.447%)

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

Because of determinand:

lead chromate: (Note 1 conc.: 0.187%)

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

Hazard Statements hit:

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

Because of determinands:

dicopper oxide; copper (I) oxide: (compound conc.: 0.239%)
lead chromate: (Note 1 conc.: 0.187%)
zinc chromate: (compound conc.: 0.447%)

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		455 mg/kg	1.32	600.748 mg/kg	0.0601 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		3.5 mg/kg	1.142	3.998 mg/kg	0.0004 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		44.8 mg/kg	1.462	65.478 mg/kg	0.00655 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		2120 mg/kg	1.126	2386.883 mg/kg	0.239 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	1870 mg/kg	1.56	2916.854 mg/kg	0.187 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		3 mg/kg	1.353	4.06 mg/kg	0.000406 %		
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		94.1 mg/kg	2.976	280.067 mg/kg	0.028 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
8		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				5.9	mg/kg	1.405	8.29	mg/kg	0.000829 %		
9		zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		1610	mg/kg	2.774	4466.376	mg/kg	0.447 %		
10		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
11		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8	mg/kg	1.923	<1.538	mg/kg	<0.000154 %		<**LOD**
12		boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1	mg/kg	3.22	3.22	mg/kg	0.000322 %		
13		pH			PH		7.3	pH		7.3	pH	7.3 pH		
14		phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
15		naphthalene	601-052-00-2	202-049-5	91-20-3		0.4	mg/kg		0.4	mg/kg	0.00004 %		
16		acenaphthylene		205-917-1	208-96-8		0.1	mg/kg		0.1	mg/kg	0.00001 %		
17		acenaphthene		201-469-6	83-32-9		0.2	mg/kg		0.2	mg/kg	0.00002 %		
18		fluorene		201-695-5	86-73-7		0.3	mg/kg		0.3	mg/kg	0.00003 %		
19		phenanthrene		201-581-5	85-01-8		1.1	mg/kg		1.1	mg/kg	0.00011 %		
20		anthracene		204-371-1	120-12-7		0.7	mg/kg		0.7	mg/kg	0.00007 %		
21		fluoranthene		205-912-4	206-44-0		22.2	mg/kg		22.2	mg/kg	0.00222 %		
22		pyrene		204-927-3	129-00-0		20.1	mg/kg		20.1	mg/kg	0.00201 %		
23		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		4.7	mg/kg		4.7	mg/kg	0.00047 %		
24		chrysene	601-048-00-0	205-923-4	218-01-9		5.1	mg/kg		5.1	mg/kg	0.00051 %		
25		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		2.1	mg/kg		2.1	mg/kg	0.00021 %		
26		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		1.8	mg/kg		1.8	mg/kg	0.00018 %		
27		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		2.3	mg/kg		2.3	mg/kg	0.00023 %		
28		indeno[123-cd]pyrene		205-893-2	193-39-5		1.1	mg/kg		1.1	mg/kg	0.00011 %		
29		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.2	mg/kg		0.2	mg/kg	0.00002 %		
30		benzo[ghi]perylene		205-883-8	191-24-2		1.2	mg/kg		1.2	mg/kg	0.00012 %		
31		benzene	601-020-00-8	200-753-7	71-43-2		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
32		toluene	601-021-00-3	203-625-9	108-88-3		<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
33		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<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									
34		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**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]									
35		TPH (C6 to C40) petroleum group				454	mg/kg		454	mg/kg	0.0454 %		
				TPH									
36		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		603-181-00-X	216-653-1	1634-04-4									
37		polychlorobiphenyls; PCB				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-039-00-4	215-648-1	1336-36-3									
38		asbestos				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**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									
39		beryllium { beryllium oxide }				<0.1	mg/kg	2.775	<0.278	mg/kg	<0.0000278 %		<**LOD**
		004-003-00-8	215-133-1	1304-56-9									
40		manganese { manganese sulphate }				<0.1	mg/kg	2.749	<0.275	mg/kg	<0.0000275 %		<**LOD**
		025-003-00-4	232-089-9	7785-87-7									
41		1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			203-458-1, 200-863-5	107-06-2, 75-34-3									
42		tetrachloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-028-00-4	204-825-9	127-18-4									
43		carbon tetrachloride; tetrachloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-008-00-5	200-262-8	56-23-5									
44		trichloroethylene; trichloroethene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-027-00-9	201-167-4	79-01-6									
45		vinyl chloride; chloroethylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-023-00-7	200-831-0	75-01-4									
46		1,1,1-trichloroethane; methyl chloroform				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-013-00-2	200-756-3	71-55-6									
47		1,1,2-trichloroethane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-014-00-8	201-166-9	79-00-5									
48		1,1-dichloroethylene; vinylidene chloride				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-025-00-8	200-864-0	75-35-4									
49		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**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]									
50		DDT (ISO); clofenotane (INN); dicophane; 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane; dichlorodiphenyltrichloroethane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-045-00-7	200-024-3	50-29-3									
51		chlordane (ISO); 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindan				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-047-00-8	200-349-0	57-74-9									
52		hexachlorocyclohexanes, including lindane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**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									
53		dieldrin (ISO)				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-049-00-9	200-484-5	60-57-1									

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
54		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	602-051-00-X	200-775-7	72-20-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
55		heptachlor (ISO); 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene	602-046-00-2	200-962-3	76-44-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
56		hexachlorobenzene	602-065-00-6	204-273-9	118-74-1		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
57		chlordecone (ISO); perchloropentacyclo[5,3,0,02,6,03,9,04,8]decan-5-one; decachloropentacyclo[5,2,1,02,6,03,9,05,8]decan-4-one	606-019-00-6	205-601-3	143-50-0		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
58		aldrin (ISO)	602-048-00-3	206-215-8	309-00-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
59		pentachlorobenzene	602-074-00-5	210-172-0	608-93-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
60		dodecachloropentacyclo[5.2.1.02,6.03,9.05,8]decane; mirex	602-077-00-1	219-196-6	2385-85-5		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
61		camphechlor (ISO); toxaphene	602-044-00-1	232-283-3	8001-35-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
62	●	hexabromobiphenyl		252-994-2	36355-01-8		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
63	●	2,3,7,8-TeCDD		217-122-7	1746-01-6		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
64	●	1,2,3,7,8-PeCDD			40321-76-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
65	●	1,2,3,4,7,8-HxCDD			39227-28-6		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
66	●	1,2,3,6,7,8-HxCDD			57653-85-7		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
67	●	1,2,3,7,8,9-HxCDD			19408-74-3		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
68	●	1,2,3,4,6,7,8-HpCDD			35822-46-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
69	●	OCDD			3268-87-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
70	●	2,3,7,8-TeCDF			51207-31-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
71	●	1,2,3,7,8-PeCDF			57117-41-6		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
72	●	2,3,4,7,8-PeCDF			57117-31-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
73	●	1,2,3,4,7,8-HxCDF			70648-26-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
74	●	1,2,3,6,7,8-HxCDF			57117-44-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
75	●	1,2,3,7,8,9-HxCDF			72918-21-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
76	●	2,3,4,6,7,8-HxCDF			60851-34-5		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
77	●	1,2,3,4,6,7,8-HpCDF			67562-39-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
78	●	1,2,3,4,7,8,9-HpCDF			55673-89-7		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
79	●	OCDF			39001-02-0		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<**LOD**
80	●	petrol (gasoline) petroleum group					<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**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									
81		diesel petroleum group											
				68334-30-5, 68476-34-6, 94114-59-7, 1159170-26-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
82		heavy/residual fuel oils petroleum group											
						<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
83		crude oils petroleum group											
						<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
84		kerosine petroleum group including kerosine (petroleum); kerosine (petroleum) hydrosulphurised; kerosine (petroleum) sweetened											
			232-366-4; 265-184-9; 294-799-5	8008-20-6; 64742-81-0; 91770-15-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
85		chloroform; trichloromethane											
		602-006-00-4	200-663-8	67-66-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
										Total:	1.021 %		

Key

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Soil concentrations too low to be considered flammable risk

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0454%)

Classification of sample: BH11

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

Sample details

Sample name:
BH11
Sample Depth:
1.50 m

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 0% No Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		550	mg/kg	1.32	726.179	mg/kg	0.0726 %		
2	cadmium { cadmium oxide }	048-002-00-0	215-146-2	1306-19-0		1	mg/kg	1.142	1.142	mg/kg	0.000114 %		
3	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		27	mg/kg	1.462	39.462	mg/kg	0.00395 %		
4	copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		451	mg/kg	1.126	507.776	mg/kg	0.0508 %		
5	lead { lead chromate }	082-004-00-2	231-846-0	7758-97-6	1	476	mg/kg	1.56	742.472	mg/kg	0.0476 %		
6	mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		4.4	mg/kg	1.353	5.955	mg/kg	0.000596 %		
7	nickel { nickel chromate }	028-035-00-7	238-766-5	14721-18-7		111	mg/kg	2.976	330.365	mg/kg	0.033 %		
8	selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				16	mg/kg	1.405	22.48	mg/kg	0.00225 %		
9	zinc { zinc chromate }	024-007-00-3	236-878-9	13530-65-9		296	mg/kg	2.774	821.147	mg/kg	0.0821 %		
10	cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
11	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<0.8	mg/kg	1.923	<1.538	mg/kg	<0.000154 %		<**LOD**
12	boron { diboron trioxide; boric oxide }	005-008-00-8	215-125-8	1303-86-2		1.8	mg/kg	3.22	5.796	mg/kg	0.00058 %		
13	pH			PH		7	pH		7	pH	7pH		
14	phenol	604-001-00-2	203-632-7	108-95-2		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
15	naphthalene	601-052-00-2	202-049-5	91-20-3		0.1	mg/kg		0.1	mg/kg	0.00001 %		

#		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		acenaphthylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8									
17		acenaphthene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9									
18		fluorene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7									
19		phenanthrene				1	mg/kg		1	mg/kg	0.0001 %		
			201-581-5	85-01-8									
20		anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7									
21		fluoranthene				1.6	mg/kg		1.6	mg/kg	0.00016 %		
			205-912-4	206-44-0									
22		pyrene				1.4	mg/kg		1.4	mg/kg	0.00014 %		
			204-927-3	129-00-0									
23		benzo[a]anthracene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-033-00-9	200-280-6	56-55-3									
24		chrysene				0.6	mg/kg		0.6	mg/kg	0.00006 %		
		601-048-00-0	205-923-4	218-01-9									
25		benzo[b]fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-034-00-4	205-911-9	205-99-2									
26		benzo[k]fluoranthene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-036-00-5	205-916-6	207-08-9									
27		benzo[a]pyrene; benzo[def]chrysene				0.5	mg/kg		0.5	mg/kg	0.00005 %		
		601-032-00-3	200-028-5	50-32-8									
28		indeno[123-cd]pyrene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-893-2	193-39-5									
29		dibenz[a,h]anthracene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
30		benzo[ghi]perylene				0.2	mg/kg		0.2	mg/kg	0.00002 %		
			205-883-8	191-24-2									
31		benzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-020-00-8	200-753-7	71-43-2									
32		toluene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
33		ethylbenzene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
34		xylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<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]									
35		TPH (C6 to C40) petroleum group				174	mg/kg		174	mg/kg	0.0174 %		
				TPH									
36		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
37		polychlorobiphenyls; PCB				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-039-00-4	215-648-1	1336-36-3									
38		asbestos				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<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									
39		beryllium { beryllium oxide }				<0.1	mg/kg	2.775	<0.278	mg/kg	<0.0000278 %		<LOD
		004-003-00-8	215-133-1	1304-56-9									
40		manganese { manganese sulphate }				<0.1	mg/kg	2.749	<0.275	mg/kg	<0.0000275 %		<LOD
		025-003-00-4	232-089-9	7785-87-7									

#		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									
41		1,1-dichloroethane and 1,2-dichloroethane (combined)				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			203-458-1, 200-863-5	107-06-2, 75-34-3									
42		tetrachloroethylene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-028-00-4	204-825-9	127-18-4									
43		carbon tetrachloride; tetrachloromethane				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-008-00-5	200-262-8	56-23-5									
44		trichloroethylene; trichloroethene				<0.01	mg/kg		<0.01	mg/kg	<0.000001 %		<**LOD**
		602-027-00-9	201-167-4	79-01-6									
45		vinyl chloride; chloroethylene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-023-00-7	200-831-0	75-01-4									
46		1,1,1-trichloroethane; methyl chloroform				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-013-00-2	200-756-3	71-55-6									
47		1,1,2-trichloroethane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-014-00-8	201-166-9	79-00-5									
48		1,1-dichloroethylene; vinylidene chloride				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-025-00-8	200-864-0	75-35-4									
49		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**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]									
50		DDT (ISO); clofenotane (INN); dicophane; 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane; dichlorodiphenyltrichloroethane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-045-00-7	200-024-3	50-29-3									
51		chlordane (ISO); 1,2,4,5,6,7,8,8-octachloro-3a,4,7,7a-tetrahydro-4,7-methanoindan				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-047-00-8	200-349-0	57-74-9									
52		hexachlorocyclohexanes, including lindane				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**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									
53		dieldrin (ISO)				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-049-00-9	200-484-5	60-57-1									
54		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				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-051-00-X	200-775-7	72-20-8									
55		heptachlor (ISO); 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-4,7-methanoindene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-046-00-2	200-962-3	76-44-8									
56		hexachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-065-00-6	204-273-9	118-74-1									
57		chlordecone (ISO); perchloropentacyclo[5,3,0,02,6,03,9,04,8]decan-5-one; decachloropentacyclo[5,2,1,02,6,03,9,05,8]decan-4-one				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		606-019-00-6	205-601-3	143-50-0									
58		aldrin (ISO)				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-048-00-3	206-215-8	309-00-2									
59		pentachlorobenzene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-074-00-5	210-172-0	608-93-5									
60		dodecachloropentacyclo[5.2.1.02,6.03,9.05,8]decane; mirex				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-077-00-1	219-196-6	2385-85-5									
61		camphechlor (ISO); toxaphene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
		602-044-00-1	232-283-3	8001-35-2									
62		hexabromobiphenyl				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<**LOD**
			252-994-2	36355-01-8									

#		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									
63		2,3,7,8-TeCDD	217-122-7	1746-01-6		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
64		1,2,3,7,8-PeCDD		40321-76-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
65		1,2,3,4,7,8-HxCDD		39227-28-6		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
66		1,2,3,6,7,8-HxCDD		57653-85-7		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
67		1,2,3,7,8,9-HxCDD		19408-74-3		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
68		1,2,3,4,6,7,8-HpCDD		35822-46-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
69		OCDD		3268-87-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
70		2,3,7,8-TeCDF		51207-31-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
71		1,2,3,7,8-PeCDF		57117-41-6		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
72		2,3,4,7,8-PeCDF		57117-31-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
73		1,2,3,4,7,8-HxCDF		70648-26-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
74		1,2,3,6,7,8-HxCDF		57117-44-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
75		1,2,3,7,8,9-HxCDF		72918-21-9		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
76		2,3,4,6,7,8-HxCDF		60851-34-5		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
77		1,2,3,4,6,7,8-HpCDF		67562-39-4		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
78		1,2,3,4,7,8,9-HpCDF		55673-89-7		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
79		OCDF		39001-02-0		<0.1	ng/kg		<1.0e-07	mg/kg	<1.0e-11 %		<LOD
80		petrol (gasoline) petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
81		diesel petroleum group		68334-30-5, 68476-34-6, 94114-59-7, 1159170-26-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
82		heavy/residual fuel oils petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
83		crude oils petroleum group				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
84		kerosine petroleum group including kerosine (petroleum); kerosine (petroleum) hydrosulphurised; kerosine (petroleum) sweetened	232-366-4; 265-184-9; 294-799-5	8008-20-6; 64742-81-0; 91770-15-9		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
85		chloroform; trichloromethane	200-663-8	67-66-3		<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		602-006-00-4								Total:	0.312 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous property to non hazardous because Soil concentrations too low to be considered flammable risk

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0174%)

Appendix A: Classifier defined and non GB MCL determinands

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

Description/Comments: Data from C&L Inventory Database
Data source: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **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

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

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

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

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

hexabromobiphenyl (EC Number: 252-994-2, CAS Number: 36355-01-8)

Description/Comments:
Data source: POP specific threshold from ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004).
Data source date: 01 Jul 2013
Hazard Statements: POP >= 0.005 %

2,3,7,8-TeCDD (EC Number: 217-122-7, CAS Number: 1746-01-6)

Description/Comments: 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=1)

1,2,3,7,8-PeCDD (CAS Number: 40321-76-4)

Description/Comments: 1,2,3,7,8-pentachlorodibenzo-p-dioxin
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=1)

1,2,3,4,7,8-HxCDD (CAS Number: 39227-28-6)

Description/Comments: 1,2,3,4,7,8-hexachlorodibenzo-p-dioxin
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.1)

- **1,2,3,6,7,8-HxCDD** (CAS Number: 57653-85-7)

Description/Comments: 1,2,3,6,7,8-hexachlorodibenzo-p-dioxin
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.1)

- **1,2,3,7,8,9-HxCDD** (CAS Number: 19408-74-3)

Description/Comments: 1,2,3,7,8,9-hexachlorodibenzo-p-dioxin
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.1)

- **1,2,3,4,6,7,8-HpCDD** (CAS Number: 35822-46-9)

Description/Comments: 1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.01)

- **OCDD** (CAS Number: 3268-87-9)

Description/Comments: octachlorodibenzo-p-dioxin
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.0003)

- **2,3,7,8-TeCDF** (CAS Number: 51207-31-9)

Description/Comments: 2,3,7,8-tetrachlorodibenzofuran
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.1)

- **1,2,3,7,8-PeCDF** (CAS Number: 57117-41-6)

Description/Comments: 1,2,3,7,8-pentachlorodibenzofuran
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.03)

- **2,3,4,7,8-PeCDF** (CAS Number: 57117-31-4)

Description/Comments: 2,3,4,7,8-pentachlorodibenzofuran
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.3)

- **1,2,3,4,7,8-HxCDF** (CAS Number: 70648-26-9)

Description/Comments: 1,2,3,4,7,8-hexachlorodibenzofuran
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.1)

- **1,2,3,6,7,8-HxCDF** (CAS Number: 57117-44-9)

Description/Comments: 1,2,3,6,7,8-hexachlorodibenzofuran
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.1)

- **1,2,3,7,8,9-HxCDF** (CAS Number: 72918-21-9)

Description/Comments: 1,2,3,7,8,9-hexachlorodibenzofuran
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.1)

- **2,3,4,6,7,8-HxCDF** (CAS Number: 60851-34-5)

Description/Comments: 2,3,4,6,7,8-hexachlorodibenzofuran
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.1)

1,2,3,4,6,7,8-HpCDF (CAS Number: 67562-39-4)

Description/Comments: 1,2,3,4,6,7,8-heptachlorodibenzofuran
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.01)

1,2,3,4,7,8,9-HpCDF (CAS Number: 55673-89-7)

Description/Comments: 1,2,3,4,7,8,9-heptachlorodibenzofuran
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.01)

OCDF (CAS Number: 39001-02-0)

Description/Comments: octachlorodibenzo[b,d]furan
Data source: ATP1 (Regulation (EU) 756/2010) to POPs Regulation (Regulation (EC) 850/2004)
Data source date: 24 Aug 2010
Hazard Statements: PCDD/PCDF (TEF=0.0003)

petrol (gasoline) petroleum group

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. 1; H224 , Skin Irrit. 2; H315 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , STOT SE 3; H336 , Asp. Tox. 1; H304 , Aquatic Chronic 2; H411

diesel petroleum group (CAS Number: 68334-30-5, 68476-34-6, 94114-59-7, 1159170-26-9)

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 , Skin Irrit. 2; H315 , Acute Tox. 4; H332 , Carc. 2; H351 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Aquatic Chronic 2; H411

heavy/residual fuel oils petroleum group

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: Muta. 1B; H340 , Carc. 1B; H350 , Acute Tox. 4; H332 , Repr. 2; H361d , STOT RE 2; H373 , Aquatic Chronic 2; H411

crude oils petroleum group

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. 2; H225 , Carc. 1B; H350 , Eye Irrit. 2; H319 , Asp. Tox. 1; H304 , STOT RE 2; H373 , STOT SE 3; H336 , Aquatic Chronic 2; H411

kerosine petroleum group including kerosine (petroleum); kerosine (petroleum) hydrosulphurised; kerosine (petroleum) sweetened (EC Number: 232-366-4; 265-184-9; 294-799-5, CAS Number: 8008-20-6; 64742-81-0; 91770-15-9)

Description/Comments: Review of ECHA Registered Substances database; Concawe report: hazard classification and labelling of petroleum substances in the European Economic Area - 2012; REACH compliant SDS from Total, Petrobras; Petrochem; Shell; ESS
Data source: http://echa.europa.eu/information-on-chemicals/registered-substances; Hazard classification and labelling of petroleum substances in the European Economic Area - 2012 (CONCAWE); SDS: company websites
Data source date: 21 Jan 2014
Hazard Statements: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Asp. Tox. 1; H304 , Aquatic Chronic 2; H411

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

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

cadmium {cadmium oxide}

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

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

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

copper {dicopper oxide; copper (I) oxide}

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

lead {lead chromate}

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

mercury {mercury dichloride}

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

nickel {nickel chromate}

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

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

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

zinc {zinc chromate}

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

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

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

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

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

boron {diboron trioxide; boric oxide}

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

beryllium {beryllium oxide}

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

manganese {manganese sulphate}

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

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021
HazWasteOnline Classification Engine Version: 2022.263.5340.9974 (20 Sep 2022)
HazWasteOnline Database: 2022.263.5340.9974 (20 Sep 2022)

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

CC GEOTECHNICAL LIMITED
Consulting Geotechnical and Geoenvironmental Engineers

WAC Analysis			Landfill Waste Acceptance Criteria Limits*					
Sample Date:	25/08/2022		**Inert Waste Landfill**		**Stable Non-reactive Hazardous waste in non-hazardous Landfill**		**Hazardous Waste Landfill**	
Sample ID:	BH08							
Depth (m)	1							
Site:								
Determinand	**Input**							
Total Organic Carbon	21		3	Below	5	Below	6	Below
Loss on Ignition	14.5		--	Below	--	Below	10	Below
Total BTEX	< 0.01		6	Below	--	Below	--	Below
Total PCBs (7 congeners)	< 0.03		1	Below	--	Below	--	Below
TPH Total WAC	< 5		500	Below	--	Below	--	Below
Total (of 17) PAHs	50		100	Below	--	Below	--	Below
pH	7.6		--	Below	6	Below	--	Below
Acid Neutralisation Capacity	< 0.1		--		To evaluate		To evaluate	
Eluate Analysis			**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg**					
Arsenic	1.030		0.5	Below	2	Below	25	Below
Barium	0.100		20	Below	100	Below	300	Below
Cadmium	< 0.01		0.04	Below	1	Below	5	Below
Chromium	< 0.05		0.5	Below	10	Below	70	Below
Copper	< 0.05		2	Below	50	Below	100	Below
Mercury	< 0.01		0.01	Below	0.2	Below	2	Below
Molybdenum	0.050		0.5	Below	10	Below	30	Below
Nickel	< 0.05		0.4	Below	10	Below	40	Below
Lead	< 0.05		0.5	Below	10	Below	50	Below
Antimony	< 0.05		0.06	Below	0.7	Below	5	Below
Selenium	< 0.05		0.1	Below	0.5	Below	7	Below
Zinc	0.130		4	Below	50	Below	200	Below
Chloride	< 50		800	Below	15000	Below	25000	Below
Fluoride	36		10	Below	150	Below	500	Below
Sulphate	150		1000	Below	20000	Below	50000	Below
Total Dissolved Solids	803		4000	Below	60000	Below	100000	Below
Phenol Index	< 0.10		1	Below	-	Below	-	Below
Dissolved Organic Carbon	85.000		500	Below	800	Below	1000	Below
Leach Test Information								
pH								
Conductivity (uS/cm)								
Dry mass of test portion (g)								
Dry Matter (%)								
Moisture (%)								
Eluent Volume (ml)								

Asbestos Detection
No Asbestos Detected

Hazwaste Online Waste Classification
Hazardous Waste

Landfill**
Stable Non-Reactive

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.

**It should be noted that the final decision on waste classification is at the discretion of the accepting landfill, and it is recommended that consultation with landfill operators be undertaken during the development of the waste management plan.

CC GEOTECHNICAL LIMITED
Consulting Geotechnical and Geoenvironmental Engineers

WAC Analysis			Landfill Waste Acceptance Criteria Limits*					
Sample Date:	25/08/2022		**Inert Waste Landfill**		**Stable Non-reactive Hazardous waste in non-hazardous Landfill**		**Hazardous Waste Landfill**	
Sample ID:	BH09							
Depth (m)	0.5							
Site:								
Determinand	**Input**							
Total Organic Carbon	13		3	Below	5	Below	6	Below
Loss on Ignition	10.3		--	Below	--	Below	10	Below
Total BTEX	< 0.01		6	Below	--	Below	--	Below
Total PCBs (7 congeners)	< 0.03		1	Below	--	Below	--	Below
TPH Total WAC	< 5		500	Below	--	Below	--	Below
Total (of 17) PAHs	6		100	Below	--	Below	--	Below
pH	7.8		--	Below	6	Below	--	Below
Acid Neutralisation Capacity	< 0.1		--		To evaluate		To evaluate	
Eluate Analysis			**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg**					
Arsenic	0.790		0.5	Below	2	Below	25	Below
Barium	0.180		20	Below	100	Below	300	Below
Cadmium	< 0.01		0.04	Below	1	Below	5	Below
Chromium	< 0.05		0.5	Below	10	Below	70	Below
Copper	< 0.05		2	Below	50	Below	100	Below
Mercury	< 0.01		0.01	Below	0.2	Below	2	Below
Molybdenum	0.050		0.5	Below	10	Below	30	Below
Nickel	< 0.05		0.4	Below	10	Below	40	Below
Lead	< 0.05		0.5	Below	10	Below	50	Below
Antimony	< 0.05		0.06	Below	0.7	Below	5	Below
Selenium	< 0.05		0.1	Below	0.5	Below	7	Below
Zinc	0.060		4	Below	50	Below	200	Below
Chloride	< 50		800	Below	15000	Below	25000	Below
Fluoride	12		10	Below	150	Below	500	Below
Sulphate	82		1000	Below	20000	Below	50000	Below
Total Dissolved Solids	319		4000	Below	60000	Below	100000	Below
Phenol Index	< 0.10		1	Below	-	Below	-	Below
Dissolved Organic Carbon	82.000		500	Below	800	Below	1000	Below
Leach Test Information								
pH								
Conductivity (uS/cm)								
Dry mass of test portion (g)								
Dry Matter (%)								
Moisture (%)								
Eluent Volume (ml)								

Asbestos Detection
No Asbestos Detected

Hazwaste Online Waste Classification
Hazardous Waste

Landfill**
Stable Non-Reactive

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.

**It should be noted that the final decision on waste classification is at the discretion of the accepting landfill, and it is recommended that consultation with landfill operators be undertaken during the development of the waste management plan.

CC GEOTECHNICAL LIMITED
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WAC Analysis			Landfill Waste Acceptance Criteria Limits*					
Sample Date:	25/08/2022		**Inert Waste Landfill**		**Stable Non-reactive Hazardous waste in non-hazardous Landfill**		**Hazardous Waste Landfill**	
Sample ID:	BH10							
Depth (m)	0.5							
Site:								
Determinand	**Input**							
Total Organic Carbon	29		3	Below	5	Below	6	Below
Loss on Ignition	16.2		--	Below	--	Below	10	Below
Total BTEX	< 0.01		6	Below	--	Below	--	Below
Total PCBs (7 congeners)	< 0.03		1	Below	--	Below	--	Below
TPH Total WAC	11		500	Below	--	Below	--	Below
Total (of 17) PAHs	64		100	Below	--	Below	--	Below
pH	7.3		--	Below	6	Below	--	Below
Acid Neutralisation Capacity	< 0.1		--		To evaluate		To evaluate	
Eluate Analysis			**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg**					
Arsenic	< 0.05		0.5	Below	2	Below	25	Below
Barium	0.910		20	Below	100	Below	300	Below
Cadmium	< 0.01		0.04	Below	1	Below	5	Below
Chromium	< 0.05		0.5	Below	10	Below	70	Below
Copper	< 0.05		2	Below	50	Below	100	Below
Mercury	< 0.01		0.01	Below	0.2	Below	2	Below
Molybdenum	< 0.05		0.5	Below	10	Below	30	Below
Nickel	< 0.05		0.4	Below	10	Below	40	Below
Lead	< 0.05		0.5	Below	10	Below	50	Below
Antimony	< 0.05		0.06	Below	0.7	Below	5	Below
Selenium	< 0.05		0.1	Below	0.5	Below	7	Below
Zinc	0.370		4	Below	50	Below	200	Below
Chloride	< 50		800	Below	15000	Below	25000	Below
Fluoride	< 10		10	Below	150	Below	500	Below
Sulphate	283		1000	Below	20000	Below	50000	Below
Total Dissolved Solids	551		4000	Below	60000	Below	100000	Below
Phenol Index	< 0.10		1	Below	-	Below	-	Below
Dissolved Organic Carbon	89.000		500	Below	800	Below	1000	Below
Leach Test Information								
pH								
Conductivity (uS/cm)								
Dry mass of test portion (g)								
Dry Matter (%)								
Moisture (%)								
Eluent Volume (ml)								

Asbestos Detection
No Asbestos Detected

Hazwaste Online Waste Classification
Hazardous Waste

Landfill**
Stable Non-Reactive

Results are expressed on a dry weight basis, after correction for moisture content where applicable

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WAC Analysis			Landfill Waste Acceptance Criteria Limits*					
Sample Date:	25/08/2022		**Inert Waste Landfill**		**Stable Non-reactive Hazardous waste in non-hazardous Landfill**		**Hazardous Waste Landfill**	
Sample ID:	BH11							
Depth (m)	1.5							
Site:								
Determinand	**Input**							
Total Organic Carbon	26		3	Below	5	Below	6	Below
Loss on Ignition	22.3		--	Below	--	Below	10	Below
Total BTEX	< 0.01		6	Below	--	Below	--	Below
Total PCBs (7 congeners)	< 0.03		1	Below	--	Below	--	Below
TPH Total WAC	< 5		500	Below	--	Below	--	Below
Total (of 17) PAHs	7		100	Below	--	Below	--	Below
pH	7		--	Below	6	Below	--	Below
Acid Neutralisation Capacity	< 0.1		--		To evaluate		To evaluate	
Eluate Analysis			**Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg**					
Arsenic	0.590		0.5	Below	2	Below	25	Below
Barium	0.080		20	Below	100	Below	300	Below
Cadmium	< 0.01		0.04	Below	1	Below	5	Below
Chromium	< 0.05		0.5	Below	10	Below	70	Below
Copper	< 0.05		2	Below	50	Below	100	Below
Mercury	< 0.01		0.01	Below	0.2	Below	2	Below
Molybdenum	< 0.05		0.5	Below	10	Below	30	Below
Nickel	< 0.05		0.4	Below	10	Below	40	Below
Lead	< 0.05		0.5	Below	10	Below	50	Below
Antimony	0.210		0.06	Below	0.7	Below	5	Below
Selenium	< 0.05		0.1	Below	0.5	Below	7	Below
Zinc	< 0.05		4	Below	50	Below	200	Below
Chloride	< 50		800	Below	15000	Below	25000	Below
Fluoride	27		10	Below	150	Below	500	Below
Sulphate	193		1000	Below	20000	Below	50000	Below
Total Dissolved Solids	958		4000	Below	60000	Below	100000	Below
Phenol Index	< 0.10		1	Below	-	Below	-	Below
Dissolved Organic Carbon	81.000		500	Below	800	Below	1000	Below
Leach Test Information								
pH								
Conductivity (uS/cm)								
Dry mass of test portion (g)								
Dry Matter (%)								
Moisture (%)								
Eluent Volume (ml)								

Asbestos Detection
No Asbestos Detected

Hazwaste Online Waste Classification
Non-Hazardous Waste

Landfill**
Inert

Results are expressed on a dry weight basis, after correction for moisture content where applicable

* Stated limits are for guidance only, and not for conformity assessment.

**It should be noted that the final decision on waste classification is at the discretion of the accepting landfill, and it is recommended that consultation with landfill operators be undertaken during the development of the waste management plan.

APPENDIX G

ENGINEERING TEST LAB REPORT

Units 1 & 2
Deltic Place
Deltic Way
Knowsley Industrial Estate
Liverpool
L33 7BU

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LABORATORY REPORT

CONTRACT NUMBER: CCG-C-22-13352

CONTRACT TITLE: FERALCO ADDITIONAL WORKS

CLIENT: ADDISONS

DATE RECEIVED: 30/08/22
DATE COMMENCED: 30/08/22
DATE COMPLETED: 08/09/22
REPORT DATE: 08/09/22

Test Description	Qty
Determination of Moisture Content BS 1377-2:1990 (a)	6
Determination of Liquid & Plastic Limits BS 1377-2:1990 (a)	6

Notes: Observations and interpretations are not accredited by UKAS
All testing undertaken at laboratory permanent facilities
# denotes non-accredited test
a denotes UKAS accredited test
s denotes test undertaken by approved subcontractor
Test results only relate to the samples tested

Approved Signatories: Chris Bolan (Managing Director) – Daniel Kerfoot (Laboratory Manager)

Registered in England & Wales, Company No. 5085241. Head Office: Unit 1, Deltic Place, Deltic Way, Knowsley Industrial Estate, Liverpool, L33 7BU

SUMMARY OF LABORATORY SOIL TEST RESULTS

BH / TP / WS Number	Sample Type	Depth From (m)	Depth To (m)	Moisture Content (%)	Bulk Density (Mg/m³)	Dry Density (Mg/m³)	Shear Strength (kN/m²)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 0.425mm (%)	Soil Classification	UKAS accredited test (Y/N)	Description / Test Method Samples described in accordance with BS EN ISO 14688-2 2004
BH08	WS	1.90	1.90	23	-	-	-	36	18	18	97	CI	Y	Dark brown slightly sandy silty organic CLAY. (BS1377Pt2:3.2,4.4,5)
BH09	WS	1.90	1.90	38	-	-	-	37	19	18	97	CI	Y	Dark brown slightly sandy silty organic CLAY. (BS1377Pt2:3.2,4.4,5)
BH10	WS	3.20	3.20	13	-	-	-	30	13	17	84	CL	Y	Brown slightly sandy slightly gravelly silty friable CLAY. Gravel is fine to medium subangular to subrounded mudstone. (BS1377Pt2:3.2,4.4,5)
BH10	WS	4.20	4.20	12	-	-	-	30	13	17	96	CL	Y	Brown slightly sandy slightly gravelly silty friable CLAY. Gravel is fine to medium subangular to subrounded mudstone. (BS1377Pt2:3.2,4.4,5)
BH11	WS	2.00	2.00	29	-	-	-	49	25	24	98	CI	Y	Greyish brown slightly sandy silty CLAY. (BS1377Pt2:3.2,4.4,5)
BH11	WS	3.20	3.20	17	-	-	-	30	11	19	86	CL	Y	Brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to medium subangular to subrounded mudstone. (BS1377Pt2:3.2,4.4,5)

SITE: FERALCO ADDITIONAL WORKS (CCG-C-22-13352) DATE: 08.09.22

CLIENT: ADDISON

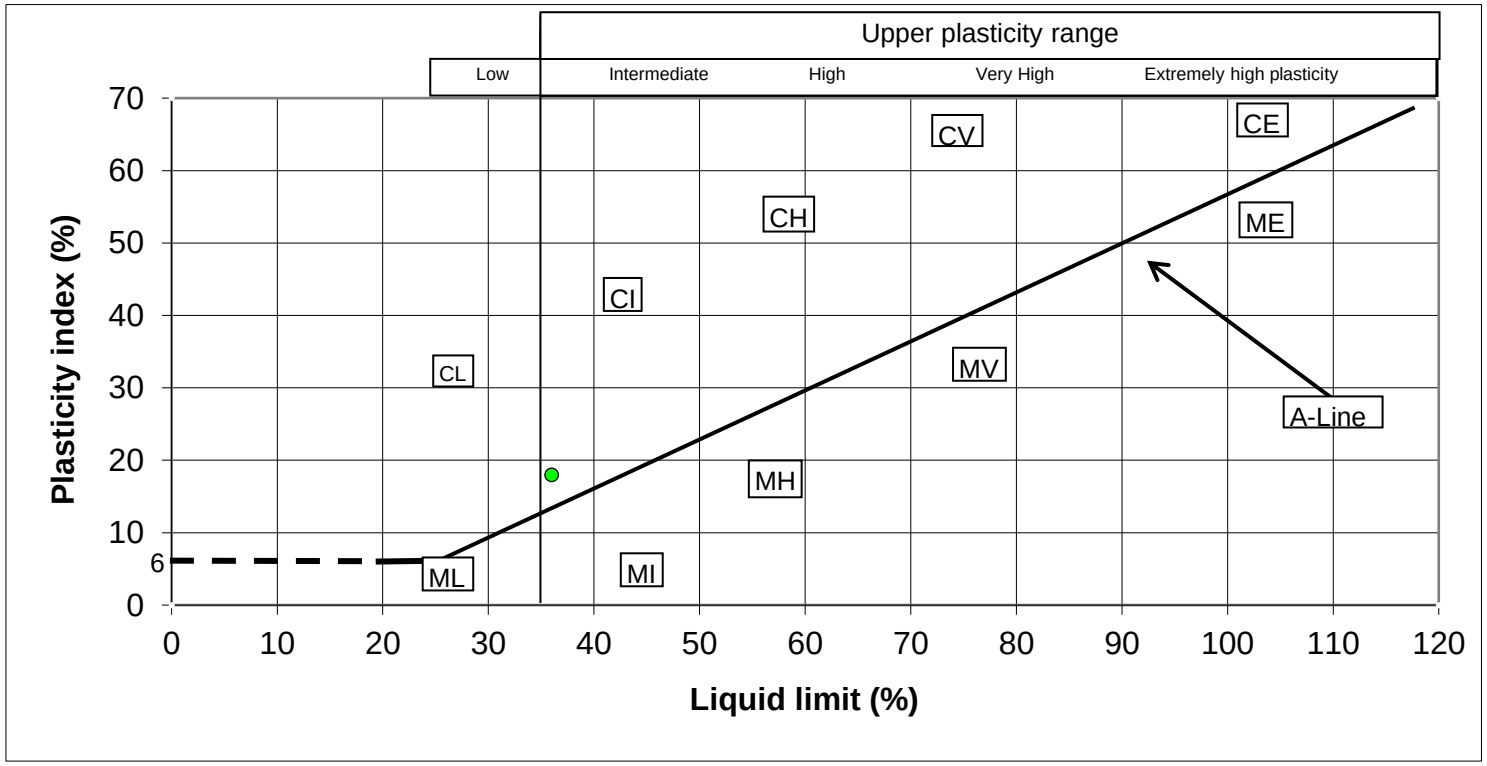
UKAS TESTING 4514

Key:- BD = Bulk Disturbed; SD = Small Disturbed; U100 = Undisturbed 100mm; WS = Window Sample
CL = Low Plasticity; CI = Intermediate; CH = High; CV = Very high; CE = Extremely high; NP = Non-plastic
(* Denotes Hand Shear Vane test result)
Sample description not accredited by UKAS

ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line , CLAY,C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
BH08	1.90	36.0	18.0

UKAS TESTING
4514

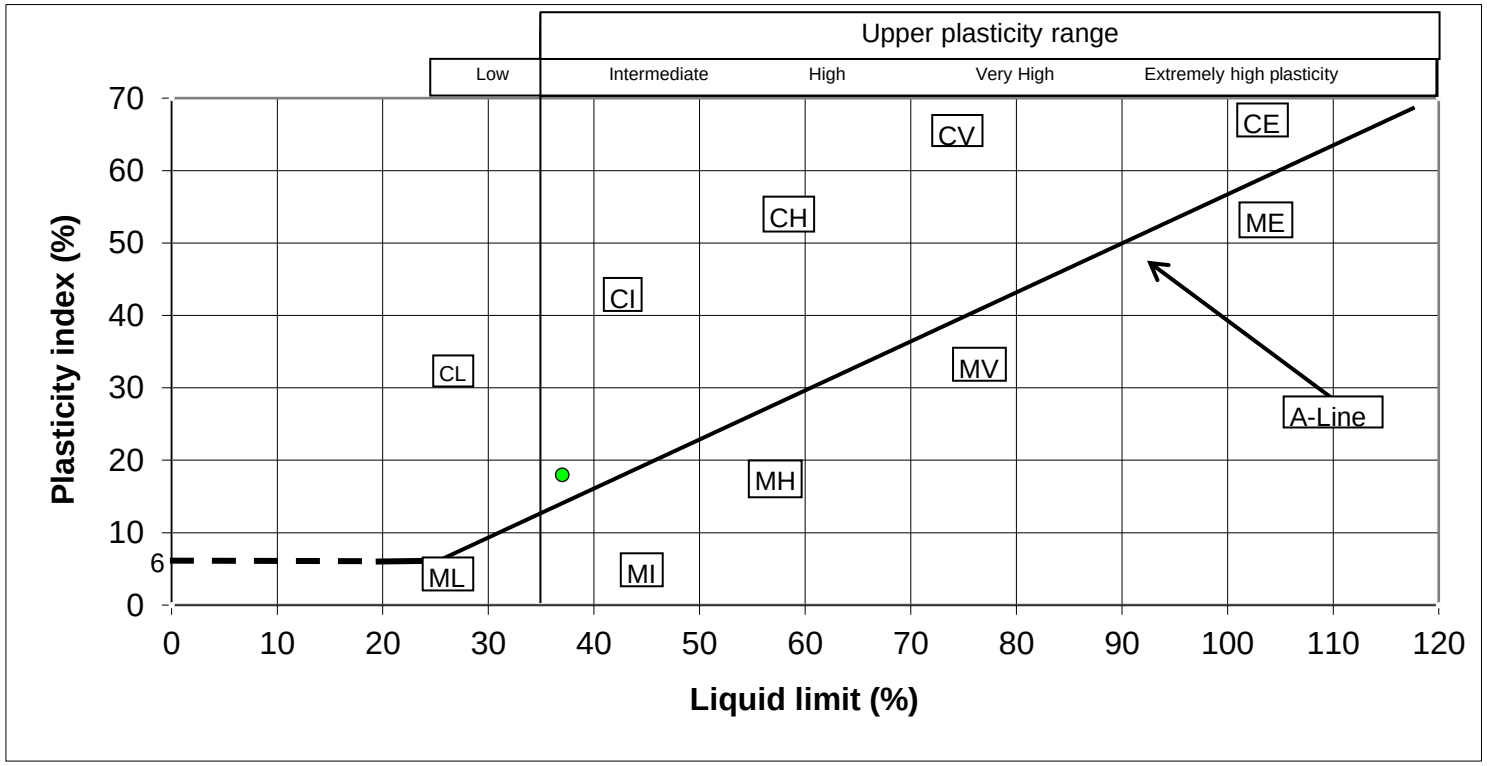
APPROVED BY	DK

CLIENT: ADDISONS	SITE: FERALCO ADDITIONAL WORKS (CCG-C-22-13352)

ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line , CLAY,C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
BH09	1.90	37.0	18.0

UKAS TESTING
4514

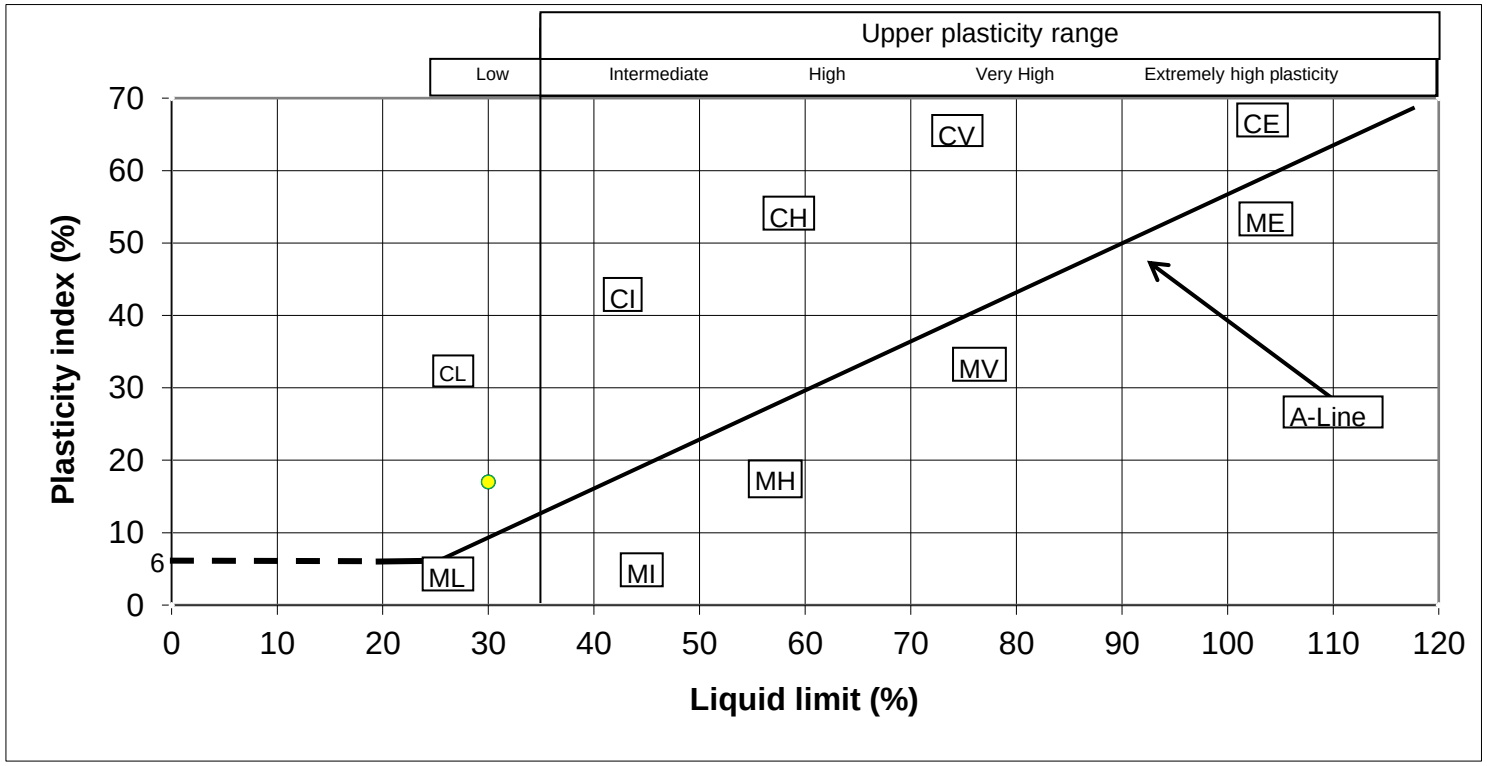
APPROVED BY	DK

CLIENT: ADDISONS	SITE: FERALCO ADDITIONAL WORKS (CCG-C-22-13352)

ATTERBERG TEST RESULT SHEET

BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line , CLAY,C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
BH10	3.20	30.0	17.0
BH10	4.20	30.0	17.0

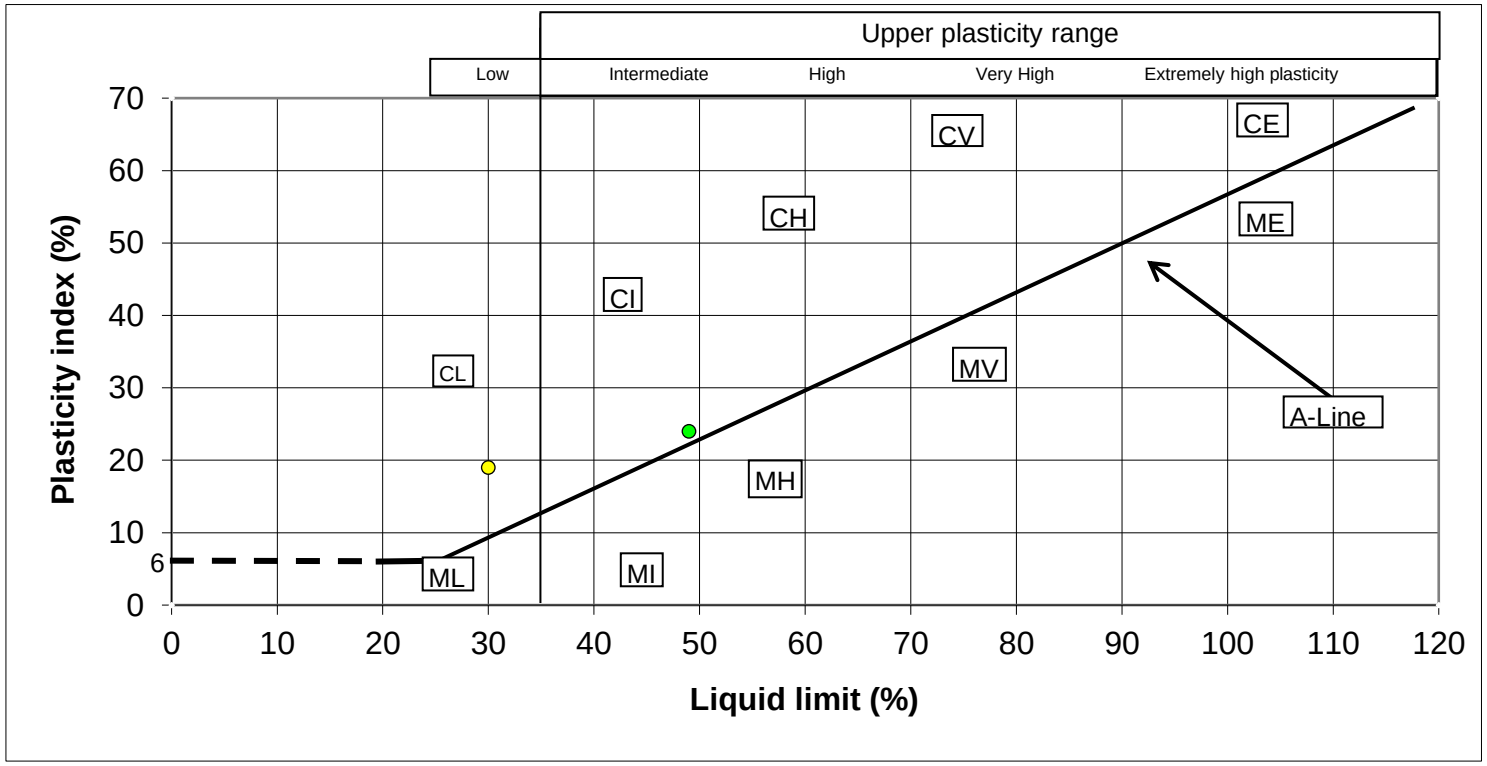
UKAS TESTING
4514

APPROVED BY	DK

CLIENT: ADDISONS	SITE: FERALCO ADDITIONAL WORKS (CCG-C-22-13352)

ATTERBERG TEST RESULT SHEET
BS 1377:Part 2:1990:cl 4.4,5

SILT (M-SOIL), M plots below A-Line , CLAY,C, plots above A-Line, M and C may be combined as FINE SOIL, F.



BH	Sample Depth	Liquid limit	Plasticity index
BH11	2.00	49.0	24.0
BH11	3.20	30.0	19.0

UKAS TESTING
4514

APPROVED BY	DK

CLIENT: ADDISONS	SITE: FERALCO ADDITIONAL WORKS (CCG-C-22-13352)

APPENDIX H

NOTES ON LIMITATIONS

Notes on Limitations
For
Geoenvironmental and Geotechnical Consultancy Services

General

This document has been prepared by CC GEOTECHNICAL LTD within the terms of the contract, scope of work, and resources agreed in writing with the client. The limitations of liability of CC GEOTECHNICAL LTD for the contents of this document have been agreed with the Client, as set out in the terms and conditions of offer and related contract documentation.

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The findings and opinions provided in this document are made in good faith and are subject to the limitations imposed by employing site assessment methods and techniques, appropriate to the time of investigation and within the limitations and constraints defined in this document.

The findings and opinions are relevant to the dates when the assessment was undertaken, but should not necessarily be relied upon to represent conditions at a substantially later date. In particular, seasonal groundwater levels, with the effects of precipitation, may affect the conditions found during the investigation. The report should be read in conjunction with the further Notes on Limitations included in Appendix A.

Where opinions expressed in this report are based on current available guidance and legislation, no liability can be accepted by CC GEOTECHNICAL LTD for the effects of any future changes to such guidelines and legislation. Additional information, improved practices, new guidance, changes in legislation, or amendments to design proposals, may necessitate this report having to be reviewed in whole or in part after that date. Opinions and interpretations are not accredited by UKAS.

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1. the consequences of this document being used for any purpose or project other than for which it was commissioned

and/or

2. the consequences of use of this document by any party with whom an agreement has not been executed.

Phase I Environmental Audits / Desk Studies

The work undertaken to provide the basis of a Phase 1 Desk Study report comprises a study of available documented information from a variety of sources (including the client), together with (where appropriate) a brief walk over inspection of the site and meetings and discussions with relevant authorities and other interested parties. The opinions given in a Desk Study report have been dictated by finite data on which they are based and are relevant only to the purpose for which the report was commissioned. The information reviewed should not be considered exhaustive and has been accepted in good faith as providing true and representative data pertaining to site conditions. Should additional information become available which may affect the opinions expressed in the report, CC GEOTECHNICAL LTD reserves the right to review such information and to modify the opinions accordingly.

It should be noted that any risks identified in this report are perceived risks based on the information reviewed; actual risks can only be assessed following a physical investigation of the site.

Phase II Environmental Audits

The investigation of the site has been carried out with the intention of providing sufficient information concerning the type and degree of contamination, and ground and groundwater conditions to allow a reasonable risk assessment to be made. The objectives of the investigation have been limited to establishing the risks associated to potential human targets, building materials, the environment (including adjacent land), and surface and groundwater.

The amount of exploratory work and chemical testing undertaken may have been restricted by the timescale available, and the locations of the exploratory holes may have been restricted to areas unoccupied by the building(s) on the site, and further restricted by the existence of buried services. A more comprehensive investigation may be required if the site is to be redeveloped as, in addition to risk assessment, a number of important engineering and environmental issues may need to be resolved.

For those reasons, if costs have been included in relation to site remediation these must be considered as tentative only and must, in any event, be confirmed by a qualified quantity surveyor.

The exploratory holes undertaken, investigate only a small volume of the ground in relation to the size of the site, and can only provide a general indication of site conditions. The number of sampling points and the methods of sampling and testing do not preclude the existence of localised “hotspots” of contamination where concentrations may be significantly higher than those actually encountered.

Geoenvironmental Ground Investigations

The investigation of the site has been carried out to provide sufficient information within the agreed scope of the investigation, under the general headings of type and degree of contamination, geotechnical characteristics, and ground and groundwater conditions, to provide a reasonable assessment of the environmental risks together with engineering and development implications.

If costs have been included in relation to the site remediation, these must be confirmed by a qualified quantity surveyor.

The exploratory holes undertaken, investigate only a small volume of the ground in relation to the size of the site, and can only provide a general indication of the site conditions. The opinions provided and recommendations given in this report are based on the ground conditions apparent at the site of each of the exploratory holes. There may be ground conditions present on the site which have not been disclosed by this investigation, and which have therefore not been taken into account in this report.

The comments made on groundwater conditions are based on observations made at the time that site work was carried out. It should be noted that groundwater levels will vary owing to seasonal, tidal, weather, or other effects.

The risk assessment and opinions provided, inter alia, take into consideration currently available guidance relating to acceptable contamination concentrations; no liability can be accepted for the retrospective effects of any future changes or amendments to these values.